



STIC Search Report

Biotech-Chem Library

STIC Database Tracking Number: 188266

TO: Nita M Minnifield
Location: rem-3c01/3c18
Art Unit: 1645
Wednesday, May 10, 2006
Case Serial Number: 08/170344

From: Kristine Hensle
Location: Biotech-Chem Library
REM-1B69
Phone: (571)272-4161

Kristine.Hensle@uspto.gov

Search Notes

Examiner Minnifield,

See attached results. This packet is part 4 of 8.

If you have any questions about this search feel free to contact me at any time.

Thank you for using STIC search services!

Kristine Hensle
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OM protein - protein search, using SW model

Run on: May 5, 2006, 03:13:35 ; Search time 21 Seconds
(without alignments)
35.432 Million cell updates/sec

Title: US-08-170-344-30
Perfect score: 44
Sequence: 1 TLQDVLHL 9

Scoring table: BIOSUM62
Gapop 10.0, Gapext 0.5

Searched: 572060 seqs, 82675679 residues

Total number of hits satisfying chosen parameters: 572060

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 1000 summaries

Database :
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2: /cgn2_6/ptodata/1/1aa/6_COMB.pep:*
3: /cgn2_6/ptodata/1/1aa/H_COMB.pep:*
4: /cgn2_6/ptodata/1/1aa/PCITUS_COMB.pep:*
5: /cgn2_6/ptodata/1/1aa/RE_COMB.pep:*
6: /cgn2_6/ptodata/1/1aa/Backfile1.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	length	ID	Description
1	44	100.0	9	US-09-124-671-10	Sequence 10, Appl
2	44	100.0	20	US-09-794-529B-14	Sequence 14, Appl
3	44	100.0	20	US-09-794-529B-15	Sequence 15, Appl
4	44	100.0	20	US-09-794-517A-14	Sequence 14, Appl
5	44	100.0	20	US-09-794-517A-15	Sequence 15, Appl
6	44	100.0	20	US-09-011-645B-14	Sequence 14, Appl
7	44	100.0	20	US-09-011-645B-15	Sequence 15, Appl
8	44	100.0	20	US-09-794-832-14	Sequence 14, Appl
9	44	100.0	20	US-09-794-832-15	Sequence 15, Appl
10	44	100.0	20	US-09-680-806A-14	Sequence 14, Appl
11	44	100.0	20	US-09-680-806A-15	Sequence 15, Appl
12	44	100.0	20	US-09-552-868-14	Sequence 14, Appl
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16	44	100.0	30	US-08-934-915-61	Sequence 61, Appl
17	44	100.0	227	US-09-485-885-16	Sequence 16, Appl
18	44	100.0	227	US-09-485-885-19	Sequence 19, Appl
19	44	100.0	272	US-08-117-083-13	Sequence 13, Appl
20	44	100.0	383	US-09-485-885-23	Sequence 23, Appl
21	37	84.1	1003	US-09-252-991A-24069	Sequence 24069, A
22	36	81.8	42	US-09-830-807-7	Sequence 7, Appl
23	36	81.8	579	US-08-851-567B-51	Sequence 51, Appl
24	36	81.8	715	US-09-489-039A-10710	Sequence 10710, A
25	36	81.8	2516	US-08-851-567B-47	Sequence 47, Appl
26	36	81.8	2516	US-09-817-514A-2	Sequence 2, Appl
27	36	81.8	2522	US-09-251-645-13	Sequence 13, Appl

28	79.5	223	2	US-09-830-230A-716	Sequence 716, App
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30	77.3	573	2	US-08-851-567B-55	Sequence 55, Appl
31	77.3	2504	2	US-08-851-567B-12	Sequence 12, Appl
32	77.3	2504	2	US-09-817-514A-8	Sequence 8, Appl
33	75.0	82	2	US-09-270-767-4581.3	Sequence 4581.3, A
34	75.0	96	2	US-09-513-999C-5998	Sequence 5998, Ap
35	75.0	319	2	US-09-538-092-1255	Sequence 243, App
36	75.0	351	2	US-09-270-767-44068	Sequence 1256, Ap
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38	75.0	504	2	US-09-252-991A-26180	Sequence 26180, A
39	75.0	700	2	US-09-543-681A-6902	Sequence 6902, Ap
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56	70.5	10	2	US-10-365-908-69	Sequence 69, Appl
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58	70.5	19	2	US-10-011-749-50	Sequence 27046, A
59	70.5	143	2	US-09-252-991A-27046	Sequence 27046, A
60	70.5	168	2	US-09-270-767-32894	Sequence 32894, A
61	70.5	375	2	US-09-000-094-42	Sequence 22, Appl
62	70.5	375	2	US-10-011-749-22	Sequence 22, Appl
63	70.5	404	2	US-09-489-039A-14292	Sequence 14292, A
64	70.5	418	2	US-09-252-991A-17769	Sequence 17769, A
65	70.5	438	2	US-09-830-230A-18	Sequence 18, Appl
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76	70.5	601	2	US-09-347-483-7	Sequence 7, Appl
77	70.5	601	2	US-09-347-483-10	Sequence 10, Appl
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79	70.5	764	2	US-09-585-858-15	Sequence 15, Appl
80	70.5	764	2	US-10-270-878-15	Sequence 15, Appl
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86	68.2	120	2	US-09-931-381A-12	Sequence 12, Appl
87	68.2	120	2	US-09-898-751A-14	Sequence 14, Appl
88	68.2	164	2	US-09-898-751A-8	Sequence 8, Appl
89	68.2	170	2	US-09-902-540-10888	Sequence 10888, A
90	68.2	200	2	US-09-248-796A-16251	Sequence 16251, A
91	68.2	234	2	US-09-489-039A-9787	Sequence 9787, Ap
92	68.2	262	2	US-09-252-991A-22061	Sequence 22061, A
93	68.2	262	2	US-08-936-168A-477	Sequence 477, App
94	68.2	265	2	US-09-489-039A-10393	Sequence 10393, A
95	68.2	265	2	US-09-134-001C-4788	Sequence 4788, Ap
96	68.2	275	2	US-09-248-796A-35216	Sequence 35216, A
97	68.2	309	2	US-09-270-767-43991	Sequence 43991, A
98	68.2	319	2	US-08-635-866C-211	Sequence 211, App
99	68.2	319	2	US-08-974-699C-211	Sequence 211, App
100	68.2	325	2	US-09-602-787A-260	Sequence 260, App

101	30	68.2	326	1	US-08-786-606-8	Sequence 8, Appl1	174	29	65.9	400	2	US-09-710-279-1056	Sequence 1056, Ap
102	30	68.2	326	2	US-09-540-226-3425	Sequence 3425, Ap	175	29	65.9	407	2	US-09-134-001C-3399	Sequence 3399, Ap
103	30	68.2	326	3	US-09-538-032-1068	Sequence 1068, Ap	176	29	65.9	447	2	US-09-543-681A-8095	Sequence 8095, Ap
104	30	68.2	333	2	US-10-010-084-3	Sequence 3, Appl1	177	29	65.9	445	2	US-09-543-681A-8095	Sequence 4337, Ap
105	30	68.2	339	2	US-09-489-039A-7231	Sequence 7231, Ap	178	29	65.9	499	2	US-09-248-796A-20023	Sequence 20023, A
106	30	68.2	344	2	US-09-538-032-1069	Sequence 1069, Ap	179	29	65.9	518	2	US-09-270-767-41059	Sequence 41059, A
107	30	68.2	350	2	US-09-602-787A-258	Sequence 258, App	180	29	65.9	548	2	US-09-370-767-56775	Sequence 56275, A
108	30	68.2	389	2	US-09-949-016-6442	Sequence 6442, Ap	181	29	65.9	541	2	US-09-134-001C-4481	Sequence 4481, Ap
109	30	68.2	414	2	US-09-134-000C-6263	Sequence 6263, Ap	182	29	65.9	573	2	US-09-252-991A-25968	Sequence 25968, A
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111	30	68.2	417	2	US-09-949-016-10594	Sequence 10594, A	184	29	65.9	604	2	US-09-586-935-3	Sequence 3, Appl1
112	30	68.2	418	2	US-09-107-532A-6158	Sequence 6158, Ap	185	29	65.9	604	2	US-09-872-861A-4	Sequence 4, Appl1
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115	30	68.2	472	2	US-09-489-039A-10123	Sequence 10123, A	188	29	65.9	883	1	US-08-953-492-2	Sequence 2, Appl1
116	30	68.2	485	2	US-10-142-231-88	Sequence 88, Appl1	189	29	65.9	883	1	US-09-583-1110-2900	Sequence 2900, Ap
117	30	68.2	553	2	US-09-949-016-10648	Sequence 10648, A	190	29	65.9	888	2	US-09-107-433-2964	Sequence 2964, Ap
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119	30	68.2	607	2	US-09-949-016-6293	Sequence 6293, Ap	192	29	65.9	1129	2	US-09-543-681A-6416	Sequence 6416, Ap
120	30	68.2	610	2	US-09-949-016-6945	Sequence 6945, Ap	193	29	65.9	1205	2	US-09-330-330-1	Sequence 1, Appl1
121	30	68.2	654	2	US-08-560-005-10	Sequence 10, Appl1	194	29	65.9	1252	2	US-09-302-540-13967	Sequence 13967, A
122	30	68.2	654	2	US-09-418-540-10	Sequence 10, Appl1	195	29	65.9	1539	2	US-09-949-016-10190	Sequence 10190, A
123	30	68.2	654	2	US-09-969-528-70	Sequence 10, Appl1	196	29	65.9	1575	2	US-09-917-254-83	Sequence 83, Appl1
124	30	68.2	664	2	US-09-248-796A-16454	Sequence 16454, A	197	29	65.9	1575	2	US-09-949-016-6743	Sequence 6743, Ap
125	30	68.2	764	1	US-08-424-567-2	Sequence 2, Appl1	198	29	65.9	2235	2	US-09-032-438C-6	Sequence 6, Appl1
126	30	68.2	764	1	US-08-711-937-2	Sequence 2, Appl1	199	29	65.9	2273	2	US-09-032-438C-3	Sequence 3, Appl1
127	30	68.2	764	1	US-08-184-937-2	Sequence 2, Appl1	200	29	65.9	2289	2	US-09-051-019-2	Sequence 2, Appl1
128	30	68.2	790	2	US-09-949-016-11220	Sequence 11220, A	201	29	65.9	3730	2	US-09-949-016-9908	Sequence 9908, Ap
129	30	68.2	848	2	US-09-489-039A-13773	Sequence 13773, A	202	29	65.9	4968	2	US-09-424-783-5	Sequence 58, Appl1
130	30	68.2	935	2	US-09-512-250C-33	Sequence 33, Appl1	203	29	65.9	9	2	US-10-365-908-58	Sequence 58, Appl1
131	30	68.2	1019	2	US-09-434-066-23	Sequence 23, Appl1	204	28	63.6	9	2	US-10-365-908-110	Sequence 110, App
132	30	68.2	1189	2	US-08-851-567B-26	Sequence 26, Appl1	205	28	63.6	10	2	US-10-365-908-94	Sequence 94, Appl1
133	29	65.9	11	2	US-08-836-075A-155	Sequence 155, App	206	28	63.6	10	2	US-10-365-908-113	Sequence 113, App
134	29	65.9	35	2	US-09-645-470-41	Sequence 41, Appl1	207	28	63.6	56	2	US-09-029-424-15	Sequence 15, Appl1
135	29	65.9	35	2	US-10-318-200-41	Sequence 41, Appl1	208	28	63.6	101	2	US-09-270-767-42853	Sequence 42853, A
136	29	65.9	44	2	US-09-894-882-490	Sequence 490, App	209	28	63.6	115	2	US-09-248-796A-24760	Sequence 24760, A
137	29	65.9	44	2	US-09-894-882-491	Sequence 491, App	210	28	63.6	116	2	US-09-270-767-59667	Sequence 59667, A
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140	29	65.9	44	2	US-09-894-882-494	Sequence 494, App	213	28	63.6	129	2	US-09-270-767-36114	Sequence 36114, A
141	29	65.9	44	2	US-09-894-882-495	Sequence 495, App	214	28	63.6	129	2	US-09-270-767-51331	Sequence 51331, A
142	29	65.9	53	2	US-09-513-999C-4522	Sequence 4522, Ap	215	28	63.6	141	2	US-09-270-767-45638	Sequence 45638, A
143	29	65.9	70	2	US-09-894-882-235	Sequence 235, App	216	28	63.6	145	2	US-09-893-737-248	Sequence 248, App
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145	29	65.9	70	2	US-09-894-882-253	Sequence 253, App	218	28	63.6	148	2	US-09-270-767-43022	Sequence 43022, A
146	29	65.9	70	2	US-09-894-882-256	Sequence 256, App	219	28	63.6	149	2	US-09-107-532A-5296	Sequence 5296, Ap
147	29	65.9	74	2	US-09-583-110-3657	Sequence 3657, App	220	28	63.6	177	2	US-09-270-767-40943	Sequence 40943, A
148	29	65.9	80	2	US-09-248-796A-21020	Sequence 21020, A	221	28	63.6	192	1	US-09-270-767-56159	Sequence 56159, A
149	29	65.9	80	2	US-09-248-796A-23868	Sequence 23868, A	222	28	63.6	192	1	US-08-086-428B-81	Sequence 81, Appl1
150	29	65.9	122	2	US-09-543-681A-4397	Sequence 4397, App	223	28	63.6	192	1	US-08-468-570-81	Sequence 81, Appl1
151	29	65.9	149	2	US-08-836-075A-52	Sequence 52, Appl1	224	28	63.6	192	1	US-08-290-665A-81	Sequence 81, Appl1
152	29	65.9	149	2	US-08-635-886C-284	Sequence 284, App	225	28	63.6	192	2	US-08-466-601A-81	Sequence 81, Appl1
153	29	65.9	149	2	US-08-974-690C-284	Sequence 284, App	226	28	63.6	193	4	PCT-US95-10398-81	Sequence 81, Appl1
154	29	65.9	156	1	US-08-844-064-10	Sequence 10, Appl1	227	28	63.6	213	2	US-09-634-238-299	Sequence 299, Appl1
155	29	65.9	156	1	US-09-009-433-10	Sequence 10, Appl1	228	28	63.6	213	2	US-09-771-161A-109	Sequence 109, App
156	29	65.9	156	2	US-09-270-767-44808	Sequence 44808, A	229	28	63.6	214	2	US-08-914-375C-27	Sequence 27, Appl1
157	29	65.9	174	2	US-09-248-796A-18328	Sequence 18328, A	230	28	63.6	215	2	US-08-484-841A-10	Sequence 10, Appl1
158	29	65.9	180	1	US-08-844-064-2	Sequence 2, Appl1	231	28	63.6	222	2	US-09-489-039A-10946	Sequence 10946, A
159	29	65.9	180	2	US-09-109-433-2	Sequence 2, Appl1	232	28	63.6	247	2	US-09-919-032A-285	Sequence 285, App
160	29	65.9	199	2	US-09-107-532A-5931	Sequence 5931, Ap	233	28	63.6	248	2	US-09-270-767-44243	Sequence 44243, A
161	29	65.9	272	2	US-09-385-219A-46	Sequence 46, Appl1	234	28	63.6	267	2	US-09-270-767-57318	Sequence 57318, A
162	29	65.9	285	2	US-09-270-767-32703	Sequence 32703, A	235	28	63.6	274	2	US-10-222-577-14	Sequence 14, Appl1
163	29	65.9	291	2	US-09-107-532A-7140	Sequence 7140, Ap	236	28	63.6	274	2	US-10-222-577-14	Sequence 14, Appl1
164	29	65.9	293	2	US-09-248-796A-18278	Sequence 18278, A	237	28	63.6	274	2	US-10-222-577-14	Sequence 14, Appl1
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166	29	65.9	308	2	US-09-252-991A-28762	Sequence 28762, A	239	28	63.6	284	2	US-09-248-796A-15123	Sequence 15123, A
167	29	65.9	310	2	US-09-328-352-4534	Sequence 4534, Ap	240	28	63.6	289	2	US-09-653-274-11	Sequence 11, Appl1
168	29	65.9	323	2	US-09-252-991A-19242	Sequence 19242, A	241	28	63.6	289	2	US-10-461-791-11	Sequence 11, Appl1
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171	29	65.9	377	2	US-09-023-591A-31	Sequence 31, Appl1	244	28	63.6	298	2	US-09-902-540-9759	Sequence 9759, Ap
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249	28	63.6	328	2	US-09-386-642-11	Sequence 11, Appl	322	28	63.6	723	2	US-08-700-5197-19	Sequence 18, Appl
250	28	63.6	343	2	US-09-948-094-2	Sequence 2, Appl1	323	28	63.6	723	2	US-09-600-991-18	Sequence 4, Appl1
251	28	63.6	343	2	US-10-037-417-130	Sequence 130, App	324	28	63.6	723	2	US-08-605-221-4	Sequence 10, Appl1
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253	28	63.6	368	2	US-09-710-279-742	Sequence 742, App	326	28	63.6	728	1	US-07-815-333A-2	Sequence 22, Appl
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255	28	63.6	406	2	US-09-215-450-26	Sequence 26, Appl	328	28	63.6	728	1	US-08-605-221-2	Sequence 2, Appl1
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261	28	63.6	447	2	US-09-949-016-6560	Sequence 6560, Ap	334	28	63.6	888	2	US-08-895-601-6	Sequence 6, Appl1
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263	28	63.6	450	2	US-08-974-690C-201	Sequence 201, App	336	28	63.6	965	2	US-09-252-991A-30698	Sequence 30698, A
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265	28	63.6	456	1	US-09-234-613-5	Sequence 5, Appl1	338	28	63.6	1044	2	US-09-334-272-10	Sequence 10, Appl
266	28	63.6	456	2	US-09-949-016-6407	Sequence 6407, Ap	339	28	63.6	1049	2	US-09-653-274-8	Sequence 8, Appl1
267	28	63.6	460	2	US-09-134-001C-3369	Sequence 3369, Ap	340	28	63.6	1070	2	US-10-461-791-8	Sequence 8, Appl1
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272	28	63.6	485	2	US-10-214-269-20	Sequence 20, Appl	345	28	63.6	1147	2	US-09-538-092-1074	Sequence 1074, Ap
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405	27	61.4	112	4	PCT-US95-08950-4	Sequence 4, App11	478	27	61.4	144	2	US-08-974-690C-236	Sequence 236, App
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414	27	61.4	114	2	US-09-679-710B-7	Sequence 7, App11	487	27	61.4	155	2	US-09-635-251-1	Sequence 1, App11
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463	27	61.4	124	1	US-08-012-543-2	Sequence 2, App11	536	27	61.4	186	2	US-08-446-872A-163	Sequence 163, App
464	27	61.4	132	2	US-09-054-711C-3	Sequence 3, App11	537	27	61.4	186	2	US-08-762-227A-163	Sequence 163, App
465	27	61.4	132	2	US-09-462-941-19	Sequence 19, App1	538	27	61.4	186	4	PCT-US92-05612-6	Sequence 6, App11

539	27	61.4	186	4	PCT-US94-14179-20	Sequence 20, Appl	612	27	61.4	274	2	US-09-248-796A-17825	Sequence 17825, A
540	27	61.4	186	4	PCT-US95-01185-163	Sequence 163, App	613	27	61.4	279	1	US-09-248-796A-20456	Sequence 20456, A
541	27	61.4	187	1	US-07-632-070B-3	Sequence 3, Appl1	614	27	61.4	290	1	US-08-576-626A-34	Sequence 34, Appl
542	27	61.4	188	2	US-09-122-443-12	Sequence 12, Appl	615	27	61.4	294	2	US-09-710-279-1918	Sequence 1918, Ap
543	27	61.4	188	2	US-09-558-089-12	Sequence 12, Appl	616	27	61.4	296	2	US-09-134-001C-3652	Sequence 3652, Ap
544	27	61.4	188	2	US-09-558-087-12	Sequence 12, Appl	617	27	61.4	296	2	US-09-710-279-2968	Sequence 2968, Ap
545	27	61.4	188	2	US-09-558-474-12	Sequence 12, Appl	618	27	61.4	302	2	US-09-270-767-51395	Sequence 513178, A
546	27	61.4	192	2	US-08-149-101A-19	Sequence 19, Appl	619	27	61.4	302	2	US-09-270-767-51395	Sequence 51395, A
547	27	61.4	192	4	PCT-US94-12873-19	Sequence 19, Appl	620	27	61.4	304	2	US-08-635-886C-204	Sequence 204, App
548	27	61.4	194	2	US-08-149-101A-18	Sequence 18, Appl	621	27	61.4	304	2	US-08-974-690C-294	Sequence 9736, Ap
549	27	61.4	194	2	US-09-489-039A-7974	Sequence 7974, Ap	622	27	61.4	305	2	US-09-489-039A-9736	Sequence 9736, Ap
550	27	61.4	194	4	PCT-US94-12873-18	Sequence 18, Appl	623	27	61.4	305	2	US-09-248-796A-14506	Sequence 14506, A
551	27	61.4	196	2	US-08-482-918-40	Sequence 40, Appl	624	27	61.4	305	2	US-09-248-796A-15651	Sequence 145651, A
552	27	61.4	196	2	US-09-224-681-40	Sequence 40, Appl	625	27	61.4	309	2	US-09-448-796A-15651	Sequence 45536, A
553	27	61.4	196	2	US-08-336-728A-40	Sequence 40, Appl	626	27	61.4	311	2	US-09-270-767-45536	Sequence 140, App
554	27	61.4	196	2	US-09-635-351-40	Sequence 40, Appl	627	27	61.4	311	2	US-10-012-231A-140	Sequence 140, App
555	27	61.4	196	2	US-09-224-683-40	Sequence 40, Appl	628	27	61.4	311	2	US-10-015-389A-140	Sequence 140, App
556	27	61.4	196	2	US-09-604-325A-40	Sequence 40, Appl	629	27	61.4	311	2	US-10-006-768A-140	Sequence 140, App
557	27	61.4	200	1	US-08-209-182C-8	Sequence 8, Appl1	630	27	61.4	311	2	US-10-015-671A-140	Sequence 140, App
558	27	61.4	201	1	US-08-220-379B-4	Sequence 4, Appl1	631	27	61.4	311	2	US-10-015-393A-140	Sequence 140, App
559	27	61.4	201	2	US-09-252-991A-20355	Sequence 20355, A	632	27	61.4	311	2	US-10-011-833A-140	Sequence 140, App
560	27	61.4	201	4	PCT-US92-05612-8	Sequence 8, Appl1	633	27	61.4	312	2	US-10-006-041A-140	Sequence 140, App
561	27	61.4	206	2	US-09-902-540-16467	Sequence 16467, A	634	27	61.4	312	2	US-09-107-532A-6369	Sequence 6369, Ap
562	27	61.4	212	1	US-08-792-019B-9	Sequence 9, Appl1	635	27	61.4	315	2	US-09-602-777A-74	Sequence 74, Appl
563	27	61.4	212	2	US-08-988-819-9	Sequence 9, Appl1	636	27	61.4	316	1	US-09-326-402C-17	Sequence 17, Appl
564	27	61.4	212	2	US-09-016-534-9	Sequence 9, Appl1	637	27	61.4	316	1	US-08-647-860-2	Sequence 2, Appl1
565	27	61.4	212	2	US-08-097-869-7	Sequence 7, Appl1	638	27	61.4	316	1	US-08-647-860-2	Sequence 2, Appl1
566	27	61.4	212	2	US-08-795-473B-6	Sequence 6, Appl1	639	27	61.4	316	1	US-08-946-914-15	Sequence 15, Appl
567	27	61.4	212	2	US-09-230-371A-27	Sequence 27, Appl	640	27	61.4	316	2	US-08-946-914-17	Sequence 17, Appl
568	27	61.4	212	2	US-09-439-856-6	Sequence 6, Appl1	641	27	61.4	316	2	US-09-131-648-5	Sequence 5, Appl1
569	27	61.4	212	2	US-09-487-792-14	Sequence 14, Appl	642	27	61.4	316	2	US-09-212-146-3	Sequence 3, Appl1
570	27	61.4	212	2	US-09-908-594-14	Sequence 14, Appl	643	27	61.4	316	2	US-09-656-450-15	Sequence 15, Appl
571	27	61.4	212	2	US-09-462-941-13	Sequence 13, Appl	644	27	61.4	316	2	US-09-326-402C-5	Sequence 5, Appl1
572	27	61.4	212	2	US-09-462-941-13	Sequence 13, Appl	645	27	61.4	316	2	US-09-326-402C-5	Sequence 5, Appl1
573	27	61.4	212	6	US-09-484-577A-38	Sequence 38, Appl	646	27	61.4	317	2	US-09-326-402C-15	Sequence 15, App
574	27	61.4	217	2	US-09-248-796A-18218	Sequence 18218, A	647	27	61.4	317	2	US-08-946-914-6	Sequence 6, Appl1
575	27	61.4	217	2	US-09-270-767-38762	Sequence 38762, A	648	27	61.4	317	2	US-08-946-914-6	Sequence 6, Appl1
576	27	61.4	220	2	US-09-270-767-53979	Sequence 53979, A	649	27	61.4	317	2	US-08-468-609A-145	Sequence 145, App
577	27	61.4	220	2	US-09-902-540-11622	Sequence 11622, A	650	27	61.4	317	2	US-08-446-872A-145	Sequence 145, App
578	27	61.4	224	2	US-09-328-352-7057	Sequence 7057, Ap	651	27	61.4	317	2	US-08-762-227A-145	Sequence 6, Appl1
579	27	61.4	228	2	US-09-949-016-10315	Sequence 10315, A	652	27	61.4	317	2	US-08-875-553B-30	Sequence 30, Appl
580	27	61.4	232	2	US-09-094-148-2	Sequence 2, Appl1	653	27	61.4	317	4	PCT-US95-01185-145	Sequence 145, App
581	27	61.4	232	2	US-09-252-991A-131951	Sequence 131951, A	654	27	61.4	317	4	PCT-US95-01185-145	Sequence 4, Appl1
582	27	61.4	236	2	US-09-902-540-15119	Sequence 15119, A	655	27	61.4	318	2	US-09-357-170A-4	Sequence 18937, A
583	27	61.4	236	2	US-09-248-796A-19831	Sequence 19831, A	656	27	61.4	318	2	US-09-902-540-10897	Sequence 18, Appl
584	27	61.4	237	2	US-08-913-014A-2	Sequence 2, Appl1	657	27	61.4	319	2	US-08-836-075A-18	Sequence 206, App
585	27	61.4	239	2	US-08-913-014A-3	Sequence 3, Appl1	658	27	61.4	319	2	US-08-635-886C-206	Sequence 206, App
586	27	61.4	239	2	US-09-653-285-2	Sequence 2, Appl1	659	27	61.4	319	2	US-08-974-690C-206	Sequence 144, App
587	27	61.4	239	2	US-09-653-285-3	Sequence 3, Appl1	660	27	61.4	321	4	PCT-US94-04208-2	Sequence 2, Appl1
588	27	61.4	246	2	US-09-134-000C-3992	Sequence 3992, Ap	661	27	61.4	321	4	PCT-US94-04208-2	Sequence 6616, Ap
589	27	61.4	251	2	US-09-602-787A-480	Sequence 480, App	662	27	61.4	331	2	US-09-270-767-44210	Sequence 44210, A
590	27	61.4	251	2	US-08-705-771-17	Sequence 17, Appl	663	27	61.4	331	2	US-09-134-001C-5550	Sequence 5550, Ap
591	27	61.4	252	2	US-09-417-540-17	Sequence 17, Appl	664	27	61.4	337	2	US-09-252-991A-29730	Sequence 29730, A
592	27	61.4	252	2	US-09-134-000C-3868	Sequence 3868, Ap	665	27	61.4	337	2	US-09-252-991A-23936	Sequence 23936, A
593	27	61.4	259	2	US-09-270-767-42193	Sequence 42193, A	666	27	61.4	344	2	US-09-540-236-7702	Sequence 27702, Ap
594	27	61.4	262	2	US-09-728-521-1	Sequence 1, Appl1	667	27	61.4	344	2	US-10-104-047-2116	Sequence 28728, A
595	27	61.4	264	1	US-09-212-146-1	Sequence 1, Appl1	668	27	61.4	347	2	US-09-252-991A-18987	Sequence 18987, A
596	27	61.4	264	1	US-09-212-146-1	Sequence 7740, Ap	669	27	61.4	349	2	US-09-252-991A-18987	Sequence 28728, A
597	27	61.4	264	2	US-09-328-352-7740	Sequence 19237, A	670	27	61.4	358	2	US-09-326-402C-6	Sequence 6, Appl1
598	27	61.4	269	2	US-09-252-991A-19237	Sequence 19237, A	671	27	61.4	358	2	US-09-326-402C-16	Sequence 25, Appl
599	27	61.4	271	2	US-09-252-991A-23450	Sequence 23450, A	672	27	61.4	360	1	US-08-118-270-15	Sequence 23023, A
600	27	61.4	273	2	US-08-482-918-42	Sequence 42, Appl	673	27	61.4	360	1	US-09-252-991A-23023	Sequence 25, Appl
601	27	61.4	273	2	US-08-482-918-54	Sequence 54, Appl	674	27	61.4	360	4	PCT-US93-08528-25	Sequence 14, Appl1
602	27	61.4	273	2	US-09-224-681-42	Sequence 42, Appl	675	27	61.4	360	4	PCT-US93-08528-25	Sequence 84, Appl
603	27	61.4	273	2	US-09-224-681-54	Sequence 54, Appl	676	27	61.4	362	1	US-08-846-762-14	Sequence 984, Appl
604	27	61.4	273	2	US-08-336-728A-42	Sequence 42, Appl	677	27	61.4	362	1	US-08-846-762-83	Sequence 984, Appl
605	27	61.4	273	2	US-08-336-728A-54	Sequence 54, Appl	678	27	61.4	365	2	US-09-138-452A-984	Sequence 984, App
606	27	61.4	273	2	US-09-635-251-42	Sequence 42, Appl	679	27	61.4	365	2	US-09-438-185A-913	Sequence 913, App
607	27	61.4	273	2	US-09-635-251-54	Sequence 54, Appl	680	27	61.4	366	2	US-09-326-402C-7	Sequence 7, Appl1
608	27	61.4	273	2	US-09-224-683-42	Sequence 42, Appl	681	27	61.4	369	2	US-09-252-991A-17585	Sequence 17585, A
609	27	61.4	273	2	US-09-224-683-54	Sequence 54, Appl	682	27	61.4	374	2	US-09-248-796A-16046	Sequence 16046, A
610	27	61.4	273	2	US-09-604-325A-42	Sequence 54, Appl	683	27	61.4	375	2	US-09-710-279-1840	Sequence 1840, Ap
611	27	61.4	273	2	US-09-604-325A-54	Sequence 54, Appl	684	27	61.4	375	2	US-09-710-279-1840	Sequence 1840, Ap

685	27	61.4	395	2	US-08-991-426-2	Sequence 2, Appl1	758	27	61.4	716	2	US-09-868-758-41	Sequence 41, Appl1
686	27	61.4	395	2	US-09-143-470-2	Sequence 2, Appl1	759	27	61.4	716	2	US-09-868-758-42	Sequence 42, Appl1
687	27	61.4	395	2	US-09-771-023-8	Sequence 8, Appl1	760	27	61.4	716	2	US-09-868-758-43	Sequence 43, Appl1
688	27	61.4	395	2	US-09-602-787A-242	Sequence 242, Appl	761	27	61.4	716	2	US-09-868-758-44	Sequence 44, Appl1
689	27	61.4	406	2	US-09-134-001C-3570	Sequence 3570, Ap	762	27	61.4	716	2	US-09-868-758-45	Sequence 45, Appl1
690	27	61.4	418	2	US-09-019-095A-10	Sequence 10, Appl	763	27	61.4	725	2	US-09-252-991A-21212	Sequence 21212, A
691	27	61.4	428	2	US-09-385-219A-6	Sequence 6, Appl1	764	27	61.4	727	2	US-09-543-681A-6690	Sequence 6690, Ap
692	27	61.4	431	2	US-10-104-047-3894	Sequence 3894, Ap	765	27	61.4	752	1	US-08-896-590A-2	Sequence 2, Appl1
693	27	61.4	434	1	US-08-710-249-4	Sequence 4, Appl1	766	27	61.4	752	1	US-08-896-590A-4	Sequence 4, Appl1
694	27	61.4	434	1	US-09-220-157A-4	Sequence 4, Appl1	767	27	61.4	752	2	US-09-185-832-2	Sequence 2, Appl1
695	27	61.4	435	2	US-09-270-767-43836	Sequence 43836, A	768	27	61.4	752	2	US-09-185-832-4	Sequence 4, Appl1
696	27	61.4	438	2	US-09-589-510-10	Sequence 10, Appl	769	27	61.4	752	2	US-09-583-110-4227	Sequence 4227, Ap
697	27	61.4	455	2	US-09-589-510-2	Sequence 2, Appl1	770	27	61.4	763	2	US-09-107-433-3000	Sequence 3000, Ap
698	27	61.4	455	2	US-09-589-510-4	Sequence 4, Appl1	771	27	61.4	778	2	US-09-248-796A-22025	Sequence 20025, Ap
699	27	61.4	455	2	US-09-589-510-6	Sequence 6, Appl1	772	27	61.4	795	2	US-09-198-452A-314	Sequence 314, App
700	27	61.4	456	2	US-09-589-510-8	Sequence 8, Appl1	773	27	61.4	795	2	US-09-438-185A-302	Sequence 302, App
701	27	61.4	459	2	US-09-248-796A-18289	Sequence 18289, A	774	27	61.4	842	2	US-09-293-549-2	Sequence 2, Appl1
702	27	61.4	467	2	US-09-902-540-11250	Sequence 11250, A	775	27	61.4	842	2	US-09-293-549-4	Sequence 4, Appl1
703	27	61.4	470	2	US-10-104-047-2022	Sequence 2022, Ap	776	27	61.4	843	2	US-09-215-966-22	Sequence 22, Appl
704	27	61.4	472	2	US-09-252-991A-23918	Sequence 23918, A	777	27	61.4	857	2	US-09-275-252A-11	Sequence 11, Appl
705	27	61.4	473	2	US-09-270-767-37633	Sequence 37633, A	778	27	61.4	859	2	US-09-949-016-7815	Sequence 7815, Ap
706	27	61.4	473	2	US-09-270-767-52850	Sequence 52850, A	779	27	61.4	861	1	US-08-343-101A-18	Sequence 18, Appl
707	27	61.4	477	1	US-07-791-936A-2	Sequence 2, Appl1	780	27	61.4	861	2	US-09-183-688-18	Sequence 18, Appl
708	27	61.4	477	1	US-08-383-781B-2	Sequence 2, Appl1	781	27	61.4	861	2	US-09-519-489-18	Sequence 18, Appl
709	27	61.4	477	1	US-07-969-267B-2	Sequence 2, Appl1	782	27	61.4	915	2	US-09-949-016-7425	Sequence 7425, Ap
710	27	61.4	477	2	US-09-168-510-2	Sequence 2, Appl1	783	27	61.4	944	2	US-09-134-000C-5578	Sequence 5578, Ap
711	27	61.4	477	2	US-09-826-509-493	Sequence 493, App	784	27	61.4	946	2	US-09-657-931A-10	Sequence 10, Appl
712	27	61.4	477	2	US-09-964-956-47	Sequence 47, Appl	785	27	61.4	957	2	US-09-914-259-16	Sequence 16, Appl
713	27	61.4	477	2	US-10-277-078-2	Sequence 2, Appl1	786	27	61.4	1034	2	US-10-104-047-2343	Sequence 2343, Ap
714	27	61.4	482	2	US-09-949-016-7966	Sequence 7966, Ap	787	27	61.4	1055	2	US-09-949-016-9776	Sequence 9776, Ap
715	27	61.4	486	2	US-09-270-767-44274	Sequence 44274, A	788	27	61.4	1059	2	US-09-902-540-10430	Sequence 10430, A
716	27	61.4	510	1	US-08-300-584-4	Sequence 4, Appl1	789	27	61.4	1161	2	US-09-252-991A-26363	Sequence 26363, A
717	27	61.4	510	2	US-08-476-123-4	Sequence 4, Appl1	790	27	61.4	1238	2	US-09-252-991A-26363	Sequence 26363, A
718	27	61.4	510	2	US-09-742-684A-4	Sequence 4, Appl1	791	27	61.4	1278	2	US-09-462-136-2	Sequence 2, Appl1
719	27	61.4	512	2	US-09-949-016-10977	Sequence 10977, A	792	27	61.4	1307	1	US-08-395-246C-2	Sequence 2, Appl1
720	27	61.4	513	1	US-08-357-533A-11	Sequence 11, Appl	793	27	61.4	1318	2	US-09-949-016-10152	Sequence 10152, A
721	27	61.4	513	1	US-08-459-009-11	Sequence 11, Appl	794	27	61.4	1376	1	US-08-420-235B-3	Sequence 3, Appl1
722	27	61.4	513	2	US-08-459-951-11	Sequence 11, Appl	795	27	61.4	1376	2	US-08-793-624-3	Sequence 3, Appl1
723	27	61.4	517	2	US-09-257-825B-21	Sequence 21, Appl	796	27	61.4	1376	4	PCT-US95-1014-3	Sequence 3, Appl1
724	27	61.4	520	2	US-09-357-825B-20	Sequence 20, Appl	797	27	61.4	1588	1	US-08-698-551-16	Sequence 16, Appl
725	27	61.4	522	2	US-09-338-092-1096	Sequence 1096, Ap	798	27	61.4	1588	1	US-08-602-228-16	Sequence 16, Appl
726	27	61.4	536	1	US-08-357-533A-12	Sequence 12, Appl	799	27	61.4	1588	1	US-08-839-032A-16	Sequence 16, Appl
727	27	61.4	536	1	US-08-459-009-12	Sequence 12, Appl	800	27	61.4	1588	2	US-09-185-256C-16	Sequence 16, Appl
728	27	61.4	536	2	US-08-459-951-12	Sequence 12, Appl	801	27	61.4	1588	2	US-09-976-594-965	Sequence 965, App
729	27	61.4	536	2	US-09-267-963B-35	Sequence 35, Appl	802	27	61.4	1727	1	US-08-477-451-10	Sequence 10, Appl
730	27	61.4	538	2	US-09-252-991A-22427	Sequence 22427, A	803	27	61.4	1900	2	US-09-538-092-564	Sequence 564, App
731	27	61.4	548	2	US-09-167-299-3	Sequence 3, Appl1	804	27	61.4	2418	2	US-09-487-558B-390	Sequence 390, App
732	27	61.4	554	2	US-09-949-016-10978	Sequence 10978, A	805	27	61.4	2509	1	US-09-949-016-10703	Sequence 10703, A
733	27	61.4	556	2	US-09-872-861-3	Sequence 3, Appl1	806	27	61.4	2511	2	US-08-469-005A-10	Sequence 10, Appl
734	27	61.4	556	2	US-09-814-134A-4	Sequence 4, Appl1	807	27	61.4	2930	2	US-09-261-907-2	Sequence 2, Appl1
735	27	61.4	574	2	US-09-352-991A-31651	Sequence 31651, A	808	27	61.4	2930	2	US-09-417-822-2	Sequence 2, Appl1
736	27	61.4	577	2	US-09-502-540-10734	Sequence 10734, A	809	27	61.4	2930	2	US-09-957-837A-2	Sequence 2, Appl1
737	27	61.4	587	2	US-09-448-796A-15696	Sequence 15696, A	810	26	59.1	11	2	US-08-836-075A-141	Sequence 141, App
738	27	61.4	589	2	US-10-012-991-3	Sequence 3, Appl1	811	26	59.1	23	2	US-09-270-767-60275	Sequence 60275, A
739	27	61.4	593	2	US-09-448-796A-19856	Sequence 19856, A	812	26	59.1	44	2	US-09-894-882-235	Sequence 235, App
740	27	61.4	597	2	US-09-949-016-7719	Sequence 7719, Ap	813	26	59.1	44	2	US-09-894-882-235	Sequence 235, App
741	27	61.4	603	2	US-09-248-796A-14740	Sequence 14740, A	814	26	59.1	44	2	US-09-894-882-234	Sequence 234, App
742	27	61.4	607	2	US-09-252-991A-18351	Sequence 18351, A	815	26	59.1	44	2	US-09-894-882-234	Sequence 234, App
743	27	61.4	615	2	US-09-949-002-433	Sequence 433, App	816	26	59.1	44	2	US-09-894-882-237	Sequence 237, App
744	27	61.4	617	1	US-08-137-614A-24	Sequence 24, Appl	817	26	59.1	48	2	US-09-148-545-214	Sequence 214, App
745	27	61.4	625	2	US-09-902-540-12827	Sequence 12827, A	818	26	59.1	48	2	US-09-148-545-214	Sequence 214, App
746	27	61.4	637	2	US-09-489-039A-13362	Sequence 13362, A	819	26	59.1	48	2	US-09-270-767-60905	Sequence 60905, A
747	27	61.4	646	2	US-09-270-767-46432	Sequence 46432, A	820	26	59.1	53	2	US-09-621-011-234	Sequence 234, App
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ALIGNMENTS

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; Patent No. 6160088
; GENERAL INFORMATION:
; APPLICANT: Rochman, James
; APPLICANT: Mayhew, Mark
; APPLICANT: Hoe, Mee
; TITLE OF INVENTION: KDEL RECEPTOR INHIBITORS
; FILE REFERENCE: 31488
; CURRENT APPLICATION NUMBER: US/09/124,671A
; CURRENT FILING DATE: 1998-07-29
; NUMBER OF SEQ ID NOS: 42
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 10
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Papillomavirus
US-09-124-671-10

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Best Local Similarity 100.0%; Pred. No. 4,6e+05;
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; Sequence 14, Application US/09794529B
; Patent No. 6641812
; GENERAL INFORMATION:
; APPLICANT: Sloan-Kettering Institute for Cancer Research
; APPLICANT: ROTHMAN, James E.
; APPLICANT: HARTL, F. Ulrich
; APPLICANT: HOUGHTON, Alan
; APPLICANT: HOE, Mee H.
; APPLICANT: TAKECHI, Yoshizumi
; APPLICANT: MAYHEW, Mark
; TITLE OF INVENTION: Heat Shock Protein-Based Vaccines and
; Immunotherapies
; NUMBER OF SEQUENCES: 30
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; COUNTRY: US
; ZIP: 10004
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette - 3.5 inch, 1.44 Mb storage
; COMPUTER: IBM compatible
; OPERATING SYSTEM: MS DOS
; SOFTWARE: Word Perfect
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/794,529B
; FILING DATE: 09-Jan-2002
; CLASSIFICATION: 536
; PRIORITY APPLICATION DATA:
; APPLICATION NUMBER: 60/002,479
; FILING DATE: August 18, 1995
; APPLICATION NUMBER: 60/002,490
; FILING DATE: August 18, 1995
; APPLICATION NUMBER: PCT/US96/13363
; FILING DATE: August 16, 1996
; APPLICATION NUMBER: 09/011,645
; FILING DATE: February 13, 1998
; ATTORNEY/AGENT INFORMATION:
; NAME: DeLucia, Richard L.
; REGISTRATION NUMBER: 28,839
; REFERENCE/DOCKET NUMBER: 11746/11
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 425-5280
; TELEFAX: (212) 425-5288
; TELEX: <Unknown>
; INFORMATION FOR SEQ ID NO: 14:
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RESULT 3
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; APPLICANT: ROTHMAN, James E.
; APPLICANT: HARTL, F. Ulrich
; APPLICANT: HOUGHTON, Alan
; APPLICANT: HOE, Mee H.
; APPLICANT: TAKECHI, Yoshizumi
; APPLICANT: MAYHEW, Mark
; TITLE OF INVENTION: Heat Shock Protein-Based Vaccines and
; Immunotherapies
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NUMBER OF SEQUENCES: 30
CORRESPONDENCE ADDRESS:
ADDRESSEE: Kenyon & Kenyon
STREET: One Broadway
CITY: New York
STATE: NY
COUNTRY: US
ZIP: 10004
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette - 3.5 inch, 1.44 Mb storage
COMPUTER: IBM compatible
OPERATING SYSTEM: MS DOS
SOFTWARE: Word Perfect
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/794,529B
FILING DATE: 09-Jan-2002
CLASSIFICATION: 536
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 60/002,479
FILING DATE: August 18, 1995
APPLICATION NUMBER: 60/002,490
FILING DATE: August 18, 1995
APPLICATION NUMBER: PCT/US96/13363
FILING DATE: August 16, 1996
APPLICATION NUMBER: 09/011,645
FILING DATE: February 13, 1998
ATTORNEY/AGENT INFORMATION:
NAME: Delucia, Richard L.
REGISTRATION NUMBER: 28,839
REFERENCE/DOCKET NUMBER: 11746/11
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 425-7200
TELEFAX: (212) 425-5288
TELEX: <Unknown>
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Patent No. 6656679
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APPLICANT: Sloan-Kettering Institute for Cancer Research
ROTHMAN, James E.
HARTL, F. Ulrich
HOE, Mee H.
HOUGHTON, Alan
TAKECHI, Yoshizumi
MAYHEW, Mark
TITLE OF INVENTION: Heat Shock Protein-Based Vaccines and

Immunotherapies
NUMBER OF SEQUENCES: 30
CORRESPONDENCE ADDRESS:
ADDRESSEE: Kenyon & Kenyon
STREET: One Broadway
CITY: New York
STATE: NY
COUNTRY: US
ZIP: 10004
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette - 3.5 inch, 1.44 Mb storage
COMPUTER: IBM compatible
OPERATING SYSTEM: MS DOS
SOFTWARE: Word Perfect
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FILING DATE: 19-Oct-2001
CLASSIFICATION: 536
PRIOR APPLICATION DATA:
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FILING DATE: August 18, 1995
APPLICATION NUMBER: 60/002,490
FILING DATE: August 18, 1995
APPLICATION NUMBER: PCT/US96/13363
FILING DATE: August 16, 1996
APPLICATION NUMBER: 09/011,645
FILING DATE: February 13, 1998
ATTORNEY/AGENT INFORMATION:
NAME: Delucia, Richard L.
REGISTRATION NUMBER: 28,839
REFERENCE/DOCKET NUMBER: 11746/13
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 425-7200
TELEFAX: (212) 425-5288
TELEX: <Unknown>
INFORMATION FOR SEQ ID NO: 14:
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STRANDEDNESS: <Unknown>
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MOLECULE TYPE: peptide
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OTHER INFORMATION: hybrid peptide for human papilloma
virus vaccine
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RESULT 5
US-09-794-517A-15
Sequence 15, Application US/09794517A
Patent No. 6656679
GENERAL INFORMATION:
APPLICANT: Sloan-Kettering Institute for Cancer Research
ROTHMAN, James E.
HARTL, F. Ulrich
HOE, Mee H.
HOUGHTON, Alan
TAKECHI, Yoshizumi
MAYHEW, Mark

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; TITLE OF INVENTION: Heat Shock Protein-Based Vaccines and
; Immunotherapies
; NUMBER OF SEQUENCES: 30
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Kenyon & Kenyon
; STREET: One Broadway
; CITY: New York
; STATE: NY
; COUNTRY: US
; ZIP: 10004
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette - 3.5 inch, 1.44 Mb storage
; COMPUTER: IBM compatible
; OPERATING SYSTEM: MS DOS
; SOFTWARE: Word Perfect
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/794,517A
; FILING DATE: 19-Oct-2001
; CLASSIFICATION: 536
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 60/002,479
; FILING DATE: August 18, 1995
; APPLICATION NUMBER: 60/002,490
; FILING DATE: August 18, 1995
; APPLICATION NUMBER: PCT/US96/13363
; FILING DATE: August 16, 1996
; APPLICATION NUMBER: 09/011,645
; FILING DATE: February 13, 1998
; ATTORNEY/AGENT INFORMATION:
; NAME: Delucia, Richard L.
; REGISTRATION NUMBER: 28,839
; REFERENCE/DOCKET NUMBER: 11746/13
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 425-7200
; TELEFAX: (212) 425-5288
; TELEX: <Unknown>
; INFORMATION FOR SEQ ID NO: 15:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20
; TYPE: amino acid
; STRANDEDNESS: <Unknown>
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; HYPOTHETICAL: yes
; FRAGMENT TYPE: internal
; ORIGINAL SOURCE:
; ORGANISM: <Unknown>
; FEATURE:
; OTHER INFORMATION: hybrid peptide for human papilloma
; virus vaccine
; SEQUENCE DESCRIPTION: SEQ ID NO: 15:
US-09-794-517A-15
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Best Local Similarity 100.0%; Pred. No. 0.12;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 TLQDIVLHL 9
Db 12 TLQDIVLHL 20
RESULT 6
US-09-011-645E-14
; Sequence 14, Application US/09011645E
; Patent No. 6663868
; GENERAL INFORMATION:
; APPLICANT: Sloan-Kettering Institute for Cancer Research
; ROTHMAN, James E.
; HARTL, F. Ulrich
; HOE, Mee H.
; HOUGHTON, Alan
; TAKECHI, Yoshizumi
;

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; MAYHEW, Mark
; TITLE OF INVENTION: Heat Shock Protein-Based Vaccines and
; Immunotherapies
; NUMBER OF SEQUENCES: 30
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Kenyon & Kenyon
; STREET: One Broadway
; CITY: New York
; STATE: NY
; COUNTRY: US
; ZIP: 10004
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette - 3.5 inch, 1.44 Mb storage
; COMPUTER: IBM compatible
; OPERATING SYSTEM: MS DOS
; SOFTWARE: Word Perfect
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/011,645E
; FILING DATE: 13-Feb-1998
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 60/002,479
; FILING DATE: August 18, 1995
; APPLICATION NUMBER: 60/002,490
; FILING DATE: August 18, 1995
; APPLICATION NUMBER: PCT/US96/13363
; FILING DATE: August 16, 1996
; ATTORNEY/AGENT INFORMATION:
; NAME: Delucia, Richard L.
; REGISTRATION NUMBER: 28,839
; REFERENCE/DOCKET NUMBER: 11746/1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 425-7200
; TELEFAX: (212) 425-5288
; TELEX: <Unknown>
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; SEQUENCE CHARACTERISTICS:
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; TOPOLOGY: linear
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; HYPOTHETICAL: yes
; FRAGMENT TYPE: internal
; ORIGINAL SOURCE:
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; FEATURE:
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; virus vaccine
; SEQUENCE DESCRIPTION: SEQ ID NO: 14:
US-09-011-645E-14
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Best Local Similarity 100.0%; Pred. No. 0.12;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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Db 1 TLQDIVLHL 9
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US-09-011-645E-15
; Sequence 15, Application US/09011645E
; Patent No. 6663868
; GENERAL INFORMATION:
; APPLICANT: Sloan-Kettering Institute for Cancer Research
; ROTHMAN, James E.
; HARTL, F. Ulrich
; HOE, Mee H.
; HOUGHTON, Alan
; TAKECHI, Yoshizumi
; MAYHEW, Mark
;

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TITLE OF INVENTION: Heat Shock Protein-Based Vaccines and
Immunotherapies
NUMBER OF SEQUENCES: 30
CORRESPONDENCE ADDRESS:
ADDRESSEE: Kenyon & Kenyon
STREET: One Broadway
CITY: New York
STATE: NY
COUNTRY: US
ZIP: 10004
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette - 3.5 inch, 1.44 Mb storage
COMPUTER: IBM compatible
OPERATING SYSTEM: MS DOS
SOFTWARE: Word Perfect
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/011,645E
FILING DATE: 13-Feb-1998
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 60/002,479
FILING DATE: August 18, 1995
APPLICATION NUMBER: 60/002,490
FILING DATE: August 18, 1995
APPLICATION NUMBER: PCT/US96/13363
FILING DATE: August 16, 1996
ATTORNEY/AGENT INFORMATION:
NAME: Delucia, Richard L.
REGISTRATION NUMBER: 28, 839
REFERENCE/DOCKET NUMBER: 11746/1
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 425-7200
TELEFAX: (212) 425-5288
TELEX: <Unknown>
INFORMATION FOR SEQ ID NO: 15:
SEQUENCE CHARACTERISTICS:
LENGTH: 20
TYPE: amino acid
STRANDEDNESS: <Unknown>
TOPOLOGY: linear
MOLECULE TYPE: peptide
HYPOTHETICAL: yes
FRAGMENT TYPE: internal
ORIGINAL SOURCE:
ORGANISM: <Unknown>
FEATURE:
OTHER INFORMATION: hybrid peptide for human papilloma
virus vaccine
SEQUENCE DESCRIPTION: SEQ ID NO: 15:
US-09-011-645E-15
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Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0.
QY 1 TLQDIVLHL 9
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|||
Db 12 TLQDIVLHL 20
RESULT 8
US-09-794-832-14
; Sequence 14, Application US/09794832
; Patent No. 6673348
GENERAL INFORMATION:
APPLICANT: Sloan-Kettering Institute for Cancer Research
ROTHMAN, James E.
HARTL, F. Ulrich
HOB, Mee H.
HOUGHTON, Alan
TAKEMI, Yoshizumi
MAYHEW, Mark
TITLE OF INVENTION: Heat Shock Protein-Based Vaccines and

```

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1 Immunotherapies
2
3 NUMBER OF SEQUENCES: 30
4 CORRESPONDENCE ADDRESS:
5 ADDRESSEE: Kenyon & Kenyon
6 STREET: One Broadway
7 CITY: New York
8 STATE: NY
9 COUNTRY: US
10 ZIP: 10004
11
12 COMPUTER READABLE FORM:
13 MEDIUM TYPE: Diskette - 3.5 inch, 1.44 Mb storage
14 COMPUTER: IBM compatible
15 OPERATING SYSTEM: MS DOS
16 SOFTWARE: Word perfect
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18 CURRENT APPLICATION DATA:
19 APPLICATION NUMBER: US/09/794,832
20 FILING DATE: 27-Feb-2001
21 CLASSIFICATION: <Unknown>
22
23 PRIOR APPLICATION DATA:
24 APPLICATION NUMBER: US/09/011,645
25 FILING DATE: 13-Feb-1998
26 APPLICATION NUMBER: 60/002,479
27 FILING DATE: August 18, 1995
28 APPLICATION NUMBER: 60/002,490
29 FILING DATE: August 18, 1995
30 APPLICATION NUMBER: PCT/US96/13363
31 FILING DATE: August 16, 1996
32
33 ATTORNEY/AGENT INFORMATION:
34 NAME: Delucia, Richard L.
35 REGISTRATION NUMBER: 28,839
36 REFERENCE/DOCKET NUMBER: 11746/1
37
38 TELECOMMUNICATION INFORMATION:
39 TELEPHONE: (212) 425-7200
40 TELEFAX: (212) 425-5288
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42 TELEX: <Unknown>
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44 INFORMATION FOR SEQ ID NO: 14:
45 SEQUENCE CHARACTERISTICS:
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47 LENGTH: 20
48 TYPE: amino acid
49 STRANDEDNESS: <Unknown>
50 TOPOLOGY: linear
51 MOLECULAR TYPE: peptide
52 HYPOTHEICAL: yes
53 FRAGMENT TYPE: internal
54 ORIGINAL SOURCE:
55 ORGANISM: <Unknown>
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57 FEATURE:
58 OTHER INFORMATION: hybrid peptide for human papilloma
59 virus vaccine
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61 SEQUENCE DESCRIPTION: SEQ ID NO: 14:
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63 US-09-794-832-14
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66 Best Local Similarity 100.0%; Pred. No. 0.12;
67 Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0.
68
69 QY 1 TLQDIVLHL 9
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71 |||||||
72 Db 1 TLQDIVLHL 9
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74 RESULT 9
75 US-09-794-832-15
76 ; Sequence 15, Application US/09794832
77 ; Patent No. 6673348
78 GENERAL INFORMATION:
79 APPLICANT: Sloan-Kettering Institute for Cancer Research
80 ROTHMAN, James E.
81 HARTL, F. Ulrich
82 HOE, Mee H.
83 HOUGHTON, Alan
84 TAKECHI, Yoshizumi
85 MAYHEW, Mark
86 ;

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TITLE OF INVENTION: Heat Shock Protein-Based Vaccines and Immunotherapies
NUMBER OF SEQUENCES: 30
CORRESPONDENCE ADDRESS:
ADDRESSEE: Kenyon & Kenyon
STREET: One Broadway
CITY: New York
STATE: NY
COUNTRY: US
ZIP: 10004
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette - 3.5 inch, 1.44 Mb storage
COMPUTER: IBM compatible
OPERATING SYSTEM: MS DOS
SOFTWARE: Word Perfect
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FILING DATE: 27-Feb-2001
CLASSIFICATION: <Unknown>
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FILING DATE: 13-Feb-1998
APPLICATION NUMBER: 60/002,479
FILING DATE: August 18, 1995
APPLICATION NUMBER: 60/002,490
FILING DATE: August 18, 1995
APPLICATION NUMBER: PCT/US96/13363
FILING DATE: August 16, 1996
ATTORNEY/AGENT INFORMATION:
NAME: Delucia, Richard L.
REGISTRATION NUMBER: 28,839
REFERENCE/DOCKET NUMBER: 11746/1
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 425-7200
TELEFAX: (212) 425-5288
TELEX: <Unknown>
INFORMATION FOR SEQ ID NO: 15:
SEQUENCE CHARACTERISTICS:
LENGTH: 20
TYPE: amino acid
STRANDEDNESS: <Unknown>
TOPOLOGY: linear
MOLECULE TYPE: peptide
HYPOTHEICAL: yes
FRAGMENT TYPE: internal
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ORGANISM: <Unknown>
FEATURE:
OTHER INFORMATION: hybrid peptide for human papilloma virus vaccine
SEQUENCE DESCRIPTION: SEQ ID NO: 15:
US-09-794-832-15
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Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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Db 12 TLQDIVLHL 20
RESULT 10
US-09-680-806A-14
Sequence 14, Application US/09680806A
Patent No. 6719974
GENERAL INFORMATION:
APPLICANT: Sloan-Kettering Institute for Cancer Research
ROTHMAN, James E.
HARTL, F. Ulrich
HOB, Mee H.
HOUGHTON, Alan
TAKECHI, Yoshizumi

MAYHEW, Mark
TITLE OF INVENTION: Heat Shock Protein-Based Vaccines and Immunotherapies
NUMBER OF SEQUENCES: 30
CORRESPONDENCE ADDRESS:
ADDRESSEE: Kenyon & Kenyon
STREET: One Broadway
CITY: New York
STATE: NY
COUNTRY: US
ZIP: 10004
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette - 3.5 inch, 1.44 Mb storage
COMPUTER: IBM compatible
OPERATING SYSTEM: MS DOS
SOFTWARE: Word Perfect
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/680,806A
FILING DATE: 05-Oct-2000
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 60/002,479
FILING DATE: August 18, 1995
APPLICATION NUMBER: 60/002,490
FILING DATE: August 18, 1995
APPLICATION NUMBER: PCT/US96/13363
FILING DATE: August 16, 1996
APPLICATION NUMBER: 09/011,645
FILING DATE: February 13, 1998
ATTORNEY/AGENT INFORMATION:
NAME: Delucia, Richard L.
REGISTRATION NUMBER: 28,839
REFERENCE/DOCKET NUMBER: 11746/10
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 425-7200
TELEFAX: (212) 425-5288
TELEX: <Unknown>
INFORMATION FOR SEQ ID NO: 14:
SEQUENCE CHARACTERISTICS:
LENGTH: 20
TYPE: amino acid
STRANDEDNESS: <Unknown>
TOPOLOGY: linear
MOLECULE TYPE: peptide
HYPOTHEICAL: yes
FRAGMENT TYPE: internal
ORIGINAL SOURCE:
ORGANISM: <Unknown>
FEATURE:
OTHER INFORMATION: hybrid peptide for human papilloma virus vaccine
SEQUENCE DESCRIPTION: SEQ ID NO: 14:
US-09-680-806A-14
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Best Local Similarity 100.0%; Pred. No. 0.12;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 TLQDIVLHL 9
Db 1 TLQDIVLHL 9
RESULT 11
US-09-680-806A-15
Sequence 15, Application US/09680806A
Patent No. 6719974
GENERAL INFORMATION:
APPLICANT: Sloan-Kettering Institute for Cancer Research
ROTHMAN, James E.
HARTL, F. Ulrich
HOB, Mee H.
HOUGHTON, Alan

TAKECHI, Yoshizumi
MAYHEW, Mark
TITLE OF INVENTION: Heat Shock Protein-Based Vaccines and
Immunotherapies
NUMBER OF SEQUENCES: 30
CORRESPONDENCE ADDRESS:
ADDRESSEE: Kenyon & Kenyon
STREET: One Broadway
CITY: New York
STATE: NY
COUNTRY: US
ZIP: 10004
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette - 3.5 inch, 1.44 Mb storage
COMPUTER: IBM compatible
OPERATING SYSTEM: MS DOS
SOFTWARE: Word Perfect
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/680,806A
FILING DATE: 05-Oct-2000
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 60/002,479
FILING DATE: August 18, 1995
APPLICATION NUMBER: 60/002,490
FILING DATE: August 18, 1995
APPLICATION NUMBER: PCT/US96/13363
FILING DATE: August 16, 1996
APPLICATION NUMBER: 09/011,645
FILING DATE: February 13, 1998
ATTORNEY/AGENT INFORMATION:
NAME: Delucia, Richard L.
REGISTRATION NUMBER: 28,839
REFERENCE/DOCKET NUMBER: 11746/10
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 425-7200
TELEFAX: (212) 425-5288
TELEX: <Unknown>
INFORMATION FOR SEQ ID NO: 15:
SEQUENCE CHARACTERISTICS:
LENGTH: 20
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STRANDEDNESS: <Unknown>
TOPOLOGY: linear
MOLECULE TYPE: peptide
HYPOTHETICAL: yes
FRAGMENT TYPE: internal
ORIGINAL SOURCE:
ORGANISM: <Unknown>
FEATURE:
OTHER INFORMATION: hybrid peptide for human papilloma
virus vaccine
SEQUENCE DESCRIPTION: SEQ ID NO: 15:
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Best Local Similarity 100.0%; Pred. No. 0.12;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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DB 12 TLQDIVLHL 20
RESULT 12
US-09-552-868-14
Sequence 14, Application US/09552868
Patent No. 6761892
GENERAL INFORMATION:
APPLICANT: Sloan-Kettering Institute for Cancer Research
ROTHMAN, James E.
HARTL, F. Ulrich
HOB, Mee H.

HOUGHTON, Alan
TAKECHI, Yoshizumi
MAYHEW, Mark
TITLE OF INVENTION: Heat Shock Protein-Based Vaccines and
Immunotherapies
NUMBER OF SEQUENCES: 30
CORRESPONDENCE ADDRESS:
ADDRESSEE: Kenyon & Kenyon
STREET: One Broadway
CITY: New York
STATE: NY
COUNTRY: US
ZIP: 10004
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette - 3.5 inch, 1.44 Mb storage
COMPUTER: IBM compatible
OPERATING SYSTEM: MS DOS
SOFTWARE: Word Perfect
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/552,868
FILING DATE: 20-Apr-2000
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 60/002,479
FILING DATE: August 18, 1995
APPLICATION NUMBER: 60/002,490
FILING DATE: August 18, 1995
APPLICATION NUMBER: PCT/US96/13363
FILING DATE: August 16, 1996
APPLICATION NUMBER: 09/011,645
FILING DATE: February 13, 1998
ATTORNEY/AGENT INFORMATION:
NAME: Delucia, Richard L.
REGISTRATION NUMBER: 28,839
REFERENCE/DOCKET NUMBER: 11746/8
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 425-7200
TELEFAX: (212) 425-5288
TELEX: <Unknown>
INFORMATION FOR SEQ ID NO: 14:
SEQUENCE CHARACTERISTICS:
LENGTH: 20
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STRANDEDNESS: <Unknown>
TOPOLOGY: linear
MOLECULE TYPE: peptide
HYPOTHETICAL: yes
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ORGANISM: <Unknown>
FEATURE:
OTHER INFORMATION: hybrid peptide for human papilloma
virus vaccine
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DB 1 TLQDIVLHL 9
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US-09-552-868-15
Sequence 15, Application US/09552868
Patent No. 6761892
GENERAL INFORMATION:
APPLICANT: Sloan-Kettering Institute for Cancer Research
ROTHMAN, James E.
HARTL, F. Ulrich

HOE, Mee H.
HOUGHTON, Alan
TAKECHI, Yoshizumi
MAYHEW, Mark
TITLE OF INVENTION: Heat Shock Protein-Based Vaccines and Immunotherapies
NUMBER OF SEQUENCES: 30
CORRESPONDENCE ADDRESS:
ADDRESSEE: Kenyon & Kenyon
STREET: One Broadway
CITY: New York
STATE: NY
COUNTRY: US
ZIP: 10004
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette - 3.5 inch, 1.44 Mb storage
COMPUTER: IBM compatible
OPERATING SYSTEM: MS DOS
SOFTWARE: Word Perfect
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/552,868
FILING DATE: 20-Apr-2000
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 60/002,479
FILING DATE: August 18, 1995
APPLICATION NUMBER: 60/002,490
FILING DATE: August 18, 1995
APPLICATION NUMBER: PCT/US96/13363
FILING DATE: August 16, 1996
APPLICATION NUMBER: 09/011,645
FILING DATE: February 13, 1998
ATTORNEY/AGENT INFORMATION:
NAME: Delucia, Richard L.
REGISTRATION NUMBER: 28,839
REFERENCE/DOCKET NUMBER: 11746/8
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 425-7200
TELEFAX: (212) 425-5288
INFORMATION FOR SEQ ID NO: 15:
SEQUENCE CHARACTERISTICS:
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TOPOLOGY: linear
MOLECULE TYPE: peptide
HYPOTHETICAL: yes
FRAGMENT TYPE: internal
ORIGINAL SOURCE:
ORGANISM: <Unknown>
FEATURE:
OTHER INFORMATION: hybrid peptide for human papilloma virus vaccine
SEQUENCE DESCRIPTION: SEQ ID NO: 15:
US-09-552-868-15
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Best Local Similarity 100.0%; Pred. No. 0.12;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 TLQDIVLHL 9
Db 12 TLQDIVLHL 20
RESULT 14
US-09-636-295-14
Sequence 14, Application US/09636295
Patent No. 6773707
GENERAL INFORMATION:
APPLICANT: Sloan-Kettering Institute for Cancer Research
ROTHMAN, James B.

HARTL, F. Ulrich
HOE, Mee H.
HOUGHTON, Alan
TAKECHI, Yoshizumi
MAYHEW, Mark
TITLE OF INVENTION: Heat Shock Protein-Based Vaccines and Immunotherapies
NUMBER OF SEQUENCES: 30
CORRESPONDENCE ADDRESS:
ADDRESSEE: Kenyon & Kenyon
STREET: One Broadway
CITY: New York
STATE: NY
COUNTRY: US
ZIP: 10004
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette - 3.5 inch, 1.44 Mb storage
COMPUTER: IBM compatible
OPERATING SYSTEM: MS DOS
SOFTWARE: Word Perfect
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/636,295
FILING DATE: 10-Aug-2000
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 60/002,479
FILING DATE: August 18, 1995
APPLICATION NUMBER: 60/002,490
FILING DATE: August 18, 1995
APPLICATION NUMBER: PCT/US96/13363
FILING DATE: August 16, 1996
APPLICATION NUMBER: 09/011,645
FILING DATE: February 13, 1998
ATTORNEY/AGENT INFORMATION:
NAME: Delucia, Richard L.
REGISTRATION NUMBER: 28,839
REFERENCE/DOCKET NUMBER: 11746/9
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 425-7200
TELEFAX: (212) 425-5288
INFORMATION FOR SEQ ID NO: 14:
SEQUENCE CHARACTERISTICS:
LENGTH: 20
TYPE: amino acid
STRANDEDNESS: <Unknown>
TOPOLOGY: linear
MOLECULE TYPE: peptide
HYPOTHETICAL: yes
FRAGMENT TYPE: internal
ORIGINAL SOURCE:
ORGANISM: <Unknown>
FEATURE:
OTHER INFORMATION: hybrid peptide for human papilloma virus vaccine
SEQUENCE DESCRIPTION: SEQ ID NO: 14:
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Best Local Similarity 100.0%; Pred. No. 0.12;
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Db 1 TLQDIVLHL 9
RESULT 15
US-09-636-295-15
Sequence 15, Application US/09636295
Patent No. 6773707
GENERAL INFORMATION:
APPLICANT: Sloan-Kettering Institute for Cancer Research

ROTHMAN, James E.
HARTL, P. Ulrich
HOE, Mee H.
HOUGHTON, Alan
TRAKCHI, Yoshizumi
MAYHEW, Mark
TITLE OF INVENTION: Heat Shock Protein-Based Vaccines and Immunotherapies
NUMBER OF SEQUENCES: 30
CORRESPONDENCE ADDRESS:
ADDRESSEE: Kenyon & Kenyon
STREET: One Broadway
CITY: New York
STATE: NY
COUNTRY: US
ZIP: 10004
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette - 3.5 inch, 1.44 Mb storage
COMPUTER: IBM compatible
OPERATING SYSTEM: MS DOS
SOFTWARE: Word Perfect
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/636,295
FILING DATE: 10-Aug-2000
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 60/002,479
FILING DATE: August 18, 1995
APPLICATION NUMBER: 60/002,490
FILING DATE: August 18, 1995
APPLICATION NUMBER: PCT/US96/13363
FILING DATE: August 16, 1996
APPLICATION NUMBER: 09/011,645
FILING DATE: February 13, 1998
ATTORNEY/AGENT INFORMATION:
NAME: Delucia, Richard L.
REGISTRATION NUMBER: 28,839
REFERENCE/DOCKET NUMBER: 11746/9
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 425-7200
TELEFAX: (212) 425-5288
TELEX: <Unknown>
INFORMATION FOR SEQ ID NO: 15:
SEQUENCE CHARACTERISTICS:
LENGTH: 20
TYPE: amino acid
STRANDEDNESS: <Unknown>
TOPOLOGY: linear
MOLECULE TYPE: peptide
HYPOTHETICAL: yes
FRAGMENT TYPE: internal
ORIGINAL SOURCE:
ORGANISM: <Unknown>
FEATURE:
OTHER INFORMATION: hybrid peptide for human papilloma virus vaccine
SEQUENCE DESCRIPTION: SEQ ID NO: 15:
US-09-636-295-15
Query Match 100.0%; Score 44; DB 2; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.12;
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QY 1 TLQDIVLHL 9
DB 12 TLQDIVLHL 20
RESULT 16
US-08-934-915-61
Sequence 61, Application US/08934915
Patent No. 5932412
GENERAL INFORMATION:

APPLICANT: DILLNER, JOAKIM
APPLICANT: DILLNER, LENA
APPLICANT: CHENG, HWE-MING
TITLE OF INVENTION: SYNTHETIC PEPTIDES OF HUMAN
TITLE OF INVENTION: PAPILLOMAVIRUS 1, 5, 6, 8,
TITLE OF INVENTION: 11, 16, 18, 31, 33 AND 56,
TITLE OF INVENTION: USEFUL IN IMMUNOASSAY FOR
TITLE OF INVENTION: DIAGNOSTIC PURPOSES
NUMBER OF SEQUENCES: 193
CORRESPONDENCE ADDRESS:
ADDRESSEE: MASON & ASSOCIATES, P.A.
STREET: 17757 U.S. HWY. 19 NORTH, SUITE 500
CITY: CLEARWATER
STATE: FLORIDA
COUNTRY: U.S.A.
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: Windows 3.0
SOFTWARE: Microsoft Word 6.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/934,915
FILING DATE: 22-SEP-1997
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/949,836
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: LOUISE A. Foutch
REGISTRATION NUMBER: 37,133
REFERENCE/DOCKET NUMBER: 1946.6
TELECOMMUNICATION INFORMATION:
TELEPHONE: 813-538-3800
TELEFAX: 813-538-3820
TELEX:
INFORMATION FOR SEQ ID NO: 61:
SEQUENCE CHARACTERISTICS:
LENGTH: 30 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-08-934-915-61
Query Match 100.0%; Score 44; DB 1; Length 30;
Best Local Similarity 100.0%; Pred. No. 0.18;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 TLQDIVLHL 9
DB 6 TLQDIVLHL 14
RESULT 17
US-09-485-885-16
Sequence 16, Application US/09485885
Patent No. 6342224
GENERAL INFORMATION:
APPLICANT: Bruck, Claudine
APPLICANT: Cabazon Silva, Teresa
APPLICANT: Delisse, Anne-Marie Eva Fernande
APPLICANT: Gerard, Catherine Marie Ghislaine
APPLICANT: Lombardo-Bencheikh, Angela
TITLE OF INVENTION: Vaccine
FILE REFERENCE: B45107
CURRENT APPLICATION NUMBER: US/09/485,885
CURRENT FILING DATE: 2000-02-18
PRIOR APPLICATION NUMBER: PCT/EP98/05285
PRIOR FILING DATE: 1998-08-17
PRIOR APPLICATION NUMBER: GB 9717953.5
PRIOR FILING DATE: 1997-08-22
NUMBER OF SEQ ID NOS: 23
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 16

LENGTH: 227
TYPE: PRT
ORGANISM: Homo sapien
US-09-485-885-16

Query Match
Best Local Similarity 100.0%; Score 44; DB 2; Length 227;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TLQDIIVLHL 9
Db 120 TLQDIIVLHL 128

RESULT 18
US-09-485-885-19
Sequence 19, Application US/09485885
Patent No. 6342224
GENERAL INFORMATION:
APPLICANT: Bruck, Claudine
APPLICANT: Cabezon Silva, Teresa
APPLICANT: Delisse, Anne-Marie Eva Bernande
APPLICANT: Gerard, Catherine Marie Ghislaine
APPLICANT: Lombardo-Benchelkh, Angela
TITLE OF INVENTION: Vaccine
FILE REFERENCE: B45107
CURRENT APPLICATION NUMBER: US/09/485,885
CURRENT FILING DATE: 2000-02-18
PRIOR APPLICATION NUMBER: PCT/EP98/05285
PRIOR FILING DATE: 1998-08-17
PRIOR APPLICATION NUMBER: GB 9717953.5
PRIOR FILING DATE: 1997-08-22
NUMBER OF SEQ ID NOS: 23
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 19
LENGTH: 227
TYPE: PRT
ORGANISM: Homo sapien
US-09-485-885-19

Query Match
Best Local Similarity 100.0%; Score 44; DB 2; Length 227;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TLQDIIVLHL 9
Db 120 TLQDIIVLHL 128

RESULT 19
US-08-117-083-13
Sequence 13, Application US/08117083
Patent No. 5719054
GENERAL INFORMATION:
APPLICANT: Bournselli, Michael E.
APPLICANT: Ingulis, Stephen C.
APPLICANT: Munro, Alan J.
TITLE OF INVENTION: Recombinant Virus Vectors Encoding Human
TITLE OF INVENTION: Papilloma Virus Proteins
NUMBER OF SEQUENCES: 70
CORRESPONDENCE ADDRESSES:
ADDRESSEE: Walter H. Dregger
STREET: 4 Embarcadero Center, Suite 3400
CITY: San Francisco
STATE: CA
COUNTRY: USA
ZIP: 94111
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/117,083
FILING DATE: 10-SEP-1993
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Dregger, Walter H.
REGISTRATION NUMBER: 24,190
REFERENCE/DOCKET NUMBER: A-58783
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415-781-1989
TELEFAX: 415-398-3249
TELEFAX: 910 277299
INFORMATION FOR SEQ ID NO: 13:
SEQUENCE CHARACTERISTICS:
LENGTH: 272 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
FEATURE:
NAME/KEY: Protein
LOCATION: 1..272
OTHER INFORMATION: /note="Xaa refers to stop codon in
OTHER INFORMATION: the open reading frame."

Query Match
Best Local Similarity 100.0%; Score 44; DB 1; Length 272;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TLQDIIVLHL 9
Db 170 TLQDIIVLHL 178

RESULT 20
US-09-485-885-23
Sequence 23, Application US/09485885
Patent No. 6342224
GENERAL INFORMATION:
APPLICANT: Bruck, Claudine
APPLICANT: Cabezon Silva, Teresa
APPLICANT: Delisse, Anne-Marie Eva Bernande
APPLICANT: Gerard, Catherine Marie Ghislaine
APPLICANT: Lombardo-Benchelkh, Angela
TITLE OF INVENTION: Vaccine
FILE REFERENCE: B45107
CURRENT APPLICATION NUMBER: US/09/485,885
CURRENT FILING DATE: 2000-02-18
PRIOR APPLICATION NUMBER: PCT/EP98/05285
PRIOR FILING DATE: 1998-08-17
PRIOR APPLICATION NUMBER: GB 9717953.5
PRIOR FILING DATE: 1997-08-22
NUMBER OF SEQ ID NOS: 23
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 23
LENGTH: 383
TYPE: PRT
ORGANISM: Homo sapien
US-09-485-885-23

Query Match
Best Local Similarity 100.0%; Score 44; DB 2; Length 383;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TLQDIIVLHL 9
Db 276 TLQDIIVLHL 284

RESULT 21
US-09-252-991A-24069
Sequence 24069, Application US/09252991A
Patent No. 6551795


```

; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252.991A
; PRIOR FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074.788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094.190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 24069
; LENGTH: 1003
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-24069

Query Match      84.1%; Score 37; DB 2; Length 1003;
Best Local Similarity 77.8%; Pred. No. 1.2e+02;
Matches 7; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY      1 TL0D1V1LH1 9
Db      342 TL0D1L1FHL 350

RESULT 22
US-09-830-807-7
; Sequence 7, Application US/09830807
; Patent No. 6846667
; GENERAL INFORMATION:
; APPLICANT: Crooke, Helen R.
; APPLICANT: Clarke, Bnda E.
; APPLICANT: Everest, Paul H.
; APPLICANT: Dougan, Gordon
; APPLICANT: Holden, David W.
; APPLICANT: Shea, Jacqueline E.
; APPLICANT: Feldman, Robert G.
; TITLE OF INVENTION: VIRULENCE GENES AND PROTEINS, AND THEIR USE
; FILE REFERENCE: GUE-65
; CURRENT APPLICATION NUMBER: US/09/830.807
; CURRENT FILING DATE: 2001-04-30
; NUMBER OF SEQ ID NOS: 72
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 7
; LENGTH: 42
; TYPE: PRT
; ORGANISM: Escherichia coli
US-09-830-807-7

Query Match      81.8%; Score 36; DB 2; Length 42;
Best Local Similarity 66.7%; Pred. No. 7.3;
Matches 6; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY      1 TL0D1V1LH1 9
Db      32 TL0D1L1LH1 40

RESULT 23
US-08-851-567B-51
; Sequence 51, Application US/08851567B
; Patent No. 6528484
; GENERAL INFORMATION:
; APPLICANT: Ensign, Jerald C
; APPLICANT: Bowen, David J
; APPLICANT: Petell, James
; APPLICANT: Patis, Raymond
; APPLICANT: Schoonover, Sue
; APPLICANT: Hrench-Constant, Richard
; APPLICANT: Rochelleau, Thomas A.
; APPLICANT: Blackburn, Michael B.
```

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; APPLICANT: Hey, Timothy D.
; APPLICANT: Merlo, Donald J.
; APPLICANT: Orr, Gregory L.
; APPLICANT: Roberts, Jean L.
; APPLICANT: Strickland, James A.
; APPLICANT: Guo, Lining
; APPLICANT: Cliche, Todd A.
; APPLICANT: Subhinda, Kitisri
; TITLE OF INVENTION: Insecticidal Protein Toxins From Photornabodus
; NUMBER OF SEQUENCES: 8
; CORRESPONDENCE ADDRESS:
; ADDRESSER: Dow Agrosciences Patent Department
; STREET: 9330 Zionville Road
; CITY: Indianapolis
; STATE: IN
; COUNTRY: US
; ZIP: 46268
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/851.567B
; FILING DATE: 05-MAY-1997
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/063.615
; FILING DATE: 18-MAY-1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/395.497
; FILING DATE: 28-FEB-1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 60/007.255
; FILING DATE: 06-NOV-1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/608.423
; FILING DATE: 28-FEB-1996
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/705.484
; FILING DATE: 28-AUG-1996
; ATTORNEY/AGENT INFORMATION:
; NAME: Seay, Nicholas J
; REGISTRATION NUMBER: 27386
; REFERENCE/DOCKET NUMBER: 960296.93804
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 608-251-5000
; TELEFAX: 608-251-9166
; INFORMATION FOR SEQ ID NO: 51:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 579 amino acids
; TYPE: amino acids
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-851-567B-51

Query Match      81.8%; Score 36; DB 2; Length 579;
Best Local Similarity 66.7%; Pred. No. 1e+02;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY      1 TL0D1V1LH1 9
Db      566 TL0D1L1H1 574

RESULT 24
US-09-489-039A-10710
; Sequence 10710, Application US/09489039A
; Patent No. 6610836
; GENERAL INFORMATION:
; APPLICANT: Gary Breton et. al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO KLEBSIELLA
; TITLE OF INVENTION: PNEUMONIAE FOR DIAGNOSTICS AND THERAPEUTICS
```

FILE REFERENCE: 2709.2004001
CURRENT APPLICATION NUMBER: US/09/489,039A
CURRENT FILING DATE: 2000-01-27
PRIOR APPLICATION NUMBER: US 60/117,747
PRIOR FILING DATE: 1999-01-29
NUMBER OF SEQ ID NOS: 14342
SEQ ID NO 10710
LENGTH: 715
TYPE: PRT
ORGANISM: Klebsiella pneumoniae
US-09-489-039A-10710

Query Match 81.8%; Score 36; DB 2; Length 715;
Best Local Similarity 66.7%; Pred. No. 1.3e+02;
Matches 6; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY 1 TLQDVLHL 9
Db 54 TVQDLHL 62

RESULT 25
US-08-851-567B-47
Sequence 47, Application US/08851567B
Patent No. 6528484
GENERAL INFORMATION:
APPLICANT: Ensign, Gerald C
APPLICANT: Bowen, David J
APPLICANT: Petell, James
APPLICANT: Fatig, Raymond
APPLICANT: Schoonover, Sue
APPLICANT: ffrench-Constant, Richard
APPLICANT: Rocheleau, Thomas A.
APPLICANT: Blackburn, Michael B.
APPLICANT: Hey, Timothy D.
APPLICANT: Merlo, Donald J.
APPLICANT: Orr, Gregory L.
APPLICANT: Roberts, Jean L.
APPLICANT: Strickland, James A.
APPLICANT: Guo, Lining
APPLICANT: Cliche, Todd A.
APPLICANT: Subhapinda, Kitiari
TITLE OF INVENTION: Insecticidal Protein Toxins From Photorhabdus
NUMBER OF SEQUENCES: 88
CORRESPONDENCE ADDRESS:
ADDRESSEE: Dow Agrosciences Patent Department
STREET: 9330 Zionville Road
CITY: Indianapolis
STATE: IN
COUNTRY: US
ZIP: 46268
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/851,567B
FILING DATE: 05-MAY-1997
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/063,615
FILING DATE: 18-MAY-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/395,497
FILING DATE: 28-FEB-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 60/007,255
FILING DATE: 06-NOV-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/608,423
FILING DATE: 28-FEB-1996
PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 08/705,484
FILING DATE: 28-AUG-1996
ATTORNEY/AGENT INFORMATION:
NAME: Seay, Nicholas J
REGISTRATION NUMBER: 27386
REFERENCE/DOCKET NUMBER: 960296.93804
TELECOMMUNICATION INFORMATION:
TELEPHONE: 608-251-5000
TELEFAX: 608-251-9166
INFORMATION FOR SEQ ID NO: 47:
SEQUENCE CHARACTERISTICS:
LENGTH: 2516 amino acids
TYPE: amino acids
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-851-567B-47

Query Match 81.8%; Score 36; DB 2; Length 2516;
Best Local Similarity 66.7%; Pred. No. 4.5e+02;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 TLQDVLHL 9
Db 2503 TLNDIHL 2511

RESULT 26
US-09-817-514A-2
Sequence 2, Application US/09817514A
Patent No. 6639129
GENERAL INFORMATION:
APPLICANT: ffrench-Constant, Richard
APPLICANT: Bowen, David
APPLICANT: Rocheleau, Thomas
APPLICANT: Waterfield, Nicholas
TITLE OF INVENTION: DNA SEQUENCES FROM PHOTORHABDUS LUMINESCENS
FILE REFERENCE: 61645
CURRENT APPLICATION NUMBER: US/09/817,514A
CURRENT FILING DATE: 2000-03-26
PRIOR APPLICATION NUMBER: US 60/191806
PRIOR FILING DATE: 2000-03-24
NUMBER OF SEQ ID NOS: 8
SOFTWARE: Patent version 3.0
SEQ ID NO 2
LENGTH: 2516
TYPE: PRT
ORGANISM: Photorhabdus luminescens
US-09-817-514A-2

Query Match 81.8%; Score 36; DB 2; Length 2516;
Best Local Similarity 66.7%; Pred. No. 4.5e+02;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 TLQDVLHL 9
Db 2503 TLNDIHL 2511

RESULT 27
US-09-251-645-13
Sequence 13, Application US/09251645
Patent No. 6281413
GENERAL INFORMATION:
APPLICANT: Kramer, Vance C.
APPLICANT: Morgan, Michael K.
APPLICANT: Anderson, Arne R.
APPLICANT: Hart, Hope
APPLICANT: Warren, Gregory W.
APPLICANT: Dunn, Martha
APPLICANT: Chen, Jeng S.
TITLE OF INVENTION: NOVEL INSECTICIDAL TOXINS FROM PHOTORHABDUS LUMINESCENS
TITLE OF INVENTION: AND NUCLEIC ACID SEQUENCES CODING THEREFOR
FILE REFERENCE: CCG1963/A

CURRENT APPLICATION NUMBER: US/09/251,645
CURRENT FILING DATE: 1999-02-17
NUMBER OF SEQ ID NOS: 22
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 13
LENGTH: 2522
TYPE: PRT
ORGANISM: Photorhabdus luminescens
US-09-251-645-13

Query Match 81.8%; Score 36; DB 2; Length 2522;
Best Local Similarity 66.7%; Pred. No. 4.5e+02;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TLDDIVLHL 9
Db 2509 TLDDIVLHL 2517

RESULT 28
US-09-830-230A-716
Sequence 716, Application US/09830230A
Patent No. 6902893
GENERAL INFORMATION:
APPLICANT: Human Genome Sciences, Inc.
TITLE OF INVENTION: Lyme Disease Vaccines
FILE REFERENCE: PB481US
CURRENT APPLICATION NUMBER: US/09/830,230A
CURRENT FILING DATE: 2001-09-27
PRIOR APPLICATION NUMBER: PCT/US98/12718
PRIOR FILING DATE: 1998-06-18
PRIOR APPLICATION NUMBER: 60/057,483
PRIOR FILING DATE: 1997-09-03
PRIOR APPLICATION NUMBER: 60/053,344
PRIOR FILING DATE: 1997-07-22
PRIOR APPLICATION NUMBER: 60/053,377
PRIOR FILING DATE: 1997-07-22
PRIOR APPLICATION NUMBER: 60/050,359
PRIOR FILING DATE: 1997-06-20
NUMBER OF SEQ ID NOS: 756
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 716
LENGTH: 223
TYPE: PRT
ORGANISM: Homo sapiens
US-09-830-230A-716

Query Match 79.5%; Score 35; DB 2; Length 223;
Best Local Similarity 66.7%; Pred. No. 59;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TLDDIVLHL 9
Db 136 TLDDIVLHL 144

RESULT 29
US-09-830-230A-715
Sequence 715, Application US/09830230A
Patent No. 6902893
GENERAL INFORMATION:
APPLICANT: Human Genome Sciences, Inc.
TITLE OF INVENTION: Lyme Disease Vaccines
FILE REFERENCE: PB481US
CURRENT APPLICATION NUMBER: US/09/830,230A
CURRENT FILING DATE: 2001-09-27
PRIOR APPLICATION NUMBER: PCT/US98/12718
PRIOR FILING DATE: 1998-06-18
PRIOR APPLICATION NUMBER: 60/057,483
PRIOR FILING DATE: 1997-09-03
PRIOR APPLICATION NUMBER: 60/053,344
PRIOR FILING DATE: 1997-07-22
PRIOR APPLICATION NUMBER: 60/053,377

PRIOR FILING DATE: 1997-07-22
PRIOR APPLICATION NUMBER: 60/050,359
PRIOR FILING DATE: 1997-06-20
NUMBER OF SEQ ID NOS: 756
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 715
LENGTH: 254
TYPE: PRT
ORGANISM: Homo sapiens
US-09-830-230A-715

Query Match 79.5%; Score 35; DB 2; Length 254;
Best Local Similarity 66.7%; Pred. No. 68;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TLDDIVLHL 9
Db 158 TLDDIVLHL 166

RESULT 30
US-08-851-567B-55
Sequence 55, Application US/08851567B
Patent No. 6529484
GENERAL INFORMATION:
APPLICANT: Ensign, Jerald C
APPLICANT: Bowen, David J
APPLICANT: Petell, James
APPLICANT: Faid, Raymond
APPLICANT: Schoonover, Sue
APPLICANT: French-Constant, Richard
APPLICANT: Rochelleau, Thomas A.
APPLICANT: Blackburn, Michael B.
APPLICANT: Hey, Timothy D.
APPLICANT: Merlo, Donald J.
APPLICANT: Orr, Gregory L.
APPLICANT: Roberts, Jean L.
APPLICANT: Strickland, James A.
APPLICANT: Guo, Lining
APPLICANT: Ciche, Todd A.
APPLICANT: Sukhupinda, Kitiisri
TITLE OF INVENTION: Insecticidal Protein Toxins From Photorhabdus
NUMBER OF SEQUENCES: 88
CORRESPONDENCE ADDRESS:
ADDRESSER: Dow AgroSciences Patent Department
STREET: 9330 Zionsville Road
CITY: Indianapolis
STATE: IN
COUNTRY: US
ZIP: 46268
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/851,567B
FILING DATE: 05-MAY-1997
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/063,615
FILING DATE: 18-MAY-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/395,497
FILING DATE: 28-FEB-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 60/007,255
FILING DATE: 06-NOV-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/608,423
FILING DATE: 28-FEB-1996
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/705,484

FILING DATE: 28-AUG-1996
ATTORNEY/AGENT INFORMATION:
NAME: Seay, Nicholas J
REGISTRATION NUMBER: 27386
REFERENCE/DOCKET NUMBER: 960296.93804
TELECOMMUNICATION INFORMATION:
TELEPHONE: 608-251-5000
TELEFAX: 608-251-9166
INFORMATION FOR SEQ ID NO: 55:
SEQUENCE CHARACTERISTICS:
LENGTH: 573 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-851-567B-55

Query Match 77.3%; Score 34; DB 2; Length 573;
Best Local Similarity 55.6%; Pred. No. 2.3e+02;
Matches 5; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 1 TL0DIVLHL 9
Db 560 TMSDIHLI 568

RESULT 31
US-08-851-567B-12
Sequence 12, Application US/08851567B
Patent No. 6528484
GENERAL INFORMATION:
APPLICANT: Ensign, Jerald C
APPLICANT: Bowen, David J
APPLICANT: Petell, James
APPLICANT: Fatig, Raymond
APPLICANT: Schoonover, Sue
APPLICANT: ffrench-Constant, Richard
APPLICANT: Rocheleau, Thomas A.
APPLICANT: Blackburn, Michael B.
APPLICANT: Hey, Timothy D.
APPLICANT: Merlo, Donald J.
APPLICANT: Orr, Gregory L.
APPLICANT: Roberts, Jean L.
APPLICANT: Strickland, James A.
APPLICANT: Guo, Lining
APPLICANT: Cliche, Todd A.
APPLICANT: Sukhapiinda, Kitiert
TITLE OF INVENTION: Insecticidal Protein Toxins From Photorhabdus
NUMBER OF SEQUENCES: 88
CORRESPONDENCE ADDRESS:
ADDRESSEE: Dow Agrosciences Patent Department
STREET: 9330 Zionsville Road
CITY: Indianapolis
STATE: IN
COUNTRY: US
ZIP: 46268
COMPUTER READABLE FORM:
MEDIUM TYPE: floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/851,567B
FILING DATE: 05-MAY-1997
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/063,615
FILING DATE: 18-MAY-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/395,497
FILING DATE: 28-FEB-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 60/007,255

FILING DATE: 06-NOV-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/608,423
FILING DATE: 28-FEB-1996
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/705,484
FILING DATE: 28-AUG-1996
ATTORNEY/AGENT INFORMATION:
NAME: Seay, Nicholas J
REGISTRATION NUMBER: 27386
REFERENCE/DOCKET NUMBER: 960296.93804
TELECOMMUNICATION INFORMATION:
TELEPHONE: 608-251-5000
TELEFAX: 608-251-9166
INFORMATION FOR SEQ ID NO: 12:
SEQUENCE CHARACTERISTICS:
LENGTH: 2504 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-851-567B-12

Query Match 77.3%; Score 34; DB 2; Length 2504;
Best Local Similarity 55.6%; Pred. No. 1e+03;
Matches 5; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 1 TL0DIVLHL 9
Db 2491 TMSDIHLI 2499

RESULT 32
US-09-817-514A-8
Sequence 8, Application US/09817514A
Patent No. 6639129
GENERAL INFORMATION:
APPLICANT: ffrench-Constant, Richard
APPLICANT: Bowen, David
APPLICANT: Rocheleau, Thomas
APPLICANT: Waterfield, Nicholas
TITLE OF INVENTION: DNA SEQUENCES FROM PHOTORHABDUS LUMINESCENS
FILE REFERENCE: 61645
CURRENT APPLICATION NUMBER: US/09/817,514A
CURRENT FILING DATE: 2000-03-26
PRIOR APPLICATION NUMBER: US 60/191806
PRIOR FILING DATE: 2000-03-24
NUMBER OF SEQ ID NOS: 8
SOFTWARE: PatentIn version 3.0
SEQ ID NO 8
LENGTH: 2504
TYPE: PRT
ORGANISM: Photorhabdus luminescens
US-09-817-514A-8

Query Match 77.3%; Score 34; DB 2; Length 2504;
Best Local Similarity 55.6%; Pred. No. 1e+03;
Matches 5; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 1 TL0DIVLHL 9
Db 2491 TMSDIHLI 2499

RESULT 33
US-09-270-767-45813
Sequence 45813, Application US/09270767
Patent No. 6703491
GENERAL INFORMATION:
APPLICANT: Homburger et al.
TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
FILE REFERENCE: File Reference: 7326-094
CURRENT APPLICATION NUMBER: US/09/270,767
CURRENT FILING DATE: 1999-03-17

NUMBER OF SEQ ID NOS: 62517
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 45813
LENGTH: 82
TYPE: PRT
ORGANISM: Drosophila melanogaster
US-09-270-767-45813

Query Match 75.0%; Score 33; DB 2; Length 82;
Best Local Similarity 66.7%; Pred. No. 50;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 TLQDIVLHL 9
||:|:|
Db 67 TLBDKLHL 75

RESULT 34
US-09-513-999C-5998
Sequence 5998, Application US/09513999C
Patent No. 6783961
GENERAL INFORMATION:
APPLICANT: Dumas Milne Edwards, J.B.
APPLICANT: Duclet, A.
TITLE OF INVENTION: Expressed Sequence Tags and Encoded Human Proteins.
Patent No. 6783961
FILE REFERENCE: 59, US2, REG
CURRENT APPLICATION NUMBER: US/09/513,999C
CURRENT FILING DATE: 2000-02-24
PRIOR APPLICATION NUMBER: US 60/122,487
PRIOR FILING DATE: 1999-02-26
NUMBER OF SEQ ID NOS: 36681
SOFTWARE: Patent.pm
SEQ ID NO 5998
LENGTH: 96
TYPE: PRT
ORGANISM: Homo sapiens
US-09-513-999C-5998

Query Match 75.0%; Score 33; DB 2; Length 96;
Best Local Similarity 66.7%; Pred. No. 58;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 TLQDIVLHL 9
||:|:|
Db 41 TLBDKLHL 49

RESULT 35
US-09-634-238-243
Sequence 243, Application US/09634238
Patent No. 6544772
GENERAL INFORMATION:
APPLICANT: Glenn, Matthew
APPLICANT: Havukala, Ilkka J.
APPLICANT: Bloksberg, Leonard, N.
APPLICANT: Lubbers, Mark W.
APPLICANT: Dekker, James
APPLICANT: Christenson, Anna C.
APPLICANT: Holland, Ross
APPLICANT: O'Toole, Paul W.
APPLICANT: Reid, Julian R.
APPLICANT: Coolbear, Timothy
TITLE OF INVENTION: Polynucleotides, materials incorporating
FILE REFERENCE: 11000.1043U1
CURRENT APPLICATION NUMBER: US/09/634,238
CURRENT FILING DATE: 2000-08-08
NUMBER OF SEQ ID NOS: 422
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 243
LENGTH: 319

TYPE: PRT
ORGANISM: Lactobacillus rhamnosus
US-09-634-238-243

Query Match 75.0%; Score 33; DB 2; Length 319;
Best Local Similarity 75.0%; Pred. No. 2e+02;
Matches 6; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 2 LQDIVLHL 9
||:|:|
Db 176 LQDIVLHL 183

RESULT 36
US-09-538-092-1256
Sequence 1256, Application US/09538092
Patent No. 6753314
GENERAL INFORMATION:
APPLICANT: Giot, Loic
APPLICANT: Mansfield, Traci A.
TITLE OF INVENTION: Protein-Protein Complexes and Method of Using Same
FILE REFERENCE: 15966-542
CURRENT APPLICATION NUMBER: US/09/538,092
CURRENT FILING DATE: 2000-03-29
PRIOR APPLICATION NUMBER: 60/127,352
PRIOR FILING DATE: 1999-04-01/178,965
PRIOR APPLICATION NUMBER: 60/178,965
PRIOR FILING DATE: 2000-02-01
NUMBER OF SEQ ID NOS: 1387
SOFTWARE: CuratSeqFormatter Version 0.9
SEQ ID NO 1256
LENGTH: 351
TYPE: PRT
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: misc:feature
LOCATION: (0)..(0)
OTHER INFORMATION: Polypeptide Accession Number Q02547
US-09-538-092-1256

Query Match 75.0%; Score 33; DB 2; Length 351;
Best Local Similarity 66.7%; Pred. No. 2.2e+02;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 TLQDIVLHL 9
||:|:|
Db 41 TLBDKLHL 49

RESULT 37
US-09-270-767-44068
Sequence 44068, Application US/09270767
Patent No. 6703491
GENERAL INFORMATION:
APPLICANT: Homburger et al.
TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
FILE REFERENCE: File Reference: 7326-094
CURRENT APPLICATION NUMBER: US/09/270,767
CURRENT FILING DATE: 1999-03-17
NUMBER OF SEQ ID NOS: 62517
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 44068
LENGTH: 405
TYPE: PRT
ORGANISM: Drosophila melanogaster
US-09-270-767-44068

Query Match 75.0%; Score 33; DB 2; Length 405;
Best Local Similarity 66.7%; Pred. No. 2.5e+02;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 TLQDIVLHL 9
||:|:|

```
Db      95 TLBDLKLHL 103

RESULT 38
US-09-252-991A-26180
; Sequence 26180, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252.991A
; PRIOR FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 26180
; LENGTH: 504
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-26180

Query Match      75.0%; Score 33; DB 2; Length 504;
Best Local Similarity 55.6%; Pred. No. 3.1e+02;
Matches 5; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

Qy      1 TLQDIVLHL 9
Db      182 TLKDVMLHLV 190

RESULT 39
US-09-543-681A-6902
; Sequence 6902, Application US/09543681A
; Patent No. 6605709
; GENERAL INFORMATION:
; APPLICANT: GARY BRETON
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PROTEUS MIRABILIS
; FILE REFERENCE: 2709.1002-001
; CURRENT APPLICATION NUMBER: US/09/543.681A
; PRIOR FILING DATE: 2000-04-05
; PRIOR APPLICATION NUMBER: US 60/128,706
; PRIOR FILING DATE: 1999-04-09
; NUMBER OF SEQ ID NOS: 8344
; SEQ ID NO 6902
; LENGTH: 700
; TYPE: PRT
; ORGANISM: Proteus mirabilis
US-09-543-681A-6902

Query Match      75.0%; Score 33; DB 2; Length 700;
Best Local Similarity 55.6%; Pred. No. 4.3e+02;
Matches 5; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

Qy      1 TLQDIVLHL 9
Db      37 TVEDLHLHL 45

RESULT 40
US-09-252-991A-21696
; Sequence 21696, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252.991A
```

```
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 21696
; LENGTH: 748
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-21696

Query Match      75.0%; Score 33; DB 2; Length 748;
Best Local Similarity 85.7%; Pred. No. 4.6e+02;
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy      3 QDLVHLHL 9
Db      552 QDLVHLHL 558

RESULT 41
US-09-270-767-59785
; Sequence 59785, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
; APPLICANT: Homburger et al.
; TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
; FILE REFERENCE: File Reference: 7326-094
; CURRENT APPLICATION NUMBER: US/09/270,767
; CURRENT FILING DATE: 1999-03-17
; NUMBER OF SEQ ID NOS: 62517
; SOFTWARE: Patentln Ver. 2.0
; SEQ ID NO 59785
; LENGTH: 1332
; TYPE: PRT
; ORGANISM: Drosophila melanogaster
; FEATURE:
; OTHER INFORMATION: Xaa means any amino acid
US-09-270-767-59785

Query Match      75.0%; Score 33; DB 2; Length 1332;
Best Local Similarity 75.0%; Pred. No. 8.3e+02;
Matches 6; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy      2 LQDIVLHL 9
Db      265 LBDLHLHL 272

RESULT 42
US-09-722-139-2
; Sequence 2, Application US/09722139
; Patent No. 6355471
; GENERAL INFORMATION:
; APPLICANT: Berard, Christophe
; APPLICANT: Freedman, Richard
; TITLE OF INVENTION: No. 6355471el motor proteins and methods for
; FILE REFERENCE: 1055
; CURRENT APPLICATION NUMBER: US/09/722,139
; CURRENT FILING DATE: 2000-11-24
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2
; LENGTH: 1375
; TYPE: PRT
; ORGANISM: Human
US-09-722-139-2

Query Match      75.0%; Score 33; DB 2; Length 1375;
Best Local Similarity 87.5%; Pred. No. 8.5e+02;
Matches 7; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

Oy 1 TLQDVLH 8
| | | | |
Db 470 TEQDVLH 477

RESULT 43
US-09-721-832-2
; Sequence 2, Application US/09721832
; Patent No. 6399346
; GENERAL INFORMATION:
; APPLICANT: Beraud, Christophe
; APPLICANT: Freedman, Richard
; TITLE OF INVENTION: No. 6399346e1 motor proteins and methods for
; TITLE OF INVENTION: their use
; FILE REFERENCE: 1055
; CURRENT APPLICATION NUMBER: US/09/721.832
; CURRENT FILING DATE: 2000-11-24
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2
; LENGTH: 1375
; TYPE: PRT
; ORGANISM: Human
US-09-721-832-2

Query Match 75.0%; Score 33; DB 2; Length 1375;
Best Local Similarity 87.5%; Pred. No. 8.5e+02;
Matches 7; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Oy 1 TLQDVLH 8
| | | | |
Db 470 TEQDVLH 477

RESULT 44
US-09-721-689-2
; Sequence 2, Application US/09721689
; Patent No. 6440685
; GENERAL INFORMATION:
; APPLICANT: Beraud, Christophe
; APPLICANT: Freedman, Richard
; TITLE OF INVENTION: No. 6440685e1 motor proteins and methods for
; TITLE OF INVENTION: their use
; FILE REFERENCE: 1055
; CURRENT APPLICATION NUMBER: US/09/721.689
; CURRENT FILING DATE: 2000-11-24
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2
; LENGTH: 1375
; TYPE: PRT
; ORGANISM: Human
US-09-721-689-2

Query Match 75.0%; Score 33; DB 2; Length 1375;
Best Local Similarity 87.5%; Pred. No. 8.5e+02;
Matches 7; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Oy 1 TLQDVLH 8
| | | | |
Db 470 TEQDVLH 477

RESULT 45
US-09-270-767-44362
; Sequence 44362, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
; APPLICANT: Homburger et al.
; TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
; FILE REFERENCE: File Reference: 7326-094
; CURRENT APPLICATION NUMBER: US/09/270,767

; CURRENT FILING DATE: 1999-03-17
; NUMBER OF SEQ ID NOS: 62517
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 44362
; LENGTH: 1607
; TYPE: PRT
; ORGANISM: Drosophila melanogaster
; FEATURE:
; OTHER INFORMATION: Xaa means any amino acid
US-09-270-767-44362

Query Match 75.0%; Score 33; DB 2; Length 1607;
Best Local Similarity 75.0%; Pred. No. 1e+03;
Matches 6; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Oy 2 LQDVLH 9
| | | | |
Db 404 LEDLHLH 411

RESULT 46
US-08-287-959-1
; Sequence 1, Application US/08287959
; Patent No. 5639651
; GENERAL INFORMATION:
; APPLICANT: Weisbach, Lawrence
; APPLICANT: Bernards, Andre
; APPLICANT: Settlemann, Jeffrey
; TITLE OF INVENTION: GAP-RELATED GENE
; NUMBER OF SEQUENCES: 26
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fish & Richardson
; STREET: 225 Franklin Street
; CITY: Boston
; STATE: MA
; COUNTRY: U.S.A.
; ZIP: 02110

COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/287,959
; FILING DATE: August 9, 1994
; CLASSIFICATION: 514
; ATTORNEY/AGENT INFORMATION:
; NAME: Clark, Paul C.
; REGISTRATION NUMBER: 30,162
; REFERENCE/DOCKET NUMBER: 00786/181001

TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 542-5070
; TELEFAX: (617) 542-8906
; TELEX: 200154
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1657 amino acids
; TYPE: amino acid
; TOPOLOGY: linear

; MOLECULE TYPE: protein
US-08-287-959-1

Query Match 75.0%; Score 33; DB 1; Length 1657;
Best Local Similarity 75.0%; Pred. No. 1e+03;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Oy 1 TLQDVLH 8
| | | | |
Db 926 TLQDVSH 933

RESULT 47
US-09-949-016-6427

```
; Sequence 6427, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH INFECTION WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: C1001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 6427
; LENGTH: 1657
; TYPE: PRT
; ORGANISM: Human
US-09-949-016-6427
```

```
Query Match 75.0%; Score 33; DB 2; Length 1657;
Best Local Similarity 75.0%; Pred. No. 1e+03;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
```

```
OY 1 TLQDIVH 8
Db 926 TLQDVVSH 933
```

```
RESULT 48
US-09-949-016-9445
; Sequence 9445, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH INFECTION WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: C1001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 9445
; LENGTH: 1678
; TYPE: PRT
; ORGANISM: Human
US-09-949-016-9445
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```
Query Match 75.0%; Score 33; DB 2; Length 1678;
Best Local Similarity 75.0%; Pred. No. 1e+03;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
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```
OY 1 TLQDIVH 8
Db 947 TLQDVVSH 954
```

```
RESULT 49
US-09-328-352-5728
; Sequence 5728, Application US/09328352
; Patent No. 6562958
; GENERAL INFORMATION:
; APPLICANT: Gary L. Breton et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO ACINETOBACTER
```

```
; TITLE OF INVENTION: BAUMANNII FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: C1009-03PA
; CURRENT APPLICATION NUMBER: US/09/328,352
; CURRENT FILING DATE: 1999-06-04
; NUMBER OF SEQ ID NOS: 8252
; SEQ ID NO 5728
; LENGTH: 250
; TYPE: PRT
; ORGANISM: Acinetobacter baumannii
US-09-328-352-5728
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```
Query Match 72.7%; Score 32; DB 2; Length 250;
Best Local Similarity 50.0%; Pred. No. 2.3e+02;
Matches 4; Conservative 4; Mismatches 0; Indels 0; Gaps 0;
```

```
OY 1 TLQDIVH 8
Db 217 SLQDVH 224
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```
RESULT 50
US-08-499-215-2
; Sequence 2, Application US/08499215
; Patent No. 5612204
; GENERAL INFORMATION:
; APPLICANT: Miura, Akira
; TITLE OF INVENTION: BIOLOGICAL DEGRADATIVE
; TITLE OF INVENTION: TREATMENT OF CHLORINE-SUBSTITUTED ETHYLENE
; NUMBER OF SEQUENCES: 5
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Sughrue, Mion, Zinn, Macpeak & Seas
; STREET: 2100 Pennsylvania Avenue
; CITY: N.W.
; STATE: Washington D.C.
; COUNTRY: U.S.A.
; ZIP: 20037-3202
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; SOFTWARE: & WordPerfect version 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/499,215
; FILING DATE:
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP Hei-6-179689
; FILING DATE: 08-JUL-1994
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 342 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-499-215-2
```

```
Query Match 72.7%; Score 32; DB 1; Length 342;
Best Local Similarity 87.5%; Pred. No. 3.2e+02;
Matches 7; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
OY 2 LQDIVH 9
Db 166 LQDIVH 173
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Job time : 25 secs
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GenCore version 5.1.7
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OM protein - protein search, using SW model

Run on: May 5, 2006, 08:07:45 ; Search time 55.8 Seconds
(without alignments)
67.392 Million cell updates/sec

Title: US-08-170-344-30
Perfect score: 44
Sequence: 1 TLQIDVLAHL 9

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1867569 seqs, 417829326 residues

Total number of hits satisfying chosen parameters: 1867569

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%

Listing first 1000 summaries

Database : Published Applications_AA_Main:*

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- 2: /cgn2_6/ptodata/1/pubppaa/US08_PUBSCOMB.pep:*
- 3: /cgn2_6/ptodata/1/pubppaa/US09_PUBSCOMB.pep:*
- 4: /cgn2_6/ptodata/1/pubppaa/US10A_PUBSCOMB.pep:*
- 5: /cgn2_6/ptodata/1/pubppaa/US10B_PUBSCOMB.pep:*
- 6: /cgn2_6/ptodata/1/pubppaa/US11_PUBSCOMB.pep:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

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1	44	100.0	9	4	US-10-052-578-315
2	44	100.0	9	4	US-10-053-520-315
3	44	100.0	9	4	US-10-053-4988-315
4	44	100.0	9	4	US-10-367-580-89
5	44	100.0	9	4	US-10-367-593-89
6	44	100.0	9	4	US-10-367-594-89
7	44	100.0	9	4	US-10-367-654-89
8	44	100.0	9	4	US-10-367-658-89
9	44	100.0	9	4	US-10-367-668-89
10	44	100.0	9	4	US-10-367-674-89
11	44	100.0	9	4	US-10-815-514-10
12	44	100.0	9	5	US-10-877-930-10
13	44	100.0	9	5	US-10-873-594-10
14	44	100.0	9	5	US-10-751-845-14
15	44	100.0	9	5	US-10-776-5218-68
16	44	100.0	9	5	US-10-820-0678-68
17	44	100.0	10	5	US-10-751-845-145
18	44	100.0	19	5	US-10-751-845-154
19	44	100.0	20	3	US-09-794-517-14
20	44	100.0	20	3	US-09-794-517-15
21	44	100.0	20	3	US-09-794-529-14
22	44	100.0	20	3	US-09-794-529-15
23	44	100.0	20	3	US-09-794-832-14
24	44	100.0	20	3	US-09-794-832-15
25	44	100.0	20	4	US-10-170-713A-14
26	44	100.0	20	4	US-10-170-713A-15
27	44	100.0	20	4	US-10-171-734-14

28	44	100.0	20	4	US-10-171-734-15	Sequence 15, App1
29	44	100.0	20	4	US-10-367-580-14	Sequence 14, App1
30	44	100.0	20	4	US-10-367-580-15	Sequence 15, App1
31	44	100.0	20	4	US-10-367-593-14	Sequence 14, App1
32	44	100.0	20	4	US-10-367-593-15	Sequence 15, App1
33	44	100.0	20	4	US-10-367-594-14	Sequence 14, App1
34	44	100.0	20	4	US-10-367-594-15	Sequence 15, App1
35	44	100.0	20	4	US-10-367-654-14	Sequence 14, App1
36	44	100.0	20	4	US-10-367-654-15	Sequence 15, App1
37	44	100.0	20	4	US-10-367-658-14	Sequence 14, App1
38	44	100.0	20	4	US-10-367-658-15	Sequence 15, App1
39	44	100.0	20	4	US-10-367-668-14	Sequence 14, App1
40	44	100.0	20	4	US-10-367-668-15	Sequence 15, App1
41	44	100.0	20	4	US-10-432-465-95	Sequence 95, App1
42	44	100.0	20	4	US-10-433-091-64	Sequence 64, App1
43	44	100.0	20	4	US-10-433-091-14	Sequence 14, App1
44	44	100.0	20	4	US-10-367-674-14	Sequence 14, App1
45	44	100.0	20	4	US-10-367-674-15	Sequence 15, App1
46	44	100.0	105	4	US-10-433-091-4	Sequence 4, App1
47	44	100.0	105	5	US-10-800-023-28	Sequence 28, App1
48	44	100.0	118	5	US-10-472-724-8	Sequence 8, App1
49	44	100.0	118	5	US-10-751-845-159	Sequence 159, App
50	44	100.0	227	4	US-10-000-903-16	Sequence 16, App1
51	44	100.0	227	4	US-10-000-903-19	Sequence 19, App1
52	44	100.0	227	5	US-10-899-771-16	Sequence 16, App1
53	44	100.0	227	5	US-10-899-771-19	Sequence 19, App1
54	44	100.0	237	5	US-10-751-845-157	Sequence 157, App
55	44	100.0	261	5	US-10-751-845-158	Sequence 158, App
56	44	100.0	261	5	US-10-751-845-160	Sequence 160, App
57	44	100.0	383	4	US-10-000-903-23	Sequence 23, App1
58	44	100.0	383	5	US-10-899-771-23	Sequence 23, App1
59	44	84.1	67	3	US-09-764-877-1170	Sequence 1170, Ap
60	44	84.1	67	4	US-10-242-207-55	Sequence 55, App1
61	44	84.1	693	3	US-10-496-207-55	Sequence 55, App1
62	36	81.8	42	6	US-11-040-661-7	Sequence 7, App1
63	36	81.8	579	4	US-10-262-794A-51	Sequence 51, App1
64	36	81.8	693	3	US-09-741-669-393	Sequence 393, App
65	36	81.8	923	5	US-10-450-763-44076	Sequence 44076, A
66	36	81.8	2516	3	US-09-817-514A-2	Sequence 2, App1
67	36	81.8	2516	4	US-10-262-794A-47	Sequence 47, App1
68	36	81.8	2516	4	US-10-706-744-2	Sequence 2, App1
69	36	81.8	2516	5	US-10-703-280-4	Sequence 4, App1
70	35	79.5	223	5	US-10-994-726-716	Sequence 716, App
71	35	79.5	254	5	US-10-994-726-715	Sequence 715, App
72	34	77.3	388	5	US-10-437-963-158925	Sequence 158925
73	34	77.3	361	3	US-09-989-442-126	Sequence 126, App
74	34	77.3	447	5	US-10-489-695-21	Sequence 21, App1
75	34	77.3	468	4	US-10-470-390A-18	Sequence 18, App1
76	34	77.3	468	5	US-10-489-695-22	Sequence 22, App1
77	34	77.3	500	4	US-10-203-875-4	Sequence 4, App1
78	34	77.3	500	4	US-10-297-639-5	Sequence 5, App1
79	34	77.3	573	4	US-10-262-794A-55	Sequence 55, App1
80	34	77.3	1391	4	US-10-753-901-10	Sequence 10, App1
81	34	77.3	1391	4	US-10-754-115-10	Sequence 10, App1
82	34	77.3	2504	3	US-09-817-514A-8	Sequence 8, App1
83	34	77.3	2504	4	US-10-262-794A-12	Sequence 12, App1
84	34	77.3	2504	4	US-10-754-115-59	Sequence 59, App1
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86	33	75.0	117	5	US-10-956-353-18	Sequence 18, App1
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88	33	75.0	155	5	US-10-450-763-33071	Sequence 33071, A
89	33	75.0	155	5	US-10-450-763-33071	Sequence 33071, A
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92	33	75.0	193	4	US-10-427-348-56	Sequence 56, App1
93	33	75.0	193	4	US-10-425-115-239708	Sequence 239708, A
94	33	75.0	229	4	US-10-450-763-40938	Sequence 40938, A
95	33	75.0	229	5	US-10-450-763-40938	Sequence 40938, A
96	33	75.0	239	5	US-09-997-003-46	Sequence 46, App1
97	33	75.0	244	4	US-10-282-122A-72559	Sequence 72559, A
98	33	75.0	269	3	US-09-925-301-1195	Sequence 1195, Ap
99	33	75.0	312	4	US-10-369-499-2598	Sequence 2598, Ap
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102	33	75.0	324	4	US-10-369-493-1269	Sequence 1269, Ap	175	32	72.7	2538	4	US-10-754-115-34	Sequence 31, Appl
103	33	75.0	324	4	US-10-369-493-20335	Sequence 20335, A	176	31	70.5	9	3	US-09-891-823-53	Sequence 53, Appl
104	33	75.0	327	4	US-10-369-493-3029	Sequence 3029, Ap	177	31	70.5	9	4	US-10-365-908-53	Sequence 53, Appl
105	33	75.0	328	4	US-10-369-493-31591	Sequence 31591, A	178	31	70.5	9	5	US-10-871-138-53	Sequence 53, Appl
106	33	75.0	345	4	US-10-369-646-4	Sequence 4, Appl1	179	31	70.5	10	3	US-09-891-823-69	Sequence 69, Appl
107	33	75.0	345	4	US-10-365-646-5	Sequence 5, Appl1	180	31	70.5	10	4	US-10-365-908-69	Sequence 69, Appl
108	33	75.0	350	6	US-11-097-143-5367	Sequence 5367, Ap	181	31	70.5	37	4	US-10-871-138-69	Sequence 69, Appl
109	33	75.0	351	3	US-09-997-003-33	Sequence 33, Appl	182	31	70.5	37	4	US-10-425-115-26631	Sequence 26631, Ap
110	33	75.0	351	5	US-10-965-898-12	Sequence 12, Appl	183	31	70.5	87	3	US-09-867-550-36	Sequence 36, Appl
111	33	75.0	378	5	US-10-450-763-1679	Sequence 41679, A	184	31	70.5	89	5	US-10-220-335-275	Sequence 275, App
112	33	75.0	391	5	US-10-450-763-51167	Sequence 51167, A	185	31	70.5	91	4	US-10-425-115-25157	Sequence 25157, Ap
113	33	75.0	398	4	US-10-369-493-21386	Sequence 21386, A	186	31	70.5	98	5	US-10-367-057-12	Sequence 12, Appl
114	33	75.0	400	5	US-10-450-763-47718	Sequence 47718, A	187	31	70.5	119	4	US-10-424-599-237342	Sequence 237342, Ap
115	33	75.0	400	5	US-10-450-763-52793	Sequence 52793, A	188	31	70.5	121	4	US-10-425-115-179160	Sequence 179160, Ap
116	33	75.0	420	5	US-10-450-763-4287	Sequence 4287, A	189	31	70.5	132	4	US-10-389-647-646	Sequence 646, App
117	33	75.0	431	4	US-10-311-626-9	Sequence 9, Appl1	190	31	70.5	154	4	US-10-425-114-54001	Sequence 54001, A
118	33	75.0	440	5	US-10-478-019-170	Sequence 170, App	191	31	70.5	187	3	US-09-764-691-4174	Sequence 4174, Ap
119	33	75.0	503	5	US-10-732-923-13521	Sequence 13521, A	192	31	70.5	188	5	US-10-450-763-30482	Sequence 30482, A
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122	33	75.0	544	5	US-10-450-763-35688	Sequence 35688, A	195	31	70.5	226	4	US-10-424-599-176258	Sequence 176258, Ap
123	33	75.0	544	5	US-10-450-763-47717	Sequence 47717, A	196	31	70.5	231	4	US-10-425-115-369020	Sequence 369020, Ap
124	33	75.0	550	5	US-10-450-763-40946	Sequence 40946, A	197	31	70.5	243	4	US-10-437-963-188043	Sequence 188043, Ap
125	33	75.0	580	5	US-10-450-763-58518	Sequence 58518, A	198	31	70.5	289	4	US-10-223-074-8	Sequence 8, Appl1
126	33	75.0	621	5	US-10-450-763-51158	Sequence 51158, A	199	31	70.5	310	4	US-10-369-493-17283	Sequence 17283, A
127	33	75.0	697	5	US-10-450-763-40926	Sequence 40926, A	200	31	70.5	330	5	US-10-501-282-4052	Sequence 4052, Ap
128	33	75.0	697	5	US-10-450-763-33993	Sequence 43993, A	201	31	70.5	339	5	US-10-501-282-4054	Sequence 4054, Ap
129	33	75.0	779	5	US-10-450-763-36165	Sequence 36165, A	202	31	70.5	330	4	US-10-012-952A-223	Sequence 231, App
130	33	75.0	930	5	US-10-450-763-40953	Sequence 40953, A	203	31	70.5	330	4	US-10-108-260A-4361	Sequence 4365, Ap
131	33	75.0	944	4	US-10-108-260A-3066	Sequence 3086, Ap	204	31	70.5	335	5	US-10-501-282-4056	Sequence 4056, Ap
132	33	75.0	1001	5	US-10-450-763-47711	Sequence 47711, A	205	31	70.5	330	4	US-10-260-715-10	Sequence 10, Appl
133	33	75.0	1035	5	US-10-450-763-35678	Sequence 35678, A	206	31	70.5	330	4	US-10-365-646-2	Sequence 2, Appl1
134	33	75.0	1142	5	US-10-450-763-35673	Sequence 35673, A	207	31	70.5	330	4	US-10-368-087-13	Sequence 13, Appl
135	33	75.0	1361	5	US-10-450-763-43990	Sequence 43990, A	208	31	70.5	330	4	US-10-368-087-14	Sequence 14, Appl
136	33	75.0	1361	5	US-10-450-763-47713	Sequence 47713, A	209	31	70.5	330	4	US-10-108-260A-3475	Sequence 3475, Ap
137	33	75.0	1392	4	US-10-287-226-86	Sequence 86, Appl	210	31	70.5	330	4	US-10-467-685-9	Sequence 9, Appl1
138	33	75.0	1392	4	US-10-473-574-27	Sequence 27, Appl	211	31	70.5	330	5	US-10-491-188-10	Sequence 10, Appl
139	33	75.0	1394	4	US-10-287-226-84	Sequence 84, Appl	212	31	70.5	331	4	US-10-767-701-46294	Sequence 46294, A
140	33	75.0	1657	4	US-10-408-765A-494	Sequence 494, App	213	31	70.5	331	4	US-10-425-115-218172	Sequence 218172, A
141	33	75.0	1657	5	US-10-733-969A-25	Sequence 25, Appl	214	31	70.5	332	4	US-10-424-599-168115	Sequence 168115, A
142	33	75.0	1657	5	US-10-826-909-36	Sequence 36, Appl	215	31	70.5	335	5	US-10-450-763-46012	Sequence 46012, A
143	32	72.7	85	4	US-10-012-6008-186	Sequence 186, App	216	31	70.5	331	4	US-10-282-122A-71379	Sequence 71379, A
144	32	72.7	113	5	US-10-450-763-46084	Sequence 46084, A	217	31	70.5	335	4	US-10-425-114-47515	Sequence 47515, A
145	32	72.7	131	4	US-10-424-599-145365	Sequence 145365, A	218	31	70.5	338	5	US-10-450-763-41200	Sequence 41200, A
146	32	72.7	164	4	US-10-425-115-87597	Sequence 287597, A	219	31	70.5	404	6	US-11-097-143-13188	Sequence 13188, A
147	32	72.7	287	4	US-10-369-493-3517	Sequence 3517, Ap	220	31	70.5	405	4	US-10-369-493-3698	Sequence 8698, Ap
148	32	72.7	236	4	US-10-080-960-19	Sequence 19, Appl	221	31	70.5	430	4	US-10-236-4117-54	Sequence 54, Appl
149	32	72.7	312	4	US-10-335-977-6715	Sequence 6715, App	222	31	70.5	432	4	US-10-425-114-66583	Sequence 66583, A
150	32	72.7	380	4	US-10-335-977-6716	Sequence 6716, Ap	223	31	70.5	433	5	US-10-450-763-44661	Sequence 44661, A
151	32	72.7	445	6	US-11-097-143-4236	Sequence 4236, Ap	224	31	70.5	438	5	US-10-994-726-18	Sequence 18, Appl
152	32	72.7	447	4	US-10-369-493-5790	Sequence 5790, Ap	225	31	70.5	439	4	US-10-236-4117-56	Sequence 56, Appl
153	32	72.7	454	4	US-10-282-122A-52156	Sequence 52156, A	226	31	70.5	439	4	US-10-425-115-218178	Sequence 218178, A
154	32	72.7	477	4	US-10-282-122A-51178	Sequence 51178, A	227	31	70.5	440	4	US-10-236-4117-52	Sequence 52, Appl
155	32	72.7	502	4	US-10-104-047-3860	Sequence 3860, Ap	228	31	70.5	449	4	US-10-425-114-66394	Sequence 63994, A
156	32	72.7	543	6	US-11-097-143-51225	Sequence 21225, A	229	31	70.5	456	4	US-10-369-493-2833	Sequence 2833, Ap
157	32	72.7	642	4	US-10-276-774-1884	Sequence 1884, Ap	230	31	70.5	460	4	US-10-106-698-4771	Sequence 4771, Ap
158	32	72.7	860	4	US-10-425-115-442800	Sequence 342800, A	231	31	70.5	463	5	US-10-994-726-17	Sequence 17, Appl
159	32	72.7	900	6	US-11-097-143-15243	Sequence 15243, A	232	31	70.5	506	4	US-10-437-963-16565	Sequence 162655, A
160	32	72.7	927	5	US-10-840-512-187	Sequence 187, App	233	31	70.5	517	5	US-10-475-203A-12	Sequence 12, Appl
161	32	72.7	929	4	US-10-060-841-3	Sequence 3, Appl1	234	31	70.5	534	4	US-10-437-963-193906	Sequence 193906, A
162	32	72.7	929	4	US-10-288-798-11	Sequence 11, Appl	235	31	70.5	564	4	US-10-437-963-188140	Sequence 188140, A
163	32	72.7	929	4	US-10-362-692-11	Sequence 11, Appl	236	31	70.5	668	3	US-09-975-719-221	Sequence 221, App
164	32	72.7	929	4	US-10-618-941-105	Sequence 105, App	237	31	70.5	764	4	US-10-570-875-15	Sequence 15, Appl
165	32	72.7	1273	6	US-11-020-848-6	Sequence 6, Appl1	238	31	70.5	764	4	US-10-270-786-15	Sequence 15, Appl
166	32	72.7	1660	4	US-10-437-963-110032	Sequence 110032, A	239	31	70.5	764	4	US-10-270-786-15	Sequence 15, Appl
167	32	72.7	2158	5	US-10-739-930-5650	Sequence 5650, Ap	240	31	70.5	764	4	US-10-270-785-15	Sequence 15, Appl
168	32	72.7	2499	4	US-10-706-424-4	Sequence 4, Appl1	241	31	70.5	764	4	US-10-270-859-15	Sequence 15, Appl
169	32	72.7	2523	4	US-10-753-901-14	Sequence 14, Appl	242	31	70.5	764	4	US-10-270-846-15	Sequence 15, Appl
170	32	72.7	2523	4	US-10-754-115-14	Sequence 14, Appl	243	31	70.5	804	4	US-10-108-260A-3112	Sequence 3112, Ap
171	32	72.7	2534	6	US-11-020-848-11	Sequence 11, Appl	244	31	70.5	1017	4	US-10-369-493-17877	Sequence 17877, A
172	32	72.7	2538	4	US-10-609-113-49	Sequence 49, Appl	245	31	70.5	1212	4	US-10-320-797-3351	Sequence 3351, Ap
173	32	72.7	2538	4	US-10-753-901-20	Sequence 20, Appl	246	31	70.5	1356	4	US-10-114-270-78	Sequence 78, Appl

247	31	70.5	1638	6	US-11-097-143-5886	Sequence 5886, Ap	320	30	68.2	342	5	US-10-805-684-95	Sequence 95, Appl
248	31	70.5	1756	5	US-10-450-763-34834	Sequence 34834, A	321	30	68.2	342	5	US-10-952-460-8	Sequence 8, Appl
249	31	70.5	2093	4	US-10-032-585-7665	Sequence 7665, Ap	322	30	68.2	344	5	US-10-435-696-77	Sequence 77, Appl
250	31	70.5	2177	4	US-10-706-424-6	Sequence 6, Appl	323	30	68.2	344	5	US-10-952-460-6	Sequence 6, Appl
251	30	68.2	52	4	US-10-424-599-143510	Sequence 143510,	324	30	68.2	350	3	US-09-738-626-4030	Sequence 4030, Ap
252	30	68.2	59	4	US-10-424-599-18281	Sequence 218261,	325	30	68.2	350	3	US-10-627-476-258	Sequence 258, Ap
253	30	68.2	61	4	US-10-424-599-154497	Sequence 154497,	326	30	68.2	358	3	US-09-738-626-5457	Sequence 5457, Ap
254	30	68.2	64	4	US-10-425-115-267926	Sequence 267926,	327	30	68.2	358	5	US-10-494-674-96	Sequence 96, Appl
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256	30	68.2	89	4	US-10-425-115-230662	Sequence 230662,	329	30	68.2	361	5	US-10-732-923-6387	Sequence 6387, Ap
257	30	68.2	92	4	US-10-425-115-142118	Sequence 142118,	330	30	68.2	390	3	US-09-925-301-1284	Sequence 1284, Ap
258	30	68.2	98	5	US-10-501-282-2662	Sequence 2662, Ap	331	30	68.2	410	4	US-10-106-698-4615	Sequence 4615, Ap
259	30	68.2	105	4	US-10-425-115-224980	Sequence 224980,	332	30	68.2	410	5	US-10-424-599-226038	Sequence 226038
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262	30	68.2	120	3	US-09-898-751A-14	Sequence 87, Appl	335	30	68.2	443	5	US-10-779-597-3	Sequence 3, Appl
263	30	68.2	120	3	US-09-792-793A-87	Sequence 87, Appl	336	30	68.2	443	5	US-10-104-047-3033	Sequence 3033, Ap
264	30	68.2	120	4	US-10-146-496-8	Sequence 8, Appl	337	30	68.2	441	3	US-09-738-626-5611	Sequence 5611, Ap
265	30	68.2	120	4	US-10-375-209A-87	Sequence 8, Appl	338	30	68.2	442	4	US-10-425-115-366742	Sequence 366742,
266	30	68.2	121	4	US-10-424-599-267510	Sequence 267510,	339	30	68.2	452	4	US-10-282-122A-45317	Sequence 45317, A
267	30	68.2	121	4	US-10-425-115-267005	Sequence 267005,	340	30	68.2	456	3	US-09-815-242-12166	Sequence 12166, A
268	30	68.2	121	4	US-10-425-115-262595	Sequence 262595,	341	30	68.2	456	3	US-10-815-242-12928	Sequence 12928, A
269	30	68.2	135	4	US-10-425-115-191809	Sequence 191809,	342	30	68.2	456	3	US-10-282-122A-43986	Sequence 43986, A
270	30	68.2	142	4	US-10-425-114-48007	Sequence 48007, A	343	30	68.2	462	4	US-10-282-122A-60508	Sequence 60508, A
271	30	68.2	161	4	US-10-437-963-135529	Sequence 135529,	344	30	68.2	464	4	US-10-282-122A-45325	Sequence 45325, A
272	30	68.2	162	3	US-09-898-751A-8	Sequence 8, Appl	345	30	68.2	465	4	US-10-369-493-23083	Sequence 23083, Ap
273	30	68.2	164	4	US-10-146-496-12	Sequence 12, Appl	346	30	68.2	466	5	US-10-739-920-5885	Sequence 5885, Ap
274	30	68.2	175	4	US-10-424-599-236953	Sequence 236953,	347	30	68.2	468	4	US-10-437-963-157447	Sequence 157447,
275	30	68.2	180	4	US-10-424-599-276085	Sequence 276085,	348	30	68.2	485	4	US-10-142-221-88	Sequence 88, Appl
276	30	68.2	181	4	US-10-767-701-59627	Sequence 59627, A	349	30	68.2	485	4	US-10-356-153-88	Sequence 88, Appl
277	30	68.2	181	5	US-10-988-628-1	Sequence 1, Appl	350	30	68.2	485	5	US-10-884-115-88	Sequence 1081, Ap
278	30	68.2	184	5	US-10-988-628-4	Sequence 4, Appl	351	30	68.2	485	5	US-10-732-923-1081	Sequence 9508, Ap
279	30	68.2	184	5	US-10-988-628-5	Sequence 5, Appl	352	30	68.2	499	5	US-10-739-920-9508	Sequence 9024, A
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281	30	68.2	193	4	US-10-282-122A-44245	Sequence 54245, A	354	30	68.2	517	5	US-10-450-763-43988	Sequence 43988, A
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283	30	68.2	197	4	US-10-282-122A-46194	Sequence 46194, A	356	30	68.2	562	4	US-10-262-794A-30	Sequence 30, Appl
284	30	68.2	203	3	US-09-791-279-138	Sequence 138, App	357	30	68.2	568	4	US-10-408-765A-1808	Sequence 1808, Ap
285	30	68.2	218	5	US-10-450-763-59903	Sequence 59903, A	358	30	68.2	584	5	US-10-450-763-43994	Sequence 43994, A
286	30	68.2	219	5	US-10-739-930-8266	Sequence 8266, Ap	359	30	68.2	589	4	US-10-425-115-208806	Sequence 208806,
287	30	68.2	225	4	US-10-091-007-76	Sequence 76, Appl	360	30	68.2	602	4	US-10-481-596-10	Sequence 10, Appl
288	30	68.2	243	5	US-10-644-765-300	Sequence 300, App	361	30	68.2	604	4	US-10-437-963-119228	Sequence 119228,
289	30	68.2	247	5	US-10-952-460-24	Sequence 24, Appl	362	30	68.2	605	4	US-10-205-331-41	Sequence 44, Appl
290	30	68.2	248	4	US-10-369-493-214	Sequence 214, App	363	30	68.2	607	4	US-10-150-440-2	Sequence 2, Appl
291	30	68.2	252	4	US-10-425-114-62468	Sequence 62468, A	364	30	68.2	615	5	US-10-978-282-14	Sequence 14, Appl
292	30	68.2	253	4	US-10-425-114-53145	Sequence 53145, A	365	30	68.2	618	4	US-10-425-114-43260	Sequence 43260, A
293	30	68.2	254	4	US-10-425-114-14468	Sequence 41468, A	366	30	68.2	644	3	US-10-425-114-45511	Sequence 45511, A
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297	30	68.2	264	3	US-09-939-980-477	Sequence 477, App	370	30	68.2	649	5	US-10-473-127-455	Sequence 455, App
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299	30	68.2	269	4	US-10-724-972A-5338	Sequence 5538, Ap	372	30	68.2	649	5	US-10-473-127-461	Sequence 461, App
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302	30	68.2	279	6	US-10-097-143-4356	Sequence 4356, Ap	375	30	68.2	654	5	US-09-969-528-10	Sequence 10, Appl
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306	30	68.2	294	5	US-10-805-684-65	Sequence 65, Appl	379	30	68.2	764	4	US-10-235-994-20	Sequence 14, Appl
307	30	68.2	308	5	US-10-805-684-64	Sequence 64, Appl	380	30	68.2	780	5	US-10-631-467-14	Sequence 1456, Ap
308	30	68.2	308	5	US-10-437-963-150765	Sequence 150765,	381	30	68.2	780	5	US-10-631-467-156	Sequence 163096,
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311	30	68.2	322	4	US-10-282-122A-63249	Sequence 63249, A	384	30	68.2	809	3	US-09-855-828-11	Sequence 3409, Ap
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313	30	68.2	324	5	US-10-952-460-4	Sequence 4, Appl	386	30	68.2	816	4	US-10-369-493-3409	Sequence 7663, Ap
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315	30	68.2	326	4	US-10-268-473-8	Sequence 8, Appl	388	30	68.2	844	4	US-10-156-761-7663	Sequence 2647, Ap
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395	30	68.2	1019	4	US-10-080-334-8	Sequence 8, App1	468	29	65.9	131	4	US-10-425-115-326412	Sequence 326412,
396	30	68.2	1019	4	US-10-080-334-10	Sequence 10, App1	469	29	65.9	132	4	US-10-425-115-3200961	Sequence 3200961,
397	30	68.2	1019	4	US-10-080-334-106	Sequence 106, App	470	29	65.9	133	5	US-10-474-792-84	Sequence 84, App1
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399	30	68.2	1019	4	US-10-080-334-108	Sequence 108, App	472	29	65.9	137	4	US-10-425-115-217071	Sequence 217071,
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402	30	68.2	1019	4	US-10-080-334-133	Sequence 133, App	475	29	65.9	149	3	US-09-851-138-52	Sequence 52, App1
403	30	68.2	1019	4	US-10-712-124-32	Sequence 32, App1	476	29	65.9	159	4	US-10-651-165-284	Sequence 284, App
404	30	68.2	1189	4	US-10-262-794A-26	Sequence 26, App1	477	29	65.9	166	4	US-10-425-115-209956	Sequence 209956,
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410	30	68.2	2381	4	US-10-706-424-8	Sequence 8, App1	483	29	65.9	167	3	US-09-764-853-528	Sequence 528, App
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419	29	65.9	44	3	US-09-894-882-491	Sequence 491, App	492	29	65.9	189	3	US-09-764-864-125577	Sequence 125577, Ap
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421	29	65.9	44	3	US-09-894-882-493	Sequence 493, App	494	29	65.9	198	3	US-09-801-944B-170	Sequence 170, App
422	29	65.9	44	3	US-09-894-882-494	Sequence 494, App	495	29	65.9	199	4	US-10-425-115-217320	Sequence 217320,
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429	29	65.9	44	5	US-10-894-314A-495	Sequence 495, App	502	29	65.9	246	4	US-10-425-114-57207	Sequence 57207, A
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431	29	65.9	59	4	US-10-264-049-4003	Sequence 4003, Ap	504	29	65.9	247	4	US-10-091-007-36	Sequence 36, App1
432	29	65.9	64	4	US-10-437-963-107507	Sequence 107507, A	505	29	65.9	247	4	US-10-340-792-4	Sequence 4, App1
433	29	65.9	66	4	US-10-424-599-249676	Sequence 249676, A	506	29	65.9	248	4	US-10-369-493-747	Sequence 747, App
434	29	65.9	66	4	US-10-425-115-253394	Sequence 253394, A	507	29	65.9	250	3	US-09-764-847-757	Sequence 757, App
435	29	65.9	70	3	US-09-894-882-235	Sequence 235, App	508	29	65.9	250	4	US-10-092-154-757	Sequence 757, App
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437	29	65.9	70	3	US-09-894-882-253	Sequence 253, App	510	29	65.9	263	3	US-09-825-300-1253	Sequence 1293, Ap
438	29	65.9	70	3	US-09-894-882-256	Sequence 256, App	511	29	65.9	271	4	US-10-061-043A-42	Sequence 42, App1
439	29	65.9	70	5	US-10-894-314A-235	Sequence 235, App	512	29	65.9	272	4	US-10-060-634C-42	Sequence 42, App1
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441	29	65.9	70	5	US-10-894-314A-245	Sequence 245, App	514	29	65.9	272	4	US-10-061-043A-17	Sequence 17, App1
442	29	65.9	70	5	US-10-894-314A-255	Sequence 255, App	515	29	65.9	272	4	US-10-060-634C-17	Sequence 17, App1
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444	29	65.9	70	5	US-10-894-314A-262	Sequence 262, App	517	29	65.9	272	6	US-11-073-485-46	Sequence 46, App1
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459	29	65.9	109	6	US-11-112-701-17	Sequence 17, App1	532	29	65.9	346	4	US-10-027-805-34	Sequence 34, App1
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549	29	65.9	393	4	US-10-425-115-217322	Sequence 217322, A	622	29	65.9	1050	4	US-10-408-765A-2069	Sequence 2069, Ap
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551	29	65.9	394	4	US-10-437-963-193074	Sequence 193074, A	624	29	65.9	1050	5	US-10-723-860-4468	Sequence 4468, Ap
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596	29	65.9	668	4	US-10-369-493-8819	Sequence 8819, Ap	669	29	65.9	4968	4	US-10-668-767-61	Sequence 30390, A
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849	28	63.6	356	4	US-10-369-493-13505	Sequence 13505, A	922	28	63.6	500	4	US-10-796-667-25	Sequence 25, Appl
850	28	63.6	367	4	US-10-029-386-33543	Sequence 33543, A	923	28	63.6	501	3	US-09-846-589A-24	Sequence 24, Appl
851	28	63.6	367	4	US-10-437-963-163731	Sequence 163731,	924	28	63.6	501	4	US-10-796-667-24	Sequence 24, App
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863	28	63.6	403	4	US-10-374-780A-2056	Sequence 2056, Ap	936	28	63.6	512	4	US-10-369-493-10428	Sequence 10428, A
864	28	63.6	403	4	US-10-412-699B-482	Sequence 482, App	937	28	63.6	514	4	US-10-375-010-18	Sequence 18, Appl
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982 28 63.6 628 5 US-10-501-282-5826 Sequence 5826, Ap
983 28 63.6 630 6 US-11-097-143-13143 Sequence 13143, A
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996 28 63.6 725 4 US-10-311-776-4 Sequence 4, Appl1
997 28 63.6 726 5 US-10-872-198-120 Sequence 120, App
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999 28 63.6 727 4 US-10-149-103A-1 Sequence 1, Appl1
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ALIGNMENTS

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; Sequence 315, Application US/10052578
; Publication No. US20030134787A1
; GENERAL INFORMATION:
; APPLICANT: Sloan-Kettering Institute for Cancer Research
; APPLICANT: Rothman, James E.
; APPLICANT: Mayhew, Mark
; APPLICANT: Hoe, Mee H.
; APPLICANT: Houghton, Alan
; APPLICANT: Hartl, Ulrich
; APPLICANT: Querfelli, Quathex
; APPLICANT: Moroi, Yoichi
; TITLE OF INVENTION: CONJUGATE HEAT SHOCK PROTEIN-BINDING PEPTIDES
; FILE REFERENCE: 11746/46003
; CURRENT APPLICATION NUMBER: US/10/052,578
; CURRENT FILING DATE: 2002-01-17
; PRIOR APPLICATION NUMBER: 08/961,707
; PRIOR FILING DATE: 1997-10-31
; NUMBER OF SEQ ID NOS: 321
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; LENGTH: 9
; TYPE: PRT
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; FEATURE:
; OTHER INFORMATION: peptide in m13 coliphage
US-10-052-578-315

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Best Local Similarity 100.0%; Pred. No. 1.7e+06;
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QY 1 TLQDIVLHL 9
DB 1 TLQDIVLHL 9

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; Publication No. US2003016530A1
; GENERAL INFORMATION:
; APPLICANT: Sloan-Kettering Institute for Cancer Research
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; APPLICANT: Rothman, James E.
; APPLICANT: Mayhew, Mark
; APPLICANT: Hoe, Mee H.
; APPLICANT: Houghton, Alan
; APPLICANT: Hartl, Ulrich
; APPLICANT: Querfelli, Quathex
; APPLICANT: Moroi, Yoichi
; TITLE OF INVENTION: CONJUGATE HEAT SHOCK PROTEIN-BINDING PEPTIDES
; FILE REFERENCE: 11746/46004
; CURRENT APPLICATION NUMBER: US/10/053,520
; CURRENT FILING DATE: 2002-10-01
; PRIOR APPLICATION NUMBER: 08/961,707
; PRIOR FILING DATE: 1997-10-31
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US-10-053-520-315

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QY 1 TLQDIVLHL 9
DB 1 TLQDIVLHL 9

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; Publication No. US20030194409A1
; GENERAL INFORMATION:
; APPLICANT: Sloan-Kettering Institute for Cancer Research
; APPLICANT: Rothman, James E.
; APPLICANT: Mayhew, Mark
; APPLICANT: Hoe, Mee H.
; APPLICANT: Houghton, Alan
; APPLICANT: Hartl, Ulrich
; APPLICANT: Querfelli, Quathex
; APPLICANT: Moroi, Yoichi
; TITLE OF INVENTION: CONJUGATE HEAT SHOCK PROTEIN-BINDING PEPTIDES
; FILE REFERENCE: 11746/46002
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US-10-053-498B-315

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DB 1 TLQDIVLHL 9

RESULT 4
US-10-367-580-89
; Sequence 89, Application US/10367580
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; Publication No. US20040071720A1
; GENERAL INFORMATION:
; APPLICANT: Rothman, James E.
; APPLICANT: Hartl, F. Ulrich
; APPLICANT: Hoe, Mee H.
; APPLICANT: Houghton, Alan
; APPLICANT: Takechi, Yoshizumi
; APPLICANT: Mayhew, Mark
; TITLE OF INVENTION: Heat Shock Protein-Based Vaccines and Immunotherapies
; FILE REFERENCE: 11746/461061
; CURRENT APPLICATION NUMBER: US/10/367,580
; PRIOR FILING DATE: 2003-02-14
; PRIOR APPLICATION NUMBER: US 09/794,832
; PRIOR FILING DATE: 2001-02-27
; PRIOR APPLICATION NUMBER: US 09/011,645
; PRIOR FILING DATE: 1998-02-13
; PRIOR APPLICATION NUMBER: PCT/US96/13363
; PRIOR FILING DATE: 1996-08-16
; PRIOR APPLICATION NUMBER: US 60/002,490
; PRIOR FILING DATE: 1995-08-18
; PRIOR APPLICATION NUMBER: US 60/002,479
; PRIOR FILING DATE: 1995-08-18
; NUMBER OF SEQ ID NOS: 349
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; OTHER INFORMATION: synthetic peptide
US-10-367-580-89

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Db      1 TLQDIVLHL 9

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; APPLICANT: Rothman, James E.
; APPLICANT: Hartl, F. Ulrich
; APPLICANT: Hoe, Mee H.
; APPLICANT: Houghton, Alan
; APPLICANT: Takechi, Yoshizumi
; APPLICANT: Mayhew, Mark
; TITLE OF INVENTION: Heat Shock Protein-Based Vaccines and Immunotherapies
; FILE REFERENCE: 11746/461012
; CURRENT APPLICATION NUMBER: US/10/367,593
; PRIOR FILING DATE: 2003-02-14
; PRIOR APPLICATION NUMBER: US 09/011,645
; PRIOR FILING DATE: 1998-02-13
; PRIOR APPLICATION NUMBER: PCT/US96/13363
; PRIOR FILING DATE: 1996-08-16
; PRIOR APPLICATION NUMBER: US 60/002,490
; PRIOR FILING DATE: 1995-08-18
; PRIOR APPLICATION NUMBER: US 60/002,479
; PRIOR FILING DATE: 1995-08-18
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US-10-367-593-89

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Db      1 TLQDIVLHL 9

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; Publication No. US20040071723A1
; GENERAL INFORMATION:
; APPLICANT: Rothman, James E.
; APPLICANT: Hartl, F. Ulrich
; APPLICANT: Hoe, Mee H.
; APPLICANT: Houghton, Alan
; APPLICANT: Takechi, Yoshizumi
; APPLICANT: Mayhew, Mark
; TITLE OF INVENTION: Heat Shock Protein-Based Vaccines and Immunotherapies
; FILE REFERENCE: 11746/461032
; CURRENT APPLICATION NUMBER: US/10/367,654
; PRIOR FILING DATE: 2003-02-14
; PRIOR APPLICATION NUMBER: US 10/171,734
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; PRIOR FILING DATE: 2000-08-10
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Query Match          100.0%; Score 44; DB 4; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.7e+06;
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Qy      1 TLQDIVLHL 9
Db      1 TLQDIVLHL 9

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; APPLICANT: Rothman, James E.
; APPLICANT: Hartl, F. Ulrich
; APPLICANT: Hoe, Mee H.
; APPLICANT: Houghton, Alan
; APPLICANT: Takechi, Yoshizumi
; APPLICANT: Mayhew, Mark
; TITLE OF INVENTION: Heat Shock Protein-Based Vaccines and Immunotherapies
; FILE REFERENCE: 11746/461041
; CURRENT APPLICATION NUMBER: US/10/367,594
; PRIOR FILING DATE: 2003-02-14
; PRIOR APPLICATION NUMBER: US 09/680,806
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; PRIOR APPLICATION NUMBER: US 60/002,490
; PRIOR FILING DATE: 1995-08-18
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US-10-367-594-89

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Best Local Similarity 100.0%; Pred. No. 1.7e+06;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1 TLQDIVLHL 9
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US-10-367-654-89
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; Publication No. US20040071723A1
; GENERAL INFORMATION:
; APPLICANT: Rothman, James E.
; APPLICANT: Hartl, F. Ulrich
; APPLICANT: Hoe, Mee H.
; APPLICANT: Houghton, Alan
; APPLICANT: Takechi, Yoshizumi
; APPLICANT: Mayhew, Mark
; TITLE OF INVENTION: Heat Shock Protein-Based Vaccines and Immunotherapies
; FILE REFERENCE: 11746/461032
; CURRENT APPLICATION NUMBER: US/10/367,654
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;; PRIOR APPLICATION NUMBER: US 60/002,479
;; PRIOR FILING DATE: 1995-08-18
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;; FEATURE:
;; OTHER INFORMATION: synthetic peptide
US-10-367-654-89

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Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TL0DIVLHL 9
Db 1 TL0DIVLHL 9

RESULT 8
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;; Publication No. US20040071724A1
;; GENERAL INFORMATION:
;; APPLICANT: Rothman, James E.
;; APPLICANT: Hartl, F. Ulrich
;; APPLICANT: Hoe, Mee H.
;; APPLICANT: Houghton, Alan
;; APPLICANT: Takeuchi, Yoshizumi
;; APPLICANT: Mayhew, Mark
;; TITLE OF INVENTION: Heat Shock Protein-Based Vaccines and Immunotherapies
;; FILE REFERENCE: 11746/461051
;; CURRENT APPLICATION NUMBER: US/10/367,658
;; PRIOR FILING DATE: 2003-02-14
;; PRIOR APPLICATION NUMBER: US 09/794,529
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;; PRIOR FILING DATE: 1998-02-13
;; PRIOR APPLICATION NUMBER: PCT/US96/13363
;; PRIOR FILING DATE: 1996-08-16
;; PRIOR APPLICATION NUMBER: US 60/002,490
;; PRIOR FILING DATE: 1995-08-18
;; PRIOR APPLICATION NUMBER: US 60/002,479
;; PRIOR FILING DATE: 1995-08-18
;; NUMBER OF SEQ ID NOS: 349
;; SOFTWARE: WordPerfect 8.0 for Windows
;; SEQ ID NO 89
;; LENGTH: 9
;; TYPE: PRT
;; ORGANISM: Artificial Sequence
;; FEATURE:
;; OTHER INFORMATION: synthetic peptide
US-10-367-658-89

Query Match 100.0%; Score 44; DB 4; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.7e+06;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TL0DIVLHL 9
Db 1 TL0DIVLHL 9

RESULT 9
US-10-367-668-89

;; Sequence 89, Application US/10367668
;; Publication No. US20040071725A1
;; GENERAL INFORMATION:
;; APPLICANT: Rothman, James E.
;; APPLICANT: Hartl, F. Ulrich
;; APPLICANT: Hoe, Mee H.
;; APPLICANT: Houghton, Alan
;; APPLICANT: Takeuchi, Yoshizumi
;; APPLICANT: Mayhew, Mark
;; TITLE OF INVENTION: Heat Shock Protein-Based Vaccines and Immunotherapies
;; FILE REFERENCE: 11746/461072
;; CURRENT APPLICATION NUMBER: US/10/367,668
;; PRIOR FILING DATE: 2003-02-14
;; PRIOR APPLICATION NUMBER: US 09/794,517
;; PRIOR FILING DATE: 2001-02-27
;; PRIOR APPLICATION NUMBER: US 09/011,645
;; PRIOR FILING DATE: 1998-02-13
;; PRIOR APPLICATION NUMBER: PCT/US96/13363
;; PRIOR FILING DATE: 1996-08-16
;; PRIOR APPLICATION NUMBER: US 60/002,490
;; PRIOR FILING DATE: 1995-08-18
;; PRIOR APPLICATION NUMBER: US 60/002,479
;; PRIOR FILING DATE: 1995-08-18
;; NUMBER OF SEQ ID NOS: 349
;; SOFTWARE: WordPerfect 8.0 for Windows
;; SEQ ID NO 89
;; LENGTH: 9
;; TYPE: PRT
;; ORGANISM: Artificial Sequence
;; FEATURE:
;; OTHER INFORMATION: synthetic peptide
US-10-367-668-89

Query Match 100.0%; Score 44; DB 4; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.7e+06;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TL0DIVLHL 9
Db 1 TL0DIVLHL 9

RESULT 10
US-10-367-674-89
;; Sequence 89, Application US/10367674
;; Publication No. US20040127684A1
;; GENERAL INFORMATION:
;; APPLICANT: Rothman, James E.
;; APPLICANT: Hartl, F. Ulrich
;; APPLICANT: Hoe, Mee H.
;; APPLICANT: Houghton, Alan
;; APPLICANT: Takeuchi, Yoshizumi
;; APPLICANT: Mayhew, Mark
;; TITLE OF INVENTION: Heat Shock Protein-Based Vaccines and Immunotherapies
;; FILE REFERENCE: 11746/4610211
;; CURRENT APPLICATION NUMBER: US/10/367,674
;; PRIOR FILING DATE: 2003-02-14
;; PRIOR APPLICATION NUMBER: US 10/170,738
;; PRIOR FILING DATE: 2002-06-13
;; PRIOR APPLICATION NUMBER: US 09/552,868
;; PRIOR FILING DATE: 2000-04-20
;; PRIOR APPLICATION NUMBER: US 09/011,645
;; PRIOR FILING DATE: 1998-02-13
;; PRIOR APPLICATION NUMBER: PCT/US96/13363
;; PRIOR FILING DATE: 1996-08-16
;; PRIOR APPLICATION NUMBER: US 60/002,490
;; PRIOR FILING DATE: 1995-08-18
;; PRIOR APPLICATION NUMBER: US 60/002,479
;; PRIOR FILING DATE: 1995-08-18
;; NUMBER OF SEQ ID NOS: 349
;; SOFTWARE: WordPerfect 8.0 for Windows
;; SEQ ID NO 89
;; LENGTH: 9

TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: synthetic peptide
US-10-367-674-89

Query Match 100.0%; Score 44; DB 4; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.7e+06;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TLQDIVLHL 9
Db 1 TLQDIVLHL 9

RESULT 11
US-10-815-514-10
Sequence 10, Application US/10815514
Publication No. US20040204361A1
GENERAL INFORMATION:
APPLICANT: Rothman, James
APPLICANT: Mayhew, Mark
TITLE OF INVENTION: KDEL RECEPTOR INHIBITORS
FILE REFERENCE: 31488
CURRENT APPLICATION NUMBER: US/10/815,514
CURRENT FILING DATE: 2004-03-31
PRIOR APPLICATION NUMBER: US/09/696,872
PRIOR FILING DATE: 2000-10-26
NUMBER OF SEQ ID NOS: 42
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 10
LENGTH: 9
TYPE: PRT
ORGANISM: papillomavirus
US-10-815-514-10

Query Match 100.0%; Score 44; DB 4; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.7e+06;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TLQDIVLHL 9
Db 1 TLQDIVLHL 9

RESULT 12
US-10-930-930-10
Sequence 10, Application US/10877930
Publication No. US20040235129A1
GENERAL INFORMATION:
APPLICANT: Rothman, James
APPLICANT: Mayhew, Mark
TITLE OF INVENTION: KDEL RECEPTOR INHIBITORS
FILE REFERENCE: 31488
CURRENT APPLICATION NUMBER: US/10/877,930
CURRENT FILING DATE: 2004-06-25
PRIOR APPLICATION NUMBER: US/09/696,070
PRIOR FILING DATE: 2000-10-25
NUMBER OF SEQ ID NOS: 42
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 10
LENGTH: 9
TYPE: PRT
ORGANISM: papillomavirus
US-10-877-930-10

Query Match 100.0%; Score 44; DB 5; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.7e+06;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TLQDIVLHL 9

Db 1 TLQDIVLHL 9

RESULT 13
US-10-873-594-10
Sequence 10, Application US/10873594
Publication No. US20050095667A1
GENERAL INFORMATION:
APPLICANT: Rothman, James
APPLICANT: Mayhew, Mark
TITLE OF INVENTION: KDEL RECEPTOR INHIBITORS
FILE REFERENCE: A31488-I-I 065360,0152
CURRENT APPLICATION NUMBER: US/10/873,594
CURRENT FILING DATE: 2004-06-21
PRIOR APPLICATION NUMBER: US/09/800,358
PRIOR FILING DATE: 2001-03-05
PRIOR APPLICATION NUMBER: 09/696,070
PRIOR FILING DATE: 2000-10-25
PRIOR APPLICATION NUMBER: 09/124,671
PRIOR FILING DATE: 1998-07-29
NUMBER OF SEQ ID NOS: 42
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 10
LENGTH: 9
TYPE: PRT
ORGANISM: Human papilloma virus
US-10-873-594-10

Query Match 100.0%; Score 44; DB 5; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.7e+06;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TLQDIVLHL 9
Db 1 TLQDIVLHL 9

RESULT 14
US-10-751-845-144
Sequence 144, Application US/10751845
Publication No. US20050100926A1
GENERAL INFORMATION:
APPLICANT: Hedley, Mary Iynne
APPLICANT: Urban, Robert G.
TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES
FILE REFERENCE: 08191-013001
CURRENT APPLICATION NUMBER: US/10/751,845
CURRENT FILING DATE: 2004-01-05
PRIOR APPLICATION NUMBER: US/09/664,225
PRIOR FILING DATE: 2000-08-18
PRIOR APPLICATION NUMBER: US 60/169,846
PRIOR FILING DATE: 1999-12-09
PRIOR APPLICATION NUMBER: US 60/154,665
PRIOR FILING DATE: 1999-09-16
NUMBER OF SEQ ID NOS: 163
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 144
LENGTH: 9
TYPE: PRT
ORGANISM: Human Papilloma virus
US-10-751-845-144

Query Match 100.0%; Score 44; DB 5; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.7e+06;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TLQDIVLHL 9
Db 1 TLQDIVLHL 9

RESULT 15

US-10-776-521B-68
; Sequence 68, Application US/10776521B
; Publication No. US20050202033A1
; GENERAL INFORMATION:
; APPLICANT: Fletcher, Jessica
; APPLICANT: Prince-Cohane, Kenya
; APPLICANT: Mehta, Sunil
; APPLICANT: Slusarewicz, Paul
; APPLICANT: Andjelic, Sofija
; APPLICANT: Barber, Brian
; TITLE OF INVENTION: IMPROVED HEAT SHOCK PROTEIN-BASED VACCINES AND
; FILE REFERENCE: 8449-405-999
; CURRENT APPLICATION NUMBER: US/10/776,521B
; CURRENT FILING DATE: 2004-02-12
; PRIOR APPLICATION NUMBER: 60/503,417
; PRIOR FILING DATE: 2003-09-16
; PRIOR APPLICATION NUMBER: 60/463,746
; PRIOR FILING DATE: 2003-04-18
; PRIOR APPLICATION NUMBER: 60/462,469
; PRIOR FILING DATE: 2003-04-11
; PRIOR APPLICATION NUMBER: 60/447,142
; PRIOR FILING DATE: 2003-02-13
; NUMBER OF SEQ ID NOS: 419
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 68
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Human Papilloma Virus
US-10-776-521B-68

Query Match 100.0%; Score 44; DB 5; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.7e+06;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1 TLQDIVLHL 9
Db 1 TLQDIVLHL 9

RESULT 16

US-10-820-067A-68
; Sequence 68, Application US/10820067A
; Publication No. US20050214312A1
; GENERAL INFORMATION:
; APPLICANT: Fletcher, J.
; APPLICANT: Prince-Cohane, K.
; APPLICANT: Mehta, S.
; APPLICANT: Slusarewicz, P.
; APPLICANT: Andjelic, S.
; APPLICANT: Barber, B.
; TITLE OF INVENTION: IMPROVED HEAT SHOCK PROTEIN-BASED
; FILE REFERENCE: 8449-406-999
; CURRENT APPLICATION NUMBER: US/10/820,067A
; CURRENT FILING DATE: 2004-04-08
; PRIOR APPLICATION NUMBER: 60/462,469
; PRIOR FILING DATE: 2003-04-11
; PRIOR APPLICATION NUMBER: 60/463,746
; PRIOR FILING DATE: 2003-04-18
; PRIOR APPLICATION NUMBER: 60/503,417
; PRIOR FILING DATE: 2003-09-16
; NUMBER OF SEQ ID NOS: 926
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 68
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Human Papilloma Virus
US-10-820-067A-68

Query Match 100.0%; Score 44; DB 5; Length 9;

Best Local Similarity 100.0%; Pred. No. 1.7e+06;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TLQDIVLHL 9
Db 1 TLQDIVLHL 9

RESULT 17

US-10-751-845-145
; Sequence 145, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
; APPLICANT: Hedley, Mary Lynne
; APPLICANT: Urban, Robert G.
; APPLICANT: Chicz, Roman M.
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES
; FILE REFERENCE: 08191-013001
; CURRENT APPLICATION NUMBER: US/10/751,845
; CURRENT FILING DATE: 2004-01-05
; PRIOR APPLICATION NUMBER: US/09/664,225
; PRIOR FILING DATE: 2000-08-18
; PRIOR APPLICATION NUMBER: US 60/169,846
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: US 60/154,665
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 163
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 145
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Human Papilloma Virus
US-10-751-845-145

Query Match 100.0%; Score 44; DB 5; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.057;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1 TLQDIVLHL 9
Db 2 TLQDIVLHL 10

RESULT 18

US-10-751-845-154
; Sequence 154, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
; APPLICANT: Hedley, Mary Lynne
; APPLICANT: Urban, Robert G.
; APPLICANT: Chicz, Roman M.
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES
; FILE REFERENCE: 08191-013001
; CURRENT APPLICATION NUMBER: US/10/751,845
; CURRENT FILING DATE: 2004-01-05
; PRIOR APPLICATION NUMBER: US/09/664,225
; PRIOR FILING DATE: 2000-08-18
; PRIOR APPLICATION NUMBER: US 60/169,846
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: US 60/154,665
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 163
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 154
; LENGTH: 19
; TYPE: PRT
; ORGANISM: Human Papilloma Virus
US-10-751-845-154

Query Match 100.0%; Score 44; DB 5; Length 19;
Best Local Similarity 100.0%; Pred. No. 0.11;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TLQDIVLHL 9
|||
Db 3 TLQDIVLHL 11

RESULT 19

US-09-794-517-14
Sequence 14, Application US/09794517
Publication No. US20030021794A1

GENERAL INFORMATION:

APPLICANT: Sloan-Kettering Institute for Cancer Research

ROTHMAN, James E.

HARTL, P. Ulrich

HOE, Mee H.

HOUGHTON, Alan

TAKECHI, Yoshizumi

MAYHEW, Mark

TITLE OF INVENTION: Heat Shock Protein-Based Vaccines and Immunotherapies

NUMBER OF SEQUENCES: 30

CORRESPONDENCE ADDRESS:

ADDRESSEE: Kenyon & Kenyon

STREET: One Broadway

CITY: New York

STATE: NY

COUNTRY: US

ZIP: 10004

COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette - 3.5 inch, 1.44 Mb storage

COMPUTER: IBM compatible

OPERATING SYSTEM: MS DOS

SOFTWARE: Word Perfect

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/794,517

FILING DATE: 27-Feb-2001

CLASSIFICATION: <Unknown>

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 09/011,645

FILING DATE: <Unknown>

APPLICATION NUMBER: 60/002,490

FILING DATE: August 18, 1995

APPLICATION NUMBER: PCT/US96/13363

FILING DATE: August 16, 1996

ATTORNEY/AGENT INFORMATION:

NAME: Delucia, Richard L.

REGISTRATION NUMBER: 28,839

REFERENCE/DOCKET NUMBER: 11746/1

TELECOMMUNICATION INFORMATION:

TELEPHONE: (212) 425-7200

TELEFAX: (212) 425-5288

TELEX: <Unknown>

INFORMATION FOR SEQ ID NO: 14:

SEQUENCE CHARACTERISTICS:

LENGTH: 20

TYPE: amino acid

STRANDEDNESS: <Unknown>

TOPOLOGY: linear

MOLECULE TYPE: peptide

HYPOTHETICAL: yes

FRAGMENT TYPE: internal

ORIGINAL SOURCE:

ORGANISM: <Unknown>

FEATURE:
OTHER INFORMATION: hybrid peptide for human papilloma

virus vaccine

SEQUENCE DESCRIPTION: SEQ ID NO: 14:

US-09-794-517-14

Query Match 100.0%; Score 44; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.12; 0; Indels 0; Gaps 0;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TLQDIVLHL 9
|||

Db 1 TLQDIVLHL 9
|||

RESULT 20

US-09-794-517-15
Sequence 15, Application US/09794517
Publication No. US20030021794A1

GENERAL INFORMATION:

APPLICANT: Sloan-Kettering Institute for Cancer Research

ROTHMAN, James E.

HARTL, P. Ulrich

HOE, Mee H.

HOUGHTON, Alan

TAKECHI, Yoshizumi

MAYHEW, Mark

TITLE OF INVENTION: Heat Shock Protein-Based Vaccines and Immunotherapies

NUMBER OF SEQUENCES: 30

CORRESPONDENCE ADDRESS:

ADDRESSEE: Kenyon & Kenyon

STREET: One Broadway

CITY: New York

STATE: NY

COUNTRY: US

ZIP: 10004

COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette - 3.5 inch, 1.44 Mb storage

COMPUTER: IBM compatible

OPERATING SYSTEM: MS DOS

SOFTWARE: Word Perfect

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/794,517

FILING DATE: 27-Feb-2001

CLASSIFICATION: <Unknown>

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 09/011,645

FILING DATE: <Unknown>

APPLICATION NUMBER: 60/002,490

FILING DATE: August 18, 1995

APPLICATION NUMBER: PCT/US96/13363

FILING DATE: August 16, 1996

ATTORNEY/AGENT INFORMATION:

NAME: Delucia, Richard L.

REGISTRATION NUMBER: 28,839

REFERENCE/DOCKET NUMBER: 11746/1

TELECOMMUNICATION INFORMATION:

TELEPHONE: (212) 425-7200

TELEFAX: (212) 425-5288

TELEX: <Unknown>

INFORMATION FOR SEQ ID NO: 15:

SEQUENCE CHARACTERISTICS:

LENGTH: 20

TYPE: amino acid

STRANDEDNESS: <Unknown>

TOPOLOGY: linear

MOLECULE TYPE: peptide

HYPOTHETICAL: yes

FRAGMENT TYPE: internal

ORIGINAL SOURCE:

ORGANISM: <Unknown>

FEATURE:
OTHER INFORMATION: hybrid peptide for human papilloma

virus vaccine

US-09-794-517-15

Query Match 100.0%; Score 44; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.12; 0; Indels 0; Gaps 0;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TLQDIVLHL 9
|||

Db 12 TLQDIVLHL 20

RESULT 21
US-09-794-529-14
Sequence 14, Application US/09794529
Publication No. US20030082197A1
GENERAL INFORMATION:
APPLICANT: Sloan-Kettering Institute for Cancer Research
ROTHMAN, James E.
HARTL, F. Ulrich
HOE, Mee H.
HOUGHTON, Alan
TAKECHI, Yoshizumi
MAYHEW, Mark
TITLE OF INVENTION: Heat Shock Protein-Based Vaccines and Immunotherapies
NUMBER OF SEQUENCES: 30
CORRESPONDENCE ADDRESS:
ADDRESSEE: Kenyon & Kenyon
STREET: One Broadway
CITY: New York
STATE: NY
COUNTRY: US
ZIP: 10004
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette - 3.5 inch, 1.44 Mb storage
COMPUTER: IBM compatible
OPERATING SYSTEM: MS DOS
SOFTWARE: Word Perfect
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/794,529
FILING DATE: 27-Feb-2001
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/09/011,645
FILING DATE: 13-Feb-1998
APPLICATION NUMBER: 60/002,479
FILING DATE: August 18, 1995
APPLICATION NUMBER: 60/002,490
FILING DATE: August 18, 1995
APPLICATION NUMBER: PCT/US96/13363
FILING DATE: August 16, 1996
ATTORNEY/AGENT INFORMATION:
NAME: Delucia, Richard L.
REGISTRATION NUMBER: 28,839
REFERENCE/DOCKET NUMBER: 11746/1
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 425-7200
TELEFAX: (212) 425-5288
TELEX: <Unknown>
INFORMATION FOR SEQ ID NO: 14:
SEQUENCE CHARACTERISTICS:
LENGTH: 20
TYPE: amino acid
STRANDEDNESS: <Unknown>
TOPOLOGY: linear
MOLECULE TYPE: peptide
HYPOTHETICAL: yes
FRAGMENT TYPE: internal
ORIGINAL SOURCE:
ORGANISM: <Unknown>
FEATURE:
OTHER INFORMATION: hybrid peptide for human papilloma virus vaccine
SEQUENCE DESCRIPTION: SEQ ID NO: 14:
US-09-794-529-14

Query Match 100.0%; Score 44; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.12; Mismatches 0; Indels 0; Gaps 0;
Matches 9; Conservative 0; TLQDIVLHL 9

Db 1 TLQDIVLHL 9

RESULT 22
US-09-794-529-15
Sequence 15, Application US/09794529
Publication No. US20030082197A1
GENERAL INFORMATION:
APPLICANT: Sloan-Kettering Institute for Cancer Research
ROTHMAN, James E.
HARTL, F. Ulrich
HOE, Mee H.
HOUGHTON, Alan
TAKECHI, Yoshizumi
MAYHEW, Mark
TITLE OF INVENTION: Heat Shock Protein-Based Vaccines and Immunotherapies
NUMBER OF SEQUENCES: 30
CORRESPONDENCE ADDRESS:
ADDRESSEE: Kenyon & Kenyon
STREET: One Broadway
CITY: New York
STATE: NY
COUNTRY: US
ZIP: 10004
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette - 3.5 inch, 1.44 Mb storage
COMPUTER: IBM compatible
OPERATING SYSTEM: MS DOS
SOFTWARE: Word Perfect
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/794,529
FILING DATE: 27-Feb-2001
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/09/011,645
FILING DATE: 13-Feb-1998
APPLICATION NUMBER: 60/002,479
FILING DATE: August 18, 1995
APPLICATION NUMBER: 60/002,490
FILING DATE: August 18, 1995
APPLICATION NUMBER: PCT/US96/13363
FILING DATE: August 16, 1996
ATTORNEY/AGENT INFORMATION:
NAME: Delucia, Richard L.
REGISTRATION NUMBER: 28,839
REFERENCE/DOCKET NUMBER: 11746/1
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 425-7200
TELEFAX: (212) 425-5288
TELEX: <Unknown>
INFORMATION FOR SEQ ID NO: 15:
SEQUENCE CHARACTERISTICS:
LENGTH: 20
TYPE: amino acid
STRANDEDNESS: <Unknown>
TOPOLOGY: linear
MOLECULE TYPE: peptide
HYPOTHETICAL: yes
FRAGMENT TYPE: internal
ORIGINAL SOURCE:
ORGANISM: <Unknown>
FEATURE:
OTHER INFORMATION: hybrid peptide for human papilloma virus vaccine
SEQUENCE DESCRIPTION: SEQ ID NO: 15:
US-09-794-529-15

Query Match 100.0%; Score 44; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.12; Mismatches 0; Indels 0; Gaps 0;
Matches 9; Conservative 0; TLQDIVLHL 9

Qy 1 TL0DIVLH 9
Db 12 TL0DIVLH 20

RESULT 23

US-09-794-832-14
Sequence 14, Application US/09794832
Publication No. US20030082198A1
GENERAL INFORMATION:

APPLICANT: Sloan-Kettering Institute for Cancer Research

ROTHMAN, James E.

HARTL, F. Ulrich

HOE, Mee H.

HOUGHTON, Alan

TAKECHI, Yoshizumi

MAYHEW, Mark

TITLE OF INVENTION: Heat Shock Protein-Based Vaccines and Immunotherapies

NUMBER OF SEQUENCES: 30

CORRESPONDENCE ADDRESS:

ADDRESS: Kenyon & Kenyon

STREET: One Broadway

CITY: New York

STATE: NY

COUNTRY: US

ZIP: 10004

COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette - 3.5 inch, 1.44 Mb storage

COMPUTER: IBM compatible

OPERATING SYSTEM: MS DOS

SOFTWARE: Word Perfect

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/794,832

FILING DATE: 27-Feb-2001

CLASSIFICATION: <Unknown>

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US/09/011,645

FILING DATE: 13-Feb-1998

APPLICATION NUMBER: 60/002,479

FILING DATE: August 18, 1995

APPLICATION NUMBER: 60/002,490

FILING DATE: August 18, 1995

APPLICATION NUMBER: PCT/US96/13363

FILING DATE: August 16, 1996

ATTORNEY/AGENT INFORMATION:

NAME: Delucia, Richard L.

REGISTRATION NUMBER: 28,839

REFERENCE/DOCKET NUMBER: 11746/1

TELECOMMUNICATION INFORMATION:

TELEPHONE: (212) 425-7200

TELEFAX: (212) 425-5288

TELEX: <Unknown>

INFORMATION FOR SEQ ID NO: 14:

SEQUENCE CHARACTERISTICS:

LENGTH: 20

TYPE: amino acid

STRANDEDNESS: <Unknown>

TOPOLOGY: linear

MOLECULE TYPE: peptide

HYPOTHETICAL: yes

FRAGMENT TYPE: internal

ORIGINAL SOURCE:

ORGANISM: <Unknown>

FEATURE:

OTHER INFORMATION: hybrid peptide for human papilloma

US-09-794-832-14

Query Match 100.0%; Score 44; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.12;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TL0DIVLH 9
Db 1 TL0DIVLH 9

RESULT 24

US-09-794-832-15
Sequence 15, Application US/09794832
Publication No. US20030082198A1
GENERAL INFORMATION:

APPLICANT: Sloan-Kettering Institute for Cancer Research

ROTHMAN, James E.

HARTL, F. Ulrich

HOE, Mee H.

HOUGHTON, Alan

TAKECHI, Yoshizumi

MAYHEW, Mark

TITLE OF INVENTION: Heat Shock Protein-Based Vaccines and Immunotherapies

NUMBER OF SEQUENCES: 30

CORRESPONDENCE ADDRESS:

ADDRESS: Kenyon & Kenyon

STREET: One Broadway

CITY: New York

STATE: NY

COUNTRY: US

ZIP: 10004

COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette - 3.5 inch, 1.44 Mb storage

COMPUTER: IBM compatible

OPERATING SYSTEM: MS DOS

SOFTWARE: Word Perfect

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/794,832

FILING DATE: 27-Feb-2001

CLASSIFICATION: <Unknown>

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US/09/011,645

FILING DATE: 13-Feb-1998

APPLICATION NUMBER: 60/002,479

FILING DATE: August 18, 1995

APPLICATION NUMBER: 60/002,490

FILING DATE: August 18, 1995

APPLICATION NUMBER: PCT/US96/13363

FILING DATE: August 16, 1996

ATTORNEY/AGENT INFORMATION:

NAME: Delucia, Richard L.

REGISTRATION NUMBER: 28,839

REFERENCE/DOCKET NUMBER: 11746/1

TELECOMMUNICATION INFORMATION:

TELEPHONE: (212) 425-7200

TELEFAX: (212) 425-5288

TELEX: <Unknown>

INFORMATION FOR SEQ ID NO: 15:

SEQUENCE CHARACTERISTICS:

LENGTH: 20

TYPE: amino acid

STRANDEDNESS: <Unknown>

TOPOLOGY: linear

MOLECULE TYPE: peptide

HYPOTHETICAL: yes

FRAGMENT TYPE: internal

ORIGINAL SOURCE:

ORGANISM: <Unknown>

FEATURE:

OTHER INFORMATION: hybrid peptide for human papilloma

US-09-794-832-15

Query Match 100.0%; Score 44; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.12;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TLQDIVLHL 9
Db 12 TLQDIVLHL 20

RESULT 25

US-10-170-713A-14

Sequence 14, Application US/10170713A
Publication No. US20030185842A1

GENERAL INFORMATION:

APPLICANT: Sloan-Kettering Institute for Cancer Research

ROTHMAN, James E.

HARTL, F. Ulrich

HOE, Mee H.

HOUGHTON, Alan

TAKESCHI, Yoshizumi

MAYHEW, Mark

TITLE OF INVENTION: Heat Shock Protein-Based Vaccines and

Immunotherapies

NUMBER OF SEQUENCES: 30

CORRESPONDENCE ADDRESS:

ADDRESSEE: Kenyon & Kenyon

STREET: One Broadway

CITY: New York

STATE: NY

COUNTRY: US

ZIP: 10004

COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette - 3.5 inch, 1.44 Mb storage

COMPUTER: IBM compatible

OPERATING SYSTEM: MS DOS

SOFTWARE: Word Perfect

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/10/170, 713A

FILING DATE: 13-Jun-2002

CLASSIFICATION: 424

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 09/011,645

FILING DATE: February 13, 1998

APPLICATION NUMBER: 60/002,479

FILING DATE: August 18, 1995

APPLICATION NUMBER: 60/002,490

FILING DATE: August 18, 1995

APPLICATION NUMBER: PCT/US96/13363

FILING DATE: August 16, 1996

ATTORNEY/AGENT INFORMATION:

NAME: Casson, Lawrence P.

REGISTRATION NUMBER: 46,606

REFERENCE/DOCKET NUMBER: 11746/461011

TELECOMMUNICATION INFORMATION:

TELEPHONE: (212) 425-7200

TELEFAX: (212) 425-5288

TELEX: <Unknown>

INFORMATION FOR SEQ ID NO: 14:

SEQUENCE CHARACTERISTICS:

LENGTH: 20

TYPE: amino acid

STRANDEDNESS: <Unknown>

TOPOLOGY: linear

MOLECULE TYPE: peptide

HYPOTHETICAL: yes

FRAGMENT TYPE: internal

ORIGINAL SOURCE:

ORGANISM: <Unknown>

FEATURE:

OTHER INFORMATION: hybrid peptide for human papilloma

virus vaccine

SEQUENCE DESCRIPTION: SEQ ID NO: 14:

US-10-170-713A-14

Query Match

100.0%; Score 44; DB 4; Length 20;

Best Local Similarity 100.0%; Pred. No. 0.12;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TLQDIVLHL 9
Db 1 TLQDIVLHL 9

RESULT 26

US-10-170-713A-15

Sequence 15, Application US/10170713A
Publication No. US20030185842A1

GENERAL INFORMATION:

APPLICANT: Sloan-Kettering Institute for Cancer Research

ROTHMAN, James E.

HARTL, F. Ulrich

HOE, Mee H.

HOUGHTON, Alan

TAKESCHI, Yoshizumi

MAYHEW, Mark

TITLE OF INVENTION: Heat Shock Protein-Based Vaccines and

Immunotherapies

NUMBER OF SEQUENCES: 30

CORRESPONDENCE ADDRESS:

ADDRESSEE: Kenyon & Kenyon

STREET: One Broadway

CITY: New York

STATE: NY

COUNTRY: US

ZIP: 10004

COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette - 3.5 inch, 1.44 Mb storage

COMPUTER: IBM compatible

OPERATING SYSTEM: MS DOS

SOFTWARE: Word Perfect

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/10/170, 713A

FILING DATE: 13-Jun-2002

CLASSIFICATION: 424

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 09/011,645

FILING DATE: February 13, 1998

APPLICATION NUMBER: 60/002,479

FILING DATE: August 18, 1995

APPLICATION NUMBER: 60/002,490

FILING DATE: August 18, 1995

APPLICATION NUMBER: PCT/US96/13363

FILING DATE: August 16, 1996

ATTORNEY/AGENT INFORMATION:

NAME: Casson, Lawrence P.

REGISTRATION NUMBER: 46,606

REFERENCE/DOCKET NUMBER: 11746/461011

TELECOMMUNICATION INFORMATION:

TELEPHONE: (212) 425-7200

TELEFAX: (212) 425-5288

TELEX: <Unknown>

INFORMATION FOR SEQ ID NO: 15:

SEQUENCE CHARACTERISTICS:

LENGTH: 20

TYPE: amino acid

STRANDEDNESS: <Unknown>

TOPOLOGY: linear

MOLECULE TYPE: peptide

HYPOTHETICAL: yes

FRAGMENT TYPE: internal

ORIGINAL SOURCE:

ORGANISM: <Unknown>

FEATURE:

OTHER INFORMATION: hybrid peptide for human papilloma

virus vaccine

SEQUENCE DESCRIPTION: SEQ ID NO: 15:

US-10-170-713A-15

Query Match

100.0%; Score 44; DB 4; Length 20;

Query Match 100.0%; Score 44; DB 4; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.12;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TLQDIVLHL 9
DB 12 TLQDIVLHL 20

RESULT 27

US-10-171-734-14
; Sequence 14, Application US/10171734
; Publication No. US20030185843A1
; GENERAL INFORMATION:

APPLICANT: Sloan-Kettering Institute for Cancer Research

ROTHMAN, James E.

HARTL, F. Ulrich

HOE, Wee H.

HOUGHTON, Alan

TAKECHI, Yoshizumi

MAYHEW, Mark

TITLE OF INVENTION: Heat Shock Protein-Based Vaccines and Immunotherapies

NUMBER OF SEQUENCES: 30

CORRESPONDENCE ADDRESS: Kenyon & Kenyon

STREET: One Broadway

CITY: New York

STATE: NY

COUNTRY: US

ZIP: 10004

COMPUTER READABLE FORM: MEDIUM TYPE: Diskette - 3.5 inch, 1.44 Mb storage

COMPUTER: IBM compatible

OPERATING SYSTEM: MS DOS

SOFTWARE: Word Perfect

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/10/171,734

FILING DATE: 14-Jan-2003

CLASSIFICATION: 424

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 60/002,479

FILING DATE: August 18, 1995

APPLICATION NUMBER: 60/002,490

FILING DATE: August 18, 1995

APPLICATION NUMBER: PCT/US96/13363

FILING DATE: August 16, 1996

APPLICATION NUMBER: 09/011,645

FILING DATE: February 13, 1998

APPLICATION NUMBER: 09/636,295

FILING DATE: August 10, 2000

ATTORNEY/AGENT INFORMATION:

NAME: Casson, Lawrence P.

REGISTRATION NUMBER: 46,606

REFERENCE/DOCKET NUMBER: 11746/461031

TELECOMMUNICATION INFORMATION:

TELEPHONE: (212) 425-7200

TELEFAX: (212) 425-5288

TELEX: <Unknown>

INFORMATION FOR SEQ ID NO: 14:

SEQUENCE CHARACTERISTICS:

LENGTH: 20

TYPE: amino acid

STRANDEDNESS: <Unknown>

TOPOLOGY: linear

MOLECULE TYPE: peptide

HYPOTHETICAL: yes

FRAGMENT TYPE: internal

ORIGINAL SOURCE:

ORGANISM: <Unknown>

FEATURE:

OTHER INFORMATION: hybrid peptide for human papilloma

virus vaccine

SEQUENCE DESCRIPTION: SEQ ID NO: 14:
US-10-171-734-14

Query Match 100.0%; Score 44; DB 4; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.12;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TLQDIVLHL 9
DB 1 TLQDIVLHL 9

RESULT 28

US-10-171-734-15
; Sequence 15, Application US/10171734
; Publication No. US20030185843A1
; GENERAL INFORMATION:

APPLICANT: Sloan-Kettering Institute for Cancer Research

ROTHMAN, James E.

HARTL, F. Ulrich

HOE, Wee H.

HOUGHTON, Alan

TAKECHI, Yoshizumi

MAYHEW, Mark

TITLE OF INVENTION: Heat Shock Protein-Based Vaccines and Immunotherapies

NUMBER OF SEQUENCES: 30

CORRESPONDENCE ADDRESS: Kenyon & Kenyon

STREET: One Broadway

CITY: New York

STATE: NY

COUNTRY: US

ZIP: 10004

COMPUTER READABLE FORM: MEDIUM TYPE: Diskette - 3.5 inch, 1.44 Mb storage

COMPUTER: IBM compatible

OPERATING SYSTEM: MS DOS

SOFTWARE: Word Perfect

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/10/171,734

FILING DATE: 14-Jan-2003

CLASSIFICATION: 424

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 60/002,479

FILING DATE: August 18, 1995

APPLICATION NUMBER: 60/002,490

FILING DATE: August 18, 1995

APPLICATION NUMBER: PCT/US96/13363

FILING DATE: August 16, 1996

APPLICATION NUMBER: 09/011,645

FILING DATE: February 13, 1998

APPLICATION NUMBER: 09/636,295

FILING DATE: August 10, 2000

ATTORNEY/AGENT INFORMATION:

NAME: Casson, Lawrence P.

REGISTRATION NUMBER: 46,606

REFERENCE/DOCKET NUMBER: 11746/461031

TELECOMMUNICATION INFORMATION:

TELEPHONE: (212) 425-7200

TELEFAX: (212) 425-5288

TELEX: <Unknown>

INFORMATION FOR SEQ ID NO: 15:

SEQUENCE CHARACTERISTICS:

LENGTH: 20

TYPE: amino acid

STRANDEDNESS: <Unknown>

TOPOLOGY: linear

MOLECULE TYPE: peptide

HYPOTHETICAL: yes

FRAGMENT TYPE: internal

ORIGINAL SOURCE:

ORGANISM: <Unknown>

```

;
;   FEATURE:
;   OTHER INFORMATION: hybrid peptide for human papilloma
;   virus vaccine
;   SEQUENCE DESCRIPTION: SEQ ID NO: 15:
;   US-10-171-734-15
;
Query Match          100.0%; Score 44; DB 4; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.12;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 TLQDVLHL 9
        |||||
        1 TLQDVLHL 20

Db
RESULT 29
US-10-367-580-14
; Sequence 14, Application US/10367580
; Publication No. US20040071720A1
; GENERAL INFORMATION:
; APPLICANT: Rothman, James E.
; APPLICANT: Hartl, F. Ulrich
; APPLICANT: Hoe, Mee H.
; APPLICANT: Houghton, Alan
; APPLICANT: Takechi, Yoshizumi
; APPLICANT: Mayhew, Mark
; TITLE OF INVENTION: Heat Shock Protein-Based Vaccines and Immunotherapies
; FILE REFERENCE: 11746/461061
; CURRENT APPLICATION NUMBER: US/10/367,580
; PRIOR FILING DATE: 2003-02-14
; PRIOR APPLICATION NUMBER: US 09/794,832
; PRIOR FILING DATE: 2001-02-27
; PRIOR APPLICATION NUMBER: US 09/011,645
; PRIOR FILING DATE: 1998-02-13
; PRIOR APPLICATION NUMBER: PCT/US96/13363
; PRIOR FILING DATE: 1996-08-16
; PRIOR APPLICATION NUMBER: US 60/002,490
; PRIOR FILING DATE: 1995-08-18
; PRIOR APPLICATION NUMBER: US 60/002,479
; PRIOR FILING DATE: 1995-08-18
; NUMBER OF SEQ ID NOS: 349
; SOFTWARE: WordPerfect 8.0 for Windows
; SEQ ID NO 14
; LENGTH: 20
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: synthetic peptide
; US-10-367-580-14
;
Query Match          100.0%; Score 44; DB 4; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.12;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 TLQDVLHL 9
        |||||
        1 TLQDVLHL 9

Db
RESULT 30
US-10-367-580-15
; Sequence 15, Application US/10367580
; Publication No. US20040071720A1
; GENERAL INFORMATION:
; APPLICANT: Rothman, James E.
; APPLICANT: Hartl, F. Ulrich
; APPLICANT: Hoe, Mee H.
; APPLICANT: Houghton, Alan
; APPLICANT: Takechi, Yoshizumi
; APPLICANT: Mayhew, Mark
; TITLE OF INVENTION: Heat Shock Protein-Based Vaccines and Immunotherapies
; FILE REFERENCE: 11746/461061
; CURRENT APPLICATION NUMBER: US/10/367,580
```

```

;
;   CURRENT FILING DATE: 2003-02-14
;   PRIOR APPLICATION NUMBER: US 09/794,832
;   PRIOR FILING DATE: 2001-02-27
;   PRIOR APPLICATION NUMBER: US 09/011,645
;   PRIOR FILING DATE: 1998-02-13
;   PRIOR APPLICATION NUMBER: PCT/US96/13363
;   PRIOR FILING DATE: 1996-08-16
;   PRIOR APPLICATION NUMBER: US 60/002,490
;   PRIOR FILING DATE: 1995-08-18
;   PRIOR APPLICATION NUMBER: US 60/002,479
;   PRIOR FILING DATE: 1995-08-18
;   NUMBER OF SEQ ID NOS: 349
;   SOFTWARE: WordPerfect 8.0 for Windows
;   SEQ ID NO 15
;   LENGTH: 20
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: synthetic peptide
;   US-10-367-580-15
;
Query Match          100.0%; Score 44; DB 4; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.12;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 TLQDVLHL 9
        |||||
        1 TLQDVLHL 20

Db
RESULT 31
US-10-367-593-14
; Sequence 14, Application US/10367593
; Publication No. US20040071721A1
; GENERAL INFORMATION:
; APPLICANT: Rothman, James E.
; APPLICANT: Hartl, F. Ulrich
; APPLICANT: Hoe, Mee H.
; APPLICANT: Houghton, Alan
; APPLICANT: Takechi, Yoshizumi
; APPLICANT: Mayhew, Mark
; TITLE OF INVENTION: Heat Shock Protein-Based Vaccines and Immunotherapies
; FILE REFERENCE: 11746/461012
; CURRENT APPLICATION NUMBER: US/10/367,593
; CURRENT FILING DATE: 2003-02-14
; PRIOR APPLICATION NUMBER: US 09/011,645
; PRIOR FILING DATE: 1998-02-13
; PRIOR APPLICATION NUMBER: PCT/US96/13363
; PRIOR FILING DATE: 1996-08-16
; PRIOR APPLICATION NUMBER: US 60/002,490
; PRIOR FILING DATE: 1995-08-18
; PRIOR APPLICATION NUMBER: US 60/002,479
; PRIOR FILING DATE: 1995-08-18
; NUMBER OF SEQ ID NOS: 349
; SOFTWARE: WordPerfect 8.0 for Windows
; SEQ ID NO 14
; LENGTH: 20
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: synthetic peptide
; US-10-367-593-14
;
Query Match          100.0%; Score 44; DB 4; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.12;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 TLQDVLHL 9
        |||||
        1 TLQDVLHL 9

Db
RESULT 32
```

```
US-10-367-593-15
; Sequence 15, Application US/10367593
; Publication No. US20040071722A1
; GENERAL INFORMATION:
; APPLICANT: Rothman, James E.
; APPLICANT: Hartl, F. Ulrich
; APPLICANT: Hoe, Mee H.
; APPLICANT: Houghton, Alan
; APPLICANT: Takeuchi, Yoshizumi
; APPLICANT: Mayhew, Mark
; TITLE OF INVENTION: Heat Shock Protein-Based Vaccines and Immunotherapies
; FILE REFERENCE: 11746/461012
; CURRENT APPLICATION NUMBER: US/10/367,593
; PRIOR FILING DATE: 2003-02-14
; PRIOR APPLICATION NUMBER: US 09/011,645
; PRIOR FILING DATE: 1998-02-13
; PRIOR APPLICATION NUMBER: PCT/US96/13363
; PRIOR FILING DATE: 1996-08-16
; PRIOR APPLICATION NUMBER: US 60/002,490
; PRIOR FILING DATE: 1995-08-18
; PRIOR APPLICATION NUMBER: US 60/002,479
; PRIOR FILING DATE: 1995-08-18
; NUMBER OF SEQ ID NOS: 349
; SOFTWARE: WordPerfect 8.0 for Windows
; SEQ ID NO 15
; LENGTH: 20
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: synthetic peptide
US-10-367-593-15

Query Match          100.0%; Score 44; DB 4; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.12;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 TLQDIVLHL 9
        |||||
Db      12 TLQDIVLHL 20

RESULT 33
US-10-367-594-14
; Sequence 14, Application US/10367594
; Publication No. US20040071722A1
; GENERAL INFORMATION:
; APPLICANT: Rothman, James E.
; APPLICANT: Hartl, F. Ulrich
; APPLICANT: Hoe, Mee H.
; APPLICANT: Houghton, Alan
; APPLICANT: Takeuchi, Yoshizumi
; APPLICANT: Mayhew, Mark
; TITLE OF INVENTION: Heat Shock Protein-Based Vaccines and Immunotherapies
; FILE REFERENCE: 11746/461041
; CURRENT APPLICATION NUMBER: US/10/367,594
; PRIOR FILING DATE: 2003-02-14
; PRIOR APPLICATION NUMBER: US 09/680,806
; PRIOR FILING DATE: 2000-10-05
; PRIOR APPLICATION NUMBER: US 09/011,645
; PRIOR FILING DATE: 1998-02-13
; PRIOR APPLICATION NUMBER: PCT/US96/13363
; PRIOR FILING DATE: 1996-08-16
; PRIOR APPLICATION NUMBER: US 60/002,490
; PRIOR FILING DATE: 1995-08-18
; PRIOR APPLICATION NUMBER: US 60/002,479
; PRIOR FILING DATE: 1995-08-18
; NUMBER OF SEQ ID NOS: 349
; SOFTWARE: WordPerfect 8.0 for Windows
; SEQ ID NO 14
; LENGTH: 20
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: synthetic peptide
```

```
; OTHER INFORMATION: synthetic peptide
US-10-367-594-14

Query Match          100.0%; Score 44; DB 4; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.12;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 TLQDIVLHL 9
        |||||
Db      12 TLQDIVLHL 20

RESULT 34
US-10-367-594-15
; Sequence 15, Application US/10367594
; Publication No. US20040071722A1
; GENERAL INFORMATION:
; APPLICANT: Rothman, James E.
; APPLICANT: Hartl, F. Ulrich
; APPLICANT: Hoe, Mee H.
; APPLICANT: Houghton, Alan
; APPLICANT: Takeuchi, Yoshizumi
; APPLICANT: Mayhew, Mark
; TITLE OF INVENTION: Heat Shock Protein-Based Vaccines and Immunotherapies
; FILE REFERENCE: 11746/461041
; CURRENT APPLICATION NUMBER: US/10/367,594
; PRIOR FILING DATE: 2003-02-14
; PRIOR APPLICATION NUMBER: US 09/680,806
; PRIOR FILING DATE: 2000-10-05
; PRIOR APPLICATION NUMBER: US 09/011,645
; PRIOR FILING DATE: 1998-02-13
; PRIOR APPLICATION NUMBER: PCT/US96/13363
; PRIOR FILING DATE: 1996-08-16
; PRIOR APPLICATION NUMBER: US 60/002,490
; PRIOR FILING DATE: 1995-08-18
; PRIOR APPLICATION NUMBER: US 60/002,479
; PRIOR FILING DATE: 1995-08-18
; NUMBER OF SEQ ID NOS: 349
; SOFTWARE: WordPerfect 8.0 for Windows
; SEQ ID NO 15
; LENGTH: 20
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: synthetic peptide
US-10-367-594-15

Query Match          100.0%; Score 44; DB 4; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.12;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 TLQDIVLHL 9
        |||||
Db      12 TLQDIVLHL 20

RESULT 35
US-10-367-654-14
; Sequence 14, Application US/10367654
; Publication No. US20040071723A1
; GENERAL INFORMATION:
; APPLICANT: Rothman, James E.
; APPLICANT: Hartl, F. Ulrich
; APPLICANT: Hoe, Mee H.
; APPLICANT: Houghton, Alan
; APPLICANT: Takeuchi, Yoshizumi
; APPLICANT: Mayhew, Mark
; TITLE OF INVENTION: Heat Shock Protein-Based Vaccines and Immunotherapies
; FILE REFERENCE: 11746/461032
; CURRENT APPLICATION NUMBER: US/10/367,654
; PRIOR FILING DATE: 2003-02-14
; PRIOR APPLICATION NUMBER: US 10/171,734
; PRIOR FILING DATE: 2002-06-13
```

```
; PRIOR APPLICATION NUMBER: US 09/636,295
; PRIOR FILING DATE: 2000-08-10
; PRIOR APPLICATION NUMBER: US 09/011,645
; PRIOR FILING DATE: 1998-02-13
; PRIOR APPLICATION NUMBER: PCT/US96/13363
; PRIOR FILING DATE: 1996-08-16
; PRIOR APPLICATION NUMBER: US 60/002,490
; PRIOR FILING DATE: 1995-08-18
; PRIOR APPLICATION NUMBER: US 60/002,479
; PRIOR FILING DATE: 1995-08-18
; NUMBER OF SEQ ID NOS: 349
; SOFTWARE: WordPerfect 8.0 for Windows
; SEQ ID NO 14
; LENGTH: 20
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: synthetic peptide
US-10-367-654-14
```

```
Query Match          100.0%; Score 44; DB 4; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.12;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy      1 TLQDIVLHL 9
Db      1 TLQDIVLHL 9
```

```
RESULT 36
US-10-367-654-15
; Sequence 15, Application US/10367654
; Publication No. US20040071723A1
; GENERAL INFORMATION:
; APPLICANT: Rothman, James E.
; APPLICANT: Hartl, F. Ulrich
; APPLICANT: Hoe, Mee H.
; APPLICANT: Houghton, Alan
; APPLICANT: Takechi, Yoshizumi
; APPLICANT: Mayhew, Mark
; TITLE OF INVENTION: Heat Shock Protein-Based Vaccines and Immunotherapies
; FILE REFERENCE: 11746/461032
; CURRENT APPLICATION NUMBER: US/10/367,654
; CURRENT FILING DATE: 2003-02-14
; PRIOR APPLICATION NUMBER: US 10/171,734
; PRIOR FILING DATE: 2002-06-13
; PRIOR APPLICATION NUMBER: US 09/636,295
; PRIOR FILING DATE: 2000-08-10
; PRIOR APPLICATION NUMBER: US 09/011,645
; PRIOR FILING DATE: 1998-02-13
; PRIOR APPLICATION NUMBER: PCT/US96/13363
; PRIOR FILING DATE: 1996-08-16
; PRIOR APPLICATION NUMBER: US 60/002,490
; PRIOR FILING DATE: 1995-08-18
; PRIOR APPLICATION NUMBER: US 60/002,479
; PRIOR FILING DATE: 1995-08-18
; NUMBER OF SEQ ID NOS: 349
; SOFTWARE: WordPerfect 8.0 for Windows
; SEQ ID NO 15
; LENGTH: 20
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: synthetic peptide
US-10-367-654-15
```

```
Query Match          100.0%; Score 44; DB 4; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.12;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy      1 TLQDIVLHL 9
Db      12 TLQDIVLHL 20
```

```
RESULT 37
US-10-367-658-14
; Sequence 14, Application US/10367658
; Publication No. US20040071724A1
; GENERAL INFORMATION:
; APPLICANT: Rothman, James E.
; APPLICANT: Hartl, F. Ulrich
; APPLICANT: Hoe, Mee H.
; APPLICANT: Houghton, Alan
; APPLICANT: Takechi, Yoshizumi
; APPLICANT: Mayhew, Mark
; TITLE OF INVENTION: Heat Shock Protein-Based Vaccines and Immunotherapies
; FILE REFERENCE: 11746/461051
; CURRENT APPLICATION NUMBER: US/10/367,658
; CURRENT FILING DATE: 2003-02-14
; PRIOR APPLICATION NUMBER: US 09/794,529
; PRIOR FILING DATE: 2001-02-27
; PRIOR APPLICATION NUMBER: US 09/011,645
; PRIOR FILING DATE: 1998-02-13
; PRIOR APPLICATION NUMBER: PCT/US96/13363
; PRIOR FILING DATE: 1996-08-16
; PRIOR APPLICATION NUMBER: US 60/002,490
; PRIOR FILING DATE: 1995-08-18
; PRIOR APPLICATION NUMBER: US 60/002,479
; PRIOR FILING DATE: 1995-08-18
; NUMBER OF SEQ ID NOS: 349
; SOFTWARE: WordPerfect 8.0 for Windows
; SEQ ID NO 14
; LENGTH: 20
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: synthetic peptide
US-10-367-658-14
```

```
Query Match          100.0%; Score 44; DB 4; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.12;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy      1 TLQDIVLHL 9
Db      1 TLQDIVLHL 9
```

```
RESULT 38
US-10-367-658-15
; Sequence 15, Application US/10367658
; Publication No. US20040071724A1
; GENERAL INFORMATION:
; APPLICANT: Rothman, James E.
; APPLICANT: Hartl, F. Ulrich
; APPLICANT: Hoe, Mee H.
; APPLICANT: Houghton, Alan
; APPLICANT: Takechi, Yoshizumi
; APPLICANT: Mayhew, Mark
; TITLE OF INVENTION: Heat Shock Protein-Based Vaccines and Immunotherapies
; FILE REFERENCE: 11746/461051
; CURRENT APPLICATION NUMBER: US/10/367,658
; CURRENT FILING DATE: 2003-02-14
; PRIOR APPLICATION NUMBER: US 09/794,529
; PRIOR FILING DATE: 2001-02-27
; PRIOR APPLICATION NUMBER: US 09/011,645
; PRIOR FILING DATE: 1998-02-13
; PRIOR APPLICATION NUMBER: PCT/US96/13363
; PRIOR FILING DATE: 1996-08-16
; PRIOR APPLICATION NUMBER: US 60/002,490
; PRIOR FILING DATE: 1995-08-18
; PRIOR APPLICATION NUMBER: US 60/002,479
; PRIOR FILING DATE: 1995-08-18
; NUMBER OF SEQ ID NOS: 349
; SOFTWARE: WordPerfect 8.0 for Windows
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; SEQ ID NO 15
; LENGTH: 20
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: synthetic peptide
US-10-367-658-15

Query Match          100.0%; Score 44; DB 4; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.12;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 TLQDIVLHL 9
        |||||
        12 TLQDIVLHL 20

Db

RESULT 39
US-10-367-668-14
; Sequence 14, Application US/10367668
; Publication No. US20040071725A1
; GENERAL INFORMATION:
; APPLICANT: Rothman, James E.
; APPLICANT: Hartl, F. Ulrich
; APPLICANT: Hoe, Mee H.
; APPLICANT: Houghton, Alan
; APPLICANT: Takeuchi, Yoshizumi
; APPLICANT: Mayhew, Mark
; TITLE OF INVENTION: Heat Shock Protein-Based Vaccines and Immunotherapies
; FILE REFERENCE: 11746/461072
; CURRENT APPLICATION NUMBER: US/10/367,668
; PRIOR FILING DATE: 2003-02-14
; PRIOR APPLICATION NUMBER: US 09/794,517
; PRIOR FILING DATE: 1998-02-13
; PRIOR APPLICATION NUMBER: PCT/US96/13363
; PRIOR FILING DATE: 1996-08-16
; PRIOR APPLICATION NUMBER: US 60/002,490
; PRIOR FILING DATE: 1995-08-18
; PRIOR APPLICATION NUMBER: US 60/002,479
; NUMBER OF SEQ ID NOS: 349
; SOFTWARE: WordPerfect 8.0 for Windows
; SEQ ID NO 14
; LENGTH: 20
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: synthetic peptide
US-10-367-668-14

Query Match          100.0%; Score 44; DB 4; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.12;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 TLQDIVLHL 9
        |||||
        1 TLQDIVLHL 9

Db

RESULT 40
US-10-367-668-15
; Sequence 15, Application US/10367668
; Publication No. US20040071725A1
; GENERAL INFORMATION:
; APPLICANT: Rothman, James E.
; APPLICANT: Hartl, F. Ulrich
; APPLICANT: Hoe, Mee H.
; APPLICANT: Houghton, Alan
; APPLICANT: Takeuchi, Yoshizumi
; APPLICANT: Mayhew, Mark
; TITLE OF INVENTION: Heat Shock Protein-Based Vaccines and Immunotherapies
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; FILE REFERENCE: 11746/461072
; CURRENT APPLICATION NUMBER: US/10/367,668
; CURRENT FILING DATE: 2003-02-14
; PRIOR APPLICATION NUMBER: US 09/794,517
; PRIOR FILING DATE: 2001-02-27
; PRIOR APPLICATION NUMBER: US 09/011,645
; PRIOR FILING DATE: 1998-02-13
; PRIOR APPLICATION NUMBER: PCT/US96/13363
; PRIOR FILING DATE: 1996-08-16
; PRIOR APPLICATION NUMBER: US 60/002,490
; PRIOR FILING DATE: 1995-08-18
; PRIOR APPLICATION NUMBER: US 60/002,479
; PRIOR FILING DATE: 1995-08-18
; NUMBER OF SEQ ID NOS: 349
; SOFTWARE: WordPerfect 8.0 for Windows
; SEQ ID NO 15
; LENGTH: 20
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: synthetic peptide
US-10-367-668-15

Query Match          100.0%; Score 44; DB 4; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.12;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 TLQDIVLHL 9
        |||||
        12 TLQDIVLHL 20

Db

RESULT 41
US-10-432-465-95
; Sequence 95, Application US/10432465
; Publication No. US20040091479A1
; GENERAL INFORMATION:
; APPLICANT: Nieland, John
; APPLICANT: Kaufmann, Andreas
; APPLICANT: Kather, Angela
; APPLICANT: Schinz, Manuela
; TITLE OF INVENTION: T-Cell Epitopes of the Papillomavirus L1
; TITLE OF INVENTION: Protein and E7 Protein and Their Use in Diagnosis and
; FILE REFERENCE: 50125/077001
; CURRENT APPLICATION NUMBER: US/10/432,465
; CURRENT FILING DATE: 2003-12-10
; PRIOR APPLICATION NUMBER: PCT/EP01/14037
; PRIOR FILING DATE: 2001-11-30
; PRIOR APPLICATION NUMBER: DE 10059631.2
; PRIOR FILING DATE: 2000-12-01
; NUMBER OF SEQ ID NOS: 116
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 95
; LENGTH: 20
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-432-465-95

Query Match          100.0%; Score 44; DB 4; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.12;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 TLQDIVLHL 9
        |||||
        7 TLQDIVLHL 15

Db

RESULT 42
US-10-433-091-64
; Sequence 64, Application US/10433091
; Publication No. US20040101533A1
; GENERAL INFORMATION:
```

APPLICANT: MULLER, RAINER
APPLICANT: NIELAND, JOHN
APPLICANT: GABELSBERGER, JOSEF
APPLICANT: HERBST, RUTH
TITLE OF INVENTION: MEDICAMENT FOR PREVENTING OR TREATING TUMORS CAUSED BY
FILE REFERENCE: 037067/0115
CURRENT APPLICATION NUMBER: US/10/433,091
CURRENT FILING DATE: 2003-11-25
PRIOR APPLICATION NUMBER: PCT/EP01/14038
PRIOR FILING DATE: 2001-11-30
PRIOR APPLICATION NUMBER: DE 100 59 630.4
PRIOR FILING DATE: 2000-12-01
NUMBER OF SEQ ID NOS: 72
SOFTWARE: Patentin Ver. 2.1
SEQ ID NO 64
LENGTH: 20
TYPE: PRT
ORGANISM: Human papillomavirus type 18
US-10-433-091-64

Query Match 100.0%; Score 44; DB 4; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.12;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TL0DIVLHL 9
Db 7 TL0DIVLHL 15

RESULT 43
US-10-367-674-14
Sequence 14, Application US/10367674
Publication No. US20040127684A1
GENERAL INFORMATION:
APPLICANT: Rothman, James E.
APPLICANT: Hartl, F. Ulrich
APPLICANT: Hoe, Mee H.
APPLICANT: Houghton, Alan
APPLICANT: Takechi, Yoshizumi
APPLICANT: Mayhew, Mark
TITLE OF INVENTION: Heat Shock Protein-Based Vaccines and Immunotherapies
FILE REFERENCE: 11746/4610211
CURRENT APPLICATION NUMBER: US/10/367,674
CURRENT FILING DATE: 2003-02-14
PRIOR APPLICATION NUMBER: US 10/170,738
PRIOR FILING DATE: 2002-06-13
PRIOR APPLICATION NUMBER: US 09/552,868
PRIOR FILING DATE: 2000-04-20
PRIOR APPLICATION NUMBER: US 09/011,645
PRIOR FILING DATE: 1998-02-13
PRIOR APPLICATION NUMBER: PCT/US96/13363
PRIOR FILING DATE: 1996-08-16
PRIOR APPLICATION NUMBER: US 60/002,490
PRIOR FILING DATE: 1995-08-18
PRIOR APPLICATION NUMBER: US 60/002,479
PRIOR FILING DATE: 1995-08-18
NUMBER OF SEQ ID NOS: 349
SOFTWARE: WordPerfect 8.0 for Windows
SEQ ID NO 14
LENGTH: 20
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: synthetic peptide
US-10-367-674-14

Query Match 100.0%; Score 44; DB 4; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.12;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 TL0DIVLHL 9
Db 7 TL0DIVLHL 15

Db 1 TL0DIVLHL 9
RESULT 44
US-10-367-674-15
Sequence 15, Application US/10367674
Publication No. US20040127684A1
GENERAL INFORMATION:
APPLICANT: Rothman, James E.
APPLICANT: Hartl, F. Ulrich
APPLICANT: Hoe, Mee H.
APPLICANT: Houghton, Alan
APPLICANT: Takechi, Yoshizumi
APPLICANT: Mayhew, Mark
TITLE OF INVENTION: Heat Shock Protein-Based Vaccines and Immunotherapies
FILE REFERENCE: 11746/4610211
CURRENT APPLICATION NUMBER: US/10/367,674
CURRENT FILING DATE: 2003-02-14
PRIOR APPLICATION NUMBER: US 10/170,738
PRIOR FILING DATE: 2002-06-13
PRIOR APPLICATION NUMBER: US 09/552,868
PRIOR FILING DATE: 2000-04-20
PRIOR APPLICATION NUMBER: US 09/011,645
PRIOR FILING DATE: 1998-02-13
PRIOR APPLICATION NUMBER: PCT/US96/13363
PRIOR FILING DATE: 1996-08-16
PRIOR APPLICATION NUMBER: US 60/002,490
PRIOR FILING DATE: 1995-08-18
PRIOR APPLICATION NUMBER: US 60/002,479
PRIOR FILING DATE: 1995-08-18
NUMBER OF SEQ ID NOS: 349
SOFTWARE: WordPerfect 8.0 for Windows
SEQ ID NO 15
LENGTH: 20
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: synthetic peptide
US-10-367-674-15

Query Match 100.0%; Score 44; DB 4; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.12;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TL0DIVLHL 9
Db 12 TL0DIVLHL 20

RESULT 45
US-10-433-091-4
Sequence 4, Application US/10433091
Publication No. US2004010153A1
GENERAL INFORMATION:
APPLICANT: MULLER, RAINER
APPLICANT: NIELAND, JOHN
APPLICANT: GABELSBERGER, JOSEF
APPLICANT: HERBST, RUTH
TITLE OF INVENTION: MEDICAMENT FOR PREVENTING OR TREATING TUMORS CAUSED BY
FILE REFERENCE: 037067/0115
CURRENT APPLICATION NUMBER: US/10/433,091
CURRENT FILING DATE: 2003-11-25
PRIOR APPLICATION NUMBER: PCT/EP01/14038
PRIOR FILING DATE: 2001-11-30
PRIOR APPLICATION NUMBER: DE 100 59 630.4
PRIOR FILING DATE: 2000-12-01
NUMBER OF SEQ ID NOS: 72
SOFTWARE: Patentin Ver. 2.1
SEQ ID NO 4
LENGTH: 105
TYPE: PRT
ORGANISM: Human papillomavirus type 18

US-10-433-091-4

Query Match 100.0%; Score 44; DB 4; Length 105;
Best Local Similarity 100.0%; Pred. No. 0.7;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TLQDIVLHL 9
|||
Db 7 TLQDIVLHL 15

RESULT 46

US-10-800-023-28
; Sequence 28, Application US/10800023
; Publication No. US2004025688A1
; GENERAL INFORMATION:
; APPLICANT: Steinman, Ralph
; APPLICANT: Nussenzweig, Michel
; APPLICANT: Hawiger, Daniel
; APPLICANT: Bonifaz, Laura
; TITLE OF INVENTION: Enhanced Antigen Delivery and Modulation
; TITLE OF INVENTION: of the Immune Response Therefrom
; FILE REFERENCE: 600-1-081CONCIP1
; CURRENT FILING DATE: 2004-03-14
; PRIOR APPLICATION NUMBER: US/10/800,023
; PRIOR FILING DATE: 2001-08-09
; PRIOR APPLICATION NUMBER: 09/925,284
; PRIOR FILING DATE: 2000-06-05
; PRIOR APPLICATION NUMBER: PCT/US96/01383
; PRIOR FILING DATE: 1996-01-31
; PRIOR APPLICATION NUMBER: 08/381,528
; PRIOR FILING DATE: 1995-01-31
; NUMBER OF SEQ ID NOS: 37
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 28
; LENGTH: 105
; TYPE: PRT
; ORGANISM: human papilloma virus E7 protein
US-10-800-023-28

Query Match 100.0%; Score 44; DB 5; Length 105;
Best Local Similarity 100.0%; Pred. No. 0.7;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TLQDIVLHL 9
|||
Db 7 TLQDIVLHL 15

RESULT 47

US-10-472-724-8
; Sequence 8, Application US/10472724
; Publication No. US20040171806A1
; GENERAL INFORMATION:
; APPLICANT: Zur Hausen, Harald
; APPLICANT: Cid-Arregui, Angel
; TITLE OF INVENTION: Modified HIV E6 and E7 genes and proteins useful for vaccination
; FILE REFERENCE: 4121-154
; CURRENT APPLICATION NUMBER: US/10/472,724
; PRIOR FILING DATE: 2003-09-17
; PRIOR APPLICATION NUMBER: PCT/EP02/03271
; PRIOR FILING DATE: 2002-03-22
; PRIOR APPLICATION NUMBER: EP 01107271.7
; PRIOR FILING DATE: 2001-03-23
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 8
; LENGTH: 118
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Construct

US-10-472-724-8

Query Match 100.0%; Score 44; DB 4; Length 118;
Best Local Similarity 100.0%; Pred. No. 0.8;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TLQDIVLHL 9
|||
Db 12 TLQDIVLHL 20

RESULT 48

US-10-751-845-159
; Sequence 159, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
; APPLICANT: Hedley, Mary Lynne
; APPLICANT: Urban, Robert G.
; APPLICANT: Chiciz, Roman M.
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES
; FILE REFERENCE: 08191-013001
; CURRENT APPLICATION NUMBER: US/10/751,845
; CURRENT FILING DATE: 2004-01-05
; PRIOR APPLICATION NUMBER: US/09/664,225
; PRIOR FILING DATE: 2000-08-18
; PRIOR APPLICATION NUMBER: US 60/169,846
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: US 60/154,665
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 163
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 159
; LENGTH: 119
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Artificial fusion sequence
US-10-751-845-159

Query Match 100.0%; Score 44; DB 5; Length 119;
Best Local Similarity 100.0%; Pred. No. 0.81;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TLQDIVLHL 9
|||
Db 72 TLQDIVLHL 80

RESULT 49

US-10-000-903-16
; Sequence 16, Application US/10000903
; Publication No. US20020182221A1
; GENERAL INFORMATION:
; APPLICANT: Bruck, Claudine
; APPLICANT: Cabezon Silva, Teresa
; APPLICANT: Delisse, Anne-Marie Eva Bernarde
; APPLICANT: Gerard, Catherine Marie Ghislaine
; APPLICANT: Lombardo-Bencheikh, Angela
; TITLE OF INVENTION: Vaccine
; FILE REFERENCE: B45107
; CURRENT APPLICATION NUMBER: US/10/000,903
; CURRENT FILING DATE: 2001-10-01
; PRIOR APPLICATION NUMBER: PCT/EP98/05285
; PRIOR FILING DATE: 1998-08-17
; PRIOR APPLICATION NUMBER: GB 9717953.5
; PRIOR FILING DATE: 1997-08-22
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 16
; LENGTH: 227
; TYPE: PRT
; ORGANISM: Homo sapien
US-10-000-903-16

Query Match 100.0%; Score 44; DB 4; Length 227;
Best Local Similarity 100.0%; Pred. No. 1.6;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TLQDIVLHL 9
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120 TLQDIVLHL 128

RESULT 50

US-10-000-903-19
; Sequence 19. Application US/10000903
; Publication No. US20020182221A1
; GENERAL INFORMATION:
; APPLICANT: Bruck, Claudine
; APPLICANT: Cabezon Silva, Teresa
; APPLICANT: Delisse, Anne-Marie Eva Fernande
; APPLICANT: Gerard, Catherine Marie Ghislaine
; APPLICANT: Lombardo-Bencheikh, Angela
; TITLE OR INVENTION: Vaccine
; FILE REFERENCE: B45107
; CURRENT APPLICATION NUMBER: US/10/000,903
; CURRENT FILING DATE: 2001-10-01
; PRIOR APPLICATION NUMBER: PCT/EP98/05285
; PRIOR FILING DATE: 1998-08-17
; PRIOR APPLICATION NUMBER: GB 9717953.5
; PRIOR FILING DATE: 1997-08-22
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 19
; LENGTH: 227
; TYPE: PRT
; ORGANISM: Homo sapien
; US-10-000-903-19

Query Match 100.0%; Score 44; DB 4; Length 227;
Best Local Similarity 100.0%; Pred. No. 1.6;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TLQDIVLHL 9
|||
120 TLQDIVLHL 128

Search completed: May 5, 2006, 08:18:07
Job time : 62.8 secs

GenCore version 5.1.7
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OM protein - protein search, using sw model

Run on: May 5, 2006, 08:08:06 ; Search time 8.4 Seconds
(without alignments)
49.591 Million cell updates/sec

Title: US-08-170-344-30
Perfect score: 44
Sequence: 1 TLCDIVLHL 9

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 235405 seqs, 46284737 residues
Total number of hits satisfying chosen parameters: 235405

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 1000 summaries

Database : Published Applications_AA_New:
1: /SIDS5/ptodata/1/pubppaa/US08_NEW_PUB.pep1:*
2: /SIDS5/ptodata/1/pubppaa/US06_NEW_PUB.pep1:*
3: /SIDS5/ptodata/1/pubppaa/US07_NEW_PUB.pep1:*
4: /SIDS5/ptodata/1/pubppaa/US08_NEW_PUB.pep1:*
5: /SIDS5/ptodata/1/pubppaa/PCT_NEW_PUB.pep1:*
6: /SIDS5/ptodata/1/pubppaa/US09_NEW_PUB.pep1:*
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12: /SIDS5/ptodata/1/pubppaa/US60_NEW_PUB.pep1:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	44	100.0	9	US-10-530-061-306	Sequence 306, App
2	44	100.0	15	US-10-530-061-1716	Sequence 1716, App
3	44	100.0	105	US-10-530-253-27	Sequence 27, App1
4	40	90.9	15	US-10-530-061-1728	Sequence 1728, App
5	40	90.9	106	US-10-530-253-32	Sequence 32, App1
6	36	81.8	2516	US-10-647-956A-2	Sequence 2, App1
7	35	79.5	9	US-10-530-061-669	Sequence 669, App
8	35	79.5	15	US-10-530-061-1735	Sequence 1735, App
9	35	79.5	105	US-10-530-253-35	Sequence 35, App
10	35	79.5	300	US-11-087-099-8504	Sequence 8504, App
11	34	77.3	101	US-10-530-253-33	Sequence 33, App1
12	34	77.3	2504	US-10-647-956A-8	Sequence 8, App1
13	33	75.0	189	US-11-087-099-6536	Sequence 6536, App
14	32	72.7	9	US-10-530-061-670	Sequence 670, App
15	32	72.7	502	US-11-072-512-3860	Sequence 3860, App
16	32	72.7	716	US-10-467-657-6200	Sequence 6200, App
17	32	72.7	744	US-10-467-657-1936	Sequence 1936, App
18	31	70.5	17	US-10-519-122-76	Sequence 76, App1
19	31	70.5	109	US-10-530-253-31	Sequence 31, App
20	31	70.5	140	US-11-188-298-1495	Sequence 1495, App
21	31	70.5	150	US-11-087-099-9129	Sequence 9129, App

22	31	70.5	160	US-11-087-099-6056	Sequence 6056, App
23	31	70.5	161	US-11-087-099-1773	Sequence 1773, App
24	31	70.5	206	US-11-087-099-601	Sequence 601, App
25	31	70.5	255	US-11-087-099-12209	Sequence 12209, App
26	31	70.5	351	US-11-087-099-889	Sequence 889, App
27	31	70.5	351	US-11-087-099-1980	Sequence 1980, App
28	31	70.5	351	US-11-087-099-2431	Sequence 2431, App
29	31	70.5	351	US-11-087-099-4787	Sequence 4787, App
30	31	70.5	351	US-11-087-099-8284	Sequence 8284, App
31	31	70.5	351	US-11-087-099-9990	Sequence 9990, App
32	31	70.5	351	US-11-087-099-10862	Sequence 10862, App
33	31	70.5	351	US-11-087-099-11039	Sequence 11039, App
34	31	70.5	351	US-11-087-099-5419	Sequence 5419, App
35	31	70.5	351	US-11-087-099-2883	Sequence 2883, App
36	31	70.5	520	US-11-087-099-10337	Sequence 10337, App
37	31	70.5	548	US-11-079-463-9518	Sequence 9518, App
38	30	68.2	15	US-10-530-061-1736	Sequence 1736, App
39	30	68.2	98	US-10-530-253-28	Sequence 28, App1
40	30	68.2	99	US-10-530-253-30	Sequence 30, App1
41	30	68.2	170	US-11-045-004-954	Sequence 954, App
42	30	68.2	206	US-11-172-740-2176	Sequence 2176, App
43	30	68.2	270	US-11-188-298-13065	Sequence 13065, App
44	30	68.2	279	US-11-045-004-1256	Sequence 1256, App
45	30	68.2	408	US-11-096-568A-18021	Sequence 18021, App
46	30	68.2	412	US-11-087-099-7420	Sequence 7420, App
47	30	68.2	433	US-11-072-512-3033	Sequence 3033, App
48	30	68.2	440	US-11-096-568A-18020	Sequence 18020, App
49	30	68.2	448	US-11-096-568A-18019	Sequence 18019, App
50	30	68.2	451	US-10-784-004-466	Sequence 466, App
51	30	68.2	451	US-10-784-004-962	Sequence 962, App
52	30	68.2	462	US-11-045-004-877	Sequence 877, App
53	30	68.2	589	US-11-188-298-18032	Sequence 18032, App
54	30	68.2	680	US-10-467-657-2008	Sequence 2008, App
55	30	68.2	755	US-11-087-099-8307	Sequence 8307, App
56	30	68.2	916	US-11-098-688-10721	Sequence 10721, App
57	30	68.2	920	US-10-330-773-376	Sequence 736, App
58	30	68.2	1018	US-10-784-004-733	Sequence 733, App
59	30	68.2	1018	US-10-784-004-1089	Sequence 1089, App
60	30	68.2	1019	US-10-784-004-415	Sequence 415, App
61	30	68.2	1019	US-10-784-004-943	Sequence 943, App
62	30	68.2	1019	US-11-156-300-4	Sequence 4, App1
63	30	68.2	1019	US-11-156-300-6	Sequence 6, App1
64	29	65.9	123	US-10-530-253-38	Sequence 38, App1
65	29	65.9	123	US-10-330-773-694	Sequence 694, App
66	29	65.9	251	US-11-087-099-6591	Sequence 6591, App
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292	27	61.4	311	9	US-10-219-064-174	Sequence 174, App	365	27	61.4	483	9	US-10-934-444-156	Sequence 156, App
293	27	61.4	311	9	US-10-233-134-174	Sequence 174, App	366	27	61.4	483	11	US-11-116-881A-165	Sequence 165, App
294	27	61.4	314	9	US-10-454-437-74	Sequence 174, Appl	367	27	61.4	483	11	US-11-096-568A-34242	Sequence 34242, A
295	27	61.4	316	9	US-10-995-793-77	Sequence 77, Appl	368	27	61.4	484	11	US-11-172-740-1301	Sequence 1301, Ap
296	27	61.4	316	9	US-11-125-263A-4	Sequence 4, Appl1	369	27	61.4	490	11	US-11-172-740-1300	Sequence 1300, Ap
297	27	61.4	317	9	US-10-828-033-30	Sequence 30, Appl	370	27	61.4	490	11	US-11-188-298-20454	Sequence 20454, A
298	27	61.4	317	11	US-11-124-368A-272	Sequence 272, App	371	27	61.4	493	11	US-11-096-568A-8005	Sequence 8005, Ap
299	27	61.4	317	11	US-11-124-368A-274	Sequence 274, App	372	27	61.4	497	11	US-11-274-344-17	Sequence 17, Appl
300	27	61.4	318	11	US-11-246-980-4	Sequence 4, Appl1	373	27	61.4	502	11	US-11-096-568A-34241	Sequence 34241, A
301	27	61.4	320	11	US-11-188-298-17876	Sequence 17876, A	374	27	61.4	509	11	US-11-096-568A-44240	Sequence 44240, A
302	27	61.4	325	11	US-11-045-004-1804	Sequence 1804, Ap	375	27	61.4	511	11	US-11-087-099-1832	Sequence 1832, Ap
303	27	61.4	328	11	US-11-087-099-11817	Sequence 11817, A	376	27	61.4	511	11	US-11-087-099-10531	Sequence 10531, A
304	27	61.4	342	11	US-11-096-568A-20316	Sequence 20316, A	377	27	61.4	512	11	US-11-201-822-62	Sequence 62, Appl
305	27	61.4	344	11	US-11-096-568A-6342	Sequence 6342, Ap	378	27	61.4	512	11	US-11-190-120-4	Sequence 120, Ap
306	27	61.4	347	11	US-11-072-512-2116	Sequence 2116, Ap	379	27	61.4	514	11	US-11-051-720-1346	Sequence 1346, Appl
307	27	61.4	351	11	US-11-087-099-2245	Sequence 2245, Ap	380	27	61.4	523	11	US-11-096-568A-27700	Sequence 27700, A
308	27	61.4	351	11	US-11-087-099-8263	Sequence 8263, Ap	381	27	61.4	525	11	US-11-087-099-11162	Sequence 11162, A
309	27	61.4	354	9	US-10-784-004-420	Sequence 420, App	382	27	61.4	527	11	US-11-188-298-10301	Sequence 10301, A
310	27	61.4	357	11	US-11-096-568A-23149	Sequence 23149, A	383	27	61.4	527	11	US-11-096-568A-20314	Sequence 20314, A
311	27	61.4	358	9	US-10-467-657-7030	Sequence 7030, Ap	384	27	61.4	530	11	US-11-087-099-1809	Sequence 1809, Ap
312	27	61.4	359	11	US-11-124-368A-273	Sequence 273, App	385	27	61.4	571	11	US-11-079-463-8124	Sequence 8124, Ap
313	27	61.4	364	11	US-11-096-568A-23148	Sequence 23148, A	386	27	61.4	576	11	US-11-188-298-10400	Sequence 10400, A

387	27	61.4	601	11	US-11-014-842A-37	Sequence 37, Appl	460	27	61.4	673	11	US-11-224-624-68	Sequence 68, Appl
388	27	61.4	608	11	US-11-079-463-7501	Sequence 7501, Ap	461	27	61.4	673	11	US-11-224-624-70	Sequence 70, Appl
389	27	61.4	613	11	US-11-014-842A-33	Sequence 33, Appl	462	27	61.4	673	11	US-11-224-624-86	Sequence 86, Appl
390	27	61.4	616	11	US-11-058-727-16	Sequence 16, Appl	463	27	61.4	673	11	US-11-224-624-88	Sequence 88, Appl
391	27	61.4	616	11	US-11-108-389-16	Sequence 16, Appl	464	27	61.4	673	11	US-11-224-624-90	Sequence 90, Appl
392	27	61.4	616	11	US-11-224-624-16	Sequence 16, Appl	465	27	61.4	673	11	US-11-224-624-92	Sequence 92, Appl
393	27	61.4	620	11	US-11-058-727-20	Sequence 20, Appl	466	27	61.4	673	11	US-11-224-624-94	Sequence 94, Appl
394	27	61.4	620	11	US-11-108-389-20	Sequence 20, Appl	467	27	61.4	674	11	US-11-058-727-44	Sequence 44, Appl
395	27	61.4	620	11	US-11-224-624-20	Sequence 20, Appl	468	27	61.4	674	11	US-11-058-727-50	Sequence 50, Appl
396	27	61.4	644	11	US-11-045-004-125	Sequence 125, App	469	27	61.4	674	11	US-11-058-727-76	Sequence 76, Appl
397	27	61.4	651	11	US-11-096-568A-27699	Sequence 27699, A	470	27	61.4	674	11	US-11-058-727-82	Sequence 82, Appl
398	27	61.4	653	11	US-11-045-004-468	Sequence 468, App	471	27	61.4	674	11	US-11-108-389-50	Sequence 40, Appl
399	27	61.4	656	11	US-11-087-099-7640	Sequence 7640, Ap	472	27	61.4	674	11	US-11-108-389-54	Sequence 50, Appl
400	27	61.4	658	11	US-11-072-175-163	Sequence 163, App	473	27	61.4	674	11	US-11-108-389-76	Sequence 76, Appl
401	27	61.4	662	11	US-11-188-298-13798	Sequence 13798, A	474	27	61.4	674	11	US-11-108-389-82	Sequence 82, Appl
402	27	61.4	668	11	US-11-072-512-2308	Sequence 2308, Ap	475	27	61.4	674	11	US-11-224-624-44	Sequence 44, Appl
403	27	61.4	669	11	US-11-058-727-6	Sequence 6, Appl1	476	27	61.4	674	11	US-11-224-624-50	Sequence 50, Appl
404	27	61.4	669	11	US-11-058-727-12	Sequence 12, Appl	477	27	61.4	674	11	US-11-224-624-76	Sequence 76, Appl
405	27	61.4	669	11	US-11-108-389-6	Sequence 6, Appl1	478	27	61.4	674	11	US-11-224-624-82	Sequence 82, Appl
406	27	61.4	669	11	US-11-014-842A-29	Sequence 29, Appl	480	27	61.4	675	11	US-11-058-727-42	Sequence 42, Appl
407	27	61.4	669	11	US-11-224-624-12	Sequence 12, Appl	481	27	61.4	675	11	US-11-058-727-46	Sequence 46, Appl
408	27	61.4	669	11	US-11-224-624-6	Sequence 6, Appl1	482	27	61.4	675	11	US-11-058-727-48	Sequence 48, Appl
409	27	61.4	669	11	US-11-224-624-12	Sequence 12, Appl	483	27	61.4	675	11	US-11-058-727-74	Sequence 74, Appl
410	27	61.4	673	11	US-11-058-727-8	Sequence 8, Appl1	484	27	61.4	675	11	US-11-058-727-78	Sequence 78, Appl
411	27	61.4	673	11	US-11-058-727-22	Sequence 22, Appl	485	27	61.4	675	11	US-11-058-727-80	Sequence 80, Appl
412	27	61.4	673	11	US-11-058-727-26	Sequence 26, Appl	486	27	61.4	675	11	US-11-108-389-46	Sequence 46, Appl
413	27	61.4	673	11	US-11-058-727-30	Sequence 30, Appl	487	27	61.4	675	11	US-11-108-389-48	Sequence 48, Appl
414	27	61.4	673	11	US-11-058-727-34	Sequence 34, Appl	488	27	61.4	675	11	US-11-108-389-74	Sequence 74, Appl
415	27	61.4	673	11	US-11-058-727-54	Sequence 54, Appl	489	27	61.4	675	11	US-11-108-389-84	Sequence 84, Appl
416	27	61.4	673	11	US-11-058-727-56	Sequence 56, Appl	490	27	61.4	675	11	US-11-108-389-78	Sequence 78, Appl
417	27	61.4	673	11	US-11-058-727-58	Sequence 58, Appl	491	27	61.4	675	11	US-11-108-389-80	Sequence 80, Appl
418	27	61.4	673	11	US-11-058-727-60	Sequence 60, Appl	492	27	61.4	675	11	US-11-224-624-42	Sequence 42, Appl
419	27	61.4	673	11	US-11-058-727-62	Sequence 62, Appl	493	27	61.4	675	11	US-11-224-624-46	Sequence 46, Appl
420	27	61.4	673	11	US-11-058-727-64	Sequence 64, Appl	494	27	61.4	675	11	US-11-224-624-48	Sequence 48, Appl
421	27	61.4	673	11	US-11-058-727-66	Sequence 66, Appl	495	27	61.4	675	11	US-11-224-624-74	Sequence 74, Appl
422	27	61.4	673	11	US-11-058-727-68	Sequence 68, Appl	496	27	61.4	675	11	US-11-224-624-78	Sequence 78, Appl
423	27	61.4	673	11	US-11-058-727-70	Sequence 70, Appl	497	27	61.4	676	11	US-11-224-624-80	Sequence 80, Appl
424	27	61.4	673	11	US-11-058-727-86	Sequence 86, Appl	498	27	61.4	676	11	US-11-058-727-40	Sequence 40, Appl
425	27	61.4	673	11	US-11-058-727-88	Sequence 88, Appl	499	27	61.4	676	11	US-11-058-727-72	Sequence 72, Appl
426	27	61.4	673	11	US-11-058-727-90	Sequence 90, Appl	500	27	61.4	676	11	US-11-108-389-40	Sequence 40, Appl
427	27	61.4	673	11	US-11-058-727-92	Sequence 92, Appl	501	27	61.4	676	11	US-11-108-389-72	Sequence 72, Appl
428	27	61.4	673	11	US-11-058-727-94	Sequence 94, Appl	502	27	61.4	676	11	US-11-224-624-40	Sequence 40, Appl
429	27	61.4	673	11	US-11-108-389-8	Sequence 8, Appl1	503	27	61.4	676	11	US-11-224-624-72	Sequence 72, Appl
430	27	61.4	673	11	US-11-108-389-22	Sequence 22, Appl	504	27	61.4	677	11	US-11-058-727-52	Sequence 52, Appl
431	27	61.4	673	11	US-11-108-389-26	Sequence 26, Appl	505	27	61.4	677	11	US-11-058-727-84	Sequence 84, Appl
432	27	61.4	673	11	US-11-108-389-30	Sequence 30, Appl	506	27	61.4	677	11	US-11-108-389-52	Sequence 52, Appl
433	27	61.4	673	11	US-11-108-389-34	Sequence 34, Appl	507	27	61.4	677	11	US-11-108-389-84	Sequence 84, Appl
434	27	61.4	673	11	US-11-108-389-54	Sequence 54, Appl	508	27	61.4	677	11	US-11-224-624-52	Sequence 52, Appl
435	27	61.4	673	11	US-11-108-389-56	Sequence 56, Appl	509	27	61.4	677	11	US-11-224-624-84	Sequence 84, Appl
436	27	61.4	673	11	US-11-108-389-58	Sequence 58, Appl	510	27	61.4	681	11	US-11-014-842A-25	Sequence 25, Appl
437	27	61.4	673	11	US-11-108-389-60	Sequence 60, Appl	511	27	61.4	710	9	US-10-793-626-710	Sequence 710, App
438	27	61.4	673	11	US-11-108-389-62	Sequence 62, Appl	512	27	61.4	710	11	US-11-124-367A-354	Sequence 354, App
439	27	61.4	673	11	US-11-108-389-64	Sequence 64, Appl	513	27	61.4	710	11	US-11-124-367A-359	Sequence 359, App
440	27	61.4	673	11	US-11-108-389-66	Sequence 66, Appl	514	27	61.4	713	11	US-11-124-367A-355	Sequence 355, App
441	27	61.4	673	11	US-11-108-389-68	Sequence 68, Appl	515	27	61.4	713	11	US-11-124-367A-356	Sequence 356, App
442	27	61.4	673	11	US-11-108-389-68	Sequence 68, Appl	516	27	61.4	713	11	US-11-124-367A-358	Sequence 358, App
443	27	61.4	673	11	US-11-108-389-86	Sequence 86, Appl	517	27	61.4	725	11	US-11-051-720-1341	Sequence 1341, Ap
444	27	61.4	673	11	US-11-108-389-88	Sequence 88, Appl	518	27	61.4	734	9	US-10-821-234-1056	Sequence 1056, Ap
445	27	61.4	673	11	US-11-108-389-90	Sequence 90, Appl	519	27	61.4	737	11	US-11-051-720-1345	Sequence 1345, Ap
446	27	61.4	673	11	US-11-108-389-90	Sequence 92, Appl	520	27	61.4	751	11	US-11-087-099-4999	Sequence 4999, Ap
447	27	61.4	673	11	US-11-108-389-94	Sequence 94, Appl	521	27	61.4	752	11	US-11-188-298-1988	Sequence 1988, Ap
448	27	61.4	673	11	US-11-224-624-8	Sequence 8, Appl1	522	27	61.4	752	11	US-11-188-298-12440	Sequence 12440, A
449	27	61.4	673	11	US-11-224-624-22	Sequence 22, Appl	523	27	61.4	787	11	US-11-087-099-10359	Sequence 10359, A
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451	27	61.4	673	11	US-11-224-624-30	Sequence 30, Appl	525	27	61.4	787	11	US-11-087-099-11835	Sequence 11835, A
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454	27	61.4	673	11	US-11-224-624-56	Sequence 56, Appl	528	27	61.4	789	11	US-11-188-298-22001	Sequence 22001, A
455	27	61.4	673	11	US-11-224-624-58	Sequence 58, Appl	529	27	61.4	789	11	US-11-014-842A-39	Sequence 39, Appl
456	27	61.4	673	11	US-11-224-624-60	Sequence 60, Appl	530	27	61.4	792	11	US-11-103-957-25	Sequence 25, Appl
457	27	61.4	673	11	US-11-224-624-62	Sequence 62, Appl	531	27	61.4	801	11	US-11-014-842A-35	Sequence 35, Appl
458	27	61.4	673	11	US-11-224-624-64	Sequence 64, Appl	532	27	61.4	843	9	US-10-501-035-362	Sequence 362, App
459	27	61.4	673	11	US-11-224-624-66	Sequence 66, Appl							

533	27	61.4	847	8	US-10-505-928-300	Sequence 300, App	606	26	59.1	234	11	US-11-098-686-10151	Sequence 10151, A
534	27	61.4	853	8	US-10-514-462-3	Sequence 3, Appl1	607	26	59.1	240	11	US-11-172-740-1482	Sequence 1482, Ap
535	27	61.4	857	9	US-10-613-744-11	Sequence 11, Appl1	608	26	59.1	242	11	US-11-188-298-11830	Sequence 11830, A
536	27	61.4	857	11	US-11-014-842A-31	Sequence 31, Appl1	609	26	59.1	243	11	US-11-072-512-2404	Sequence 2404, Ap
537	27	61.4	869	11	US-11-014-842A-27	Sequence 27, Appl1	610	26	59.1	244	9	US-10-793-626-7780	Sequence 2780, Ap
538	27	61.4	911	9	US-10-330-773-712	Sequence 712, App	611	26	59.1	252	11	US-11-156-516-28	Sequence 28, Appl1
539	27	61.4	957	11	US-11-051-720-1438	Sequence 1438, Ap	612	26	59.1	254	9	US-10-821-334-861	Sequence 861, App
540	27	61.4	974	11	US-11-096-568A-26839	Sequence 26839, A	613	26	59.1	261	11	US-11-096-568A-22079	Sequence 22079, A
541	27	61.4	993	11	US-11-087-099-707	Sequence 707, App	614	26	59.1	266	11	US-11-055-822-620	Sequence 620, App
542	27	61.4	1004	9	US-10-204-639-18	Sequence 18, App	615	26	59.1	280	11	US-11-096-568A-4702	Sequence 4702, Ap
543	27	61.4	1034	11	US-11-072-512-2343	Sequence 2343, Ap	616	26	59.1	297	11	US-11-079-463-5468	Sequence 5468, Ap
544	27	61.4	1055	11	US-11-096-568A-26838	Sequence 26838, A	617	26	59.1	300	11	US-11-096-568A-7103	Sequence 7103, Ap
545	27	61.4	1057	11	US-11-096-568A-26837	Sequence 26837, A	618	26	59.1	301	9	US-10-995-793-75	Sequence 75, Appl1
546	27	61.4	1104	9	US-10-330-773-794	Sequence 794, App	619	26	59.1	302	11	US-11-156-084-351	Sequence 351, App
547	27	61.4	1115	11	US-11-087-099-8680	Sequence 8680, Ap	620	26	59.1	308	11	US-11-096-568A-4701	Sequence 4701, Ap
548	27	61.4	1117	11	US-11-087-099-6893	Sequence 6893, Ap	621	26	59.1	311	11	US-11-188-298-12273	Sequence 12273, A
549	27	61.4	1118	11	US-11-087-099-9174	Sequence 9174, Ap	622	26	59.1	312	11	US-11-124-367A-514	Sequence 514, App
550	27	61.4	1106	11	US-11-058-727-2	Sequence 2, Appl1	623	26	59.1	315	9	US-10-793-626-7100	Sequence 2100, Ap
551	27	61.4	1206	11	US-11-108-389-2	Sequence 2, Appl1	624	26	59.1	319	9	US-10-784-004-446	Sequence 446, App
552	27	61.4	1206	11	US-11-224-624-2	Sequence 2, Appl1	625	26	59.1	319	9	US-10-784-004-463	Sequence 763, App
553	27	61.4	1250	9	US-10-330-773-792	Sequence 792, App	626	26	59.1	320	11	US-11-079-463-7233	Sequence 7233, Ap
554	27	61.4	1278	9	US-10-995-561-952	Sequence 952, App	627	26	59.1	320	11	US-11-188-298-4318	Sequence 4318, Ap
555	27	61.4	1382	11	US-11-208-814-7	Sequence 7, Appl1	628	26	59.1	324	9	US-10-467-657-992	Sequence 992, App
556	27	61.4	1382	11	US-11-208-814-9	Sequence 9, Appl1	629	26	59.1	325	11	US-11-188-298-9372	Sequence 9372, Ap
557	27	61.4	1425	9	US-10-330-773-797	Sequence 797, App	630	26	59.1	325	11	US-11-188-298-18863	Sequence 18863, A
558	27	61.4	1873	9	US-10-784-004-696	Sequence 696, App	631	26	59.1	330	11	US-11-072512-3524	Sequence 3524, Ap
559	27	61.4	1873	9	US-10-784-004-710	Sequence 710, App	632	26	59.1	332	11	US-11-087-099-4981	Sequence 4981, Ap
560	27	61.4	3375	11	US-11-044-111-23	Sequence 23, Appl1	633	26	59.1	333	9	US-10-506-454-402	Sequence 402, App
561	27	61.4	4051	8	US-10-501-834-7	Sequence 7, Appl1	634	26	59.1	333	11	US-11-096-568A-4415	Sequence 4415, Ap
562	27	61.4	4059	8	US-10-501-834-6	Sequence 6, Appl1	635	26	59.1	334	11	US-11-087-099-6029	Sequence 6029, Ap
563	27	61.4	7102	11	US-11-143-880-12	Sequence 12, Appl1	636	26	59.1	334	11	US-11-096-568A-29329	Sequence 29329, A
564	26	59.1	13	11	US-11-155-843-18	Sequence 18, App	637	26	59.1	334	11	US-11-188-298-966	Sequence 966, App
565	26	59.1	15	9	US-10-530-061-1737	Sequence 137, Ap	638	26	59.1	336	9	US-10-506-454-1366	Sequence 1366, Ap
566	26	59.1	17	11	US-11-155-843-9	Sequence 9, Appl1	639	26	59.1	336	11	US-11-188-298-12336	Sequence 12336, A
567	26	59.1	17	11	US-11-155-843-10	Sequence 10, Appl1	640	26	59.1	337	11	US-11-087-099-7477	Sequence 7477, Ap
568	26	59.1	88	11	US-11-264-096-1690	Sequence 1690, Ap	641	26	59.1	337	11	US-11-096-568A-32609	Sequence 32609, A
569	26	59.1	90	11	US-11-096-568A-32664	Sequence 32664, A	642	26	59.1	338	11	US-11-096-568A-29329	Sequence 29329, A
570	26	59.1	104	9	US-10-485-788A-678	Sequence 678, App	643	26	59.1	339	11	US-11-188-298-17813	Sequence 17813, A
571	26	59.1	104	11	US-11-053-076-44	Sequence 44, Appl1	644	26	59.1	340	9	US-10-501-435-296	Sequence 296, App
572	26	59.1	132	11	US-11-096-568A-32663	Sequence 32663, A	645	26	59.1	340	11	US-11-096-568A-22078	Sequence 22078, A
573	26	59.1	136	11	US-11-096-568A-10509	Sequence 10509, A	646	26	59.1	342	11	US-11-188-298-366	Sequence 366, App
574	26	59.1	143	11	US-11-094-519A-52	Sequence 52, Appl1	647	26	59.1	343	11	US-11-096-568A-32608	Sequence 32608, A
575	26	59.1	144	11	US-11-188-298-17948	Sequence 17948, A	648	26	59.1	343	11	US-11-079-463-9703	Sequence 9703, Ap
576	26	59.1	146	11	US-11-188-298-18346	Sequence 18346, A	649	26	59.1	344	11	US-11-096-568A-29364	Sequence 29364, A
577	26	59.1	147	11	US-11-096-568A-11229	Sequence 11229, A	650	26	59.1	345	9	US-10-131-826A-286	Sequence 286, App
578	26	59.1	150	11	US-11-096-568A-11228	Sequence 11228, A	651	26	59.1	345	9	US-10-921-793-72	Sequence 72, Appl1
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580	26	59.1	154	11	US-11-096-568A-11227	Sequence 11227, A	653	26	59.1	345	9	US-10-931-198-72	Sequence 72, Appl1
581	26	59.1	154	11	US-11-188-298-3964	Sequence 3964, A	654	26	59.1	345	9	US-10-942-042-72	Sequence 42, Appl1
582	26	59.1	158	9	US-10-530-353-19	Sequence 19, Appl1	655	26	59.1	345	9	US-10-216-161A-488	Sequence 488, App
583	26	59.1	159	11	US-11-188-298-5836	Sequence 5836, Ap	656	26	59.1	345	9	US-10-137-873A-286	Sequence 286, App
584	26	59.1	159	11	US-11-188-298-9734	Sequence 9734, Ap	657	26	59.1	345	9	US-10-152-370-286	Sequence 286, App
585	26	59.1	159	11	US-11-188-298-14027	Sequence 14027, A	658	26	59.1	345	11	US-11-073-603-6	Sequence 6, Appl1
586	26	59.1	159	11	US-11-188-298-14030	Sequence 14030, A	659	26	59.1	345	11	US-11-064-774A-149	Sequence 149, App
587	26	59.1	164	11	US-11-094-519A-30	Sequence 30, Appl1	660	26	59.1	345	11	US-11-075-400-11	Sequence 12, Appl1
588	26	59.1	165	11	US-11-096-568A-32662	Sequence 32662, A	661	26	59.1	345	11	US-11-076-427A-22	Sequence 22, Appl1
589	26	59.1	165	11	US-11-172-740-1130	Sequence 1130, Ap	662	26	59.1	345	11	US-11-072-175-191	Sequence 191, App
590	26	59.1	170	11	US-11-096-568A-10508	Sequence 10508, A	663	26	59.1	345	11	US-11-075-047A-103	Sequence 103, App
591	26	59.1	177	11	US-11-076-164-4	Sequence 4, Appl1	664	26	59.1	345	11	US-11-140-28A-32	Sequence 32, Appl1
592	26	59.1	179	11	US-11-177-987-41	Sequence 41, Appl1	665	26	59.1	345	11	US-11-290-153-286	Sequence 286, App
593	26	59.1	188	9	US-10-980-388-101	Sequence 101, App	666	26	59.1	346	11	US-11-087-099-2793	Sequence 2793, Ap
594	26	59.1	197	11	US-11-094-519A-34	Sequence 34, Appl1	667	26	59.1	346	11	US-11-096-568A-29328	Sequence 29328, A
595	26	59.1	205	11	US-11-079-463-5835	Sequence 5835, Ap	668	26	59.1	347	11	US-11-087-099-4236	Sequence 4236, Ap
596	26	59.1	207	9	US-10-504-544-4	Sequence 4, Appl1	669	26	59.1	347	11	US-11-188-298-3956	Sequence 3956, Ap
597	26	59.1	207	11	US-11-186-284-205	Sequence 205, App	670	26	59.1	347	11	US-11-188-298-6170	Sequence 6170, Ap
598	26	59.1	207	11	US-11-096-568A-10507	Sequence 10507, A	671	26	59.1	347	11	US-11-188-298-13755	Sequence 13755, A
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604	26	59.1	231	11	US-11-172-740-1481	Sequence 1481, Ap	677	26	59.1	353	11	US-11-188-298-5200	Sequence 5200, Ap
605	26	59.1	233	9	US-10-793-626-480	Sequence 480, App	678	26	59.1	354	11	US-11-188-298-619	Sequence 619, App

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726	26	59.1	415	11	US-11-188-298-4468	Sequence 4468, Ap	799	26	59.1	426	11	US-11-188-298-9419	Sequence 9419, Ap
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838	26	59.1	427	11	US-11-188-298-17182	Sequence 17182, A	911	26	59.1	446	11	US-11-188-298-11825	Sequence 11825, A
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860	26	59.1	431	11	US-11-188-298-14755	Sequence 14755, A	933	26	59.1	448	11	US-11-188-298-22405	Sequence 22405, A
861	26	59.1	432	11	US-11-079-463-7377	Sequence 7377, Ap	934	26	59.1	449	11	US-11-188-298-569	Sequence 569, App
862	26	59.1	433	11	US-11-188-298-2482	Sequence 2482, Ap	935	26	59.1	449	11	US-11-188-298-4723	Sequence 4723, Ap
863	26	59.1	433	11	US-11-188-298-13518	Sequence 13518, A	936	26	59.1	449	11	US-11-188-298-6656	Sequence 6656, Ap
864	26	59.1	435	11	US-11-096-568A-33253	Sequence 33253, A	937	26	59.1	449	11	US-11-188-298-10932	Sequence 10932, A
865	26	59.1	435	11	US-11-188-298-3626	Sequence 3626, Ap	938	26	59.1	449	11	US-11-188-298-11729	Sequence 11729, A
866	26	59.1	435	11	US-11-188-298-3790	Sequence 3790, Ap	939	26	59.1	450	11	US-11-188-298-4619	Sequence 4619, Ap
867	26	59.1	435	11	US-11-188-298-4477	Sequence 4477, Ap	940	26	59.1	450	11	US-11-188-298-7967	Sequence 7967, Ap
868	26	59.1	435	11	US-11-188-298-10412	Sequence 10412, A	941	26	59.1	450	11	US-11-188-298-18624	Sequence 18624, A
869	26	59.1	435	11	US-11-188-298-12541	Sequence 12541, A	942	26	59.1	451	11	US-11-188-298-11833	Sequence 11833, A
870	26	59.1	435	11	US-11-188-298-18454	Sequence 18454, A	943	26	59.1	451	11	US-11-188-298-15804	Sequence 15804, A
871	26	59.1	435	11	US-11-188-298-19839	Sequence 19839, A	944	26	59.1	451	11	US-11-188-298-16861	Sequence 16861, A
872	26	59.1	435	11	US-11-188-298-20644	Sequence 20644, A	945	26	59.1	451	11	US-11-188-298-19158	Sequence 19158, A
873	26	59.1	438	11	US-11-188-298-3390	Sequence 3390, Ap	946	26	59.1	452	11	US-11-188-298-20748	Sequence 20748, A
874	26	59.1	438	11	US-11-188-298-4668	Sequence 4668, Ap	947	26	59.1	452	11	US-11-188-298-1907	Sequence 1907, Ap
875	26	59.1	439	11	US-11-188-298-3183	Sequence 3183, Ap	948	26	59.1	452	11	US-11-188-298-3888	Sequence 3888, Ap
876	26	59.1	439	11	US-11-188-298-4613	Sequence 4613, Ap	949	26	59.1	452	11	US-11-188-298-4582	Sequence 4582, Ap
877	26	59.1	439	11	US-11-188-298-18550	Sequence 18550, A	950	26	59.1	452	11	US-11-188-298-6622	Sequence 6622, Ap
878	26	59.1	440	11	US-11-096-568A-12880	Sequence 12880, A	951	26	59.1	452	11	US-11-188-298-10638	Sequence 10638, A
879	26	59.1	440	11	US-11-188-298-12968	Sequence 12968, A	952	26	59.1	452	11	US-11-188-298-11758	Sequence 11758, A
880	26	59.1	440	11	US-11-188-298-19952	Sequence 19952, A	953	26	59.1	452	11	US-11-188-298-12603	Sequence 12603, A
881	26	59.1	440	11	US-11-188-298-20931	Sequence 20931, A	954	26	59.1	452	11	US-11-188-298-20679	Sequence 20679, A
882	26	59.1	441	11	US-11-188-298-553	Sequence 553, App	955	26	59.1	453	11	US-11-188-298-1061	Sequence 1061, Ap
883	26	59.1	441	11	US-11-188-298-1827	Sequence 1827, Ap	956	26	59.1	453	11	US-11-188-298-1892	Sequence 1892, Ap
884	26	59.1	441	11	US-11-188-298-2395	Sequence 2395, Ap	957	26	59.1	453	11	US-11-188-298-2822	Sequence 2822, Ap
885	26	59.1	441	11	US-11-188-298-8245	Sequence 8245, Ap	958	26	59.1	453	11	US-11-188-298-3947	Sequence 3947, Ap
886	26	59.1	441	11	US-11-188-298-11554	Sequence 11554, A	959	26	59.1	453	11	US-11-188-298-4607	Sequence 4607, Ap
887	26	59.1	441	11	US-11-188-298-13340	Sequence 13340, A	960	26	59.1	453	11	US-11-188-298-9981	Sequence 9981, Ap
888	26	59.1	441	11	US-11-188-298-14072	Sequence 14072, A	961	26	59.1	453	11	US-11-188-298-14557	Sequence 14557, A
889	26	59.1	441	11	US-11-188-298-17621	Sequence 17621, A	962	26	59.1	453	11	US-11-188-298-18227	Sequence 18227, A
890	26	59.1	441	11	US-11-188-298-17814	Sequence 17814, A	963	26	59.1	454	11	US-11-188-298-21923	Sequence 21923, A
891	26	59.1	441	11	US-11-188-298-21528	Sequence 21528, A	964	26	59.1	454	11	US-11-188-298-691	Sequence 691, App
892	26	59.1	442	11	US-11-188-298-21980	Sequence 21980, A	965	26	59.1	454	11	US-11-188-298-2303	Sequence 2303, Ap
893	26	59.1	442	11	US-11-096-568A-29362	Sequence 29362, A	966	26	59.1	454	11	US-11-188-298-2704	Sequence 2704, Ap
894	26	59.1	443	11	US-11-188-298-1232	Sequence 1232, Ap	967	26	59.1	454	11	US-11-188-298-4621	Sequence 4621, Ap
895	26	59.1	443	11	US-11-188-298-3410	Sequence 3410, Ap	968	26	59.1	454	11	US-11-188-298-5521	Sequence 5521, Ap
896	26	59.1	443	11	US-11-188-298-6806	Sequence 6806, Ap	969	26	59.1	454	11	US-11-188-298-6761	Sequence 6761, Ap
897	26	59.1	443	11	US-11-188-298-8430	Sequence 8430, Ap	970	26	59.1	454	11	US-11-188-298-6965	Sequence 6965, Ap


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971 26 59.1 454 11 US-11-188-298-8164 Sequence 8164, Ap
972 26 59.1 454 11 US-11-188-298-11081 Sequence 11081, A
973 26 59.1 454 11 US-11-188-298-11886 Sequence 11886, A
974 26 59.1 454 11 US-11-188-298-12692 Sequence 12692, A
975 26 59.1 454 11 US-11-188-298-13031 Sequence 13031, A
976 26 59.1 454 11 US-11-188-298-15135 Sequence 15135, A
977 26 59.1 454 11 US-11-188-298-16765 Sequence 16765, A
978 26 59.1 454 11 US-11-188-298-18501 Sequence 18501, A
979 26 59.1 454 11 US-11-188-298-20520 Sequence 20520, A
980 26 59.1 454 11 US-11-188-298-20766 Sequence 20766, A
981 26 59.1 454 11 US-11-188-298-20864 Sequence 20864, A
982 26 59.1 455 11 US-11-188-298-1540 Sequence 1540, Ap
983 26 59.1 455 11 US-11-188-298-5822 Sequence 5822, Ap
984 26 59.1 455 11 US-11-188-298-8753 Sequence 8753, Ap
985 26 59.1 455 11 US-11-188-298-9612 Sequence 9612, Ap
986 26 59.1 455 11 US-11-188-298-10068 Sequence 10068, A
987 26 59.1 455 11 US-11-188-298-12972 Sequence 12972, A
988 26 59.1 455 11 US-11-188-298-13079 Sequence 13079, A
989 26 59.1 455 11 US-11-188-298-13548 Sequence 13548, A
990 26 59.1 455 11 US-11-188-298-18390 Sequence 18390, A
991 26 59.1 455 11 US-11-188-298-18803 Sequence 18803, A
992 26 59.1 455 11 US-11-188-298-21946 Sequence 21946, A
993 26 59.1 456 11 US-11-096-568A-13449 Sequence 13449, A
994 26 59.1 456 11 US-11-188-298-793 Sequence 793, App
995 26 59.1 456 11 US-11-188-298-5064 Sequence 5064, Ap
996 26 59.1 456 11 US-11-188-298-8308 Sequence 8308, Ap
997 26 59.1 456 11 US-11-188-298-11242 Sequence 11242, A
998 26 59.1 456 11 US-11-188-298-12179 Sequence 12179, A
999 26 59.1 456 11 US-11-188-298-13603 Sequence 13603, A
1000 26 59.1 456 11 US-11-188-298-16609, A

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ALIGNMENTS

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RESULT 1
US-10-530-061-306
; Sequence 306, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.033US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 306
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-306

Query Match          100.0%; Score 44; DB 9; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.9e+05;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 1 TLQDIVLHL 9
Db 1 TLQDIVLHL 9

RESULT 2
US-10-530-061-1716
; Sequence 1716, Application US/10530061

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; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.033US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1716
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-1716

Query Match          100.0%; Score 44; DB 9; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.0083;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 1 TLQDIVLHL 9
Db 3 TLQDIVLHL 11

```

```

RESULT 3
US-10-530-253-27
; Sequence 27, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Cassetti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 27
; LENGTH: 105
; TYPE: PRT
; ORGANISM: Human papillomavirus type 18
US-10-530-253-27

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```

Query Match          100.0%; Score 44; DB 9; Length 105;
Best Local Similarity 100.0%; Pred. No. 0.072;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 1 TLQDIVLHL 9
Db 7 TLQDIVLHL 15

RESULT 4
US-10-530-061-1728
; Sequence 1728, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT

```



```
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.033US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1728
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Human papillomavirus
; US-10-530-061-1728
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Query Match          90.9%; Score 40; DB 9; Length 15;
Best Local Similarity 88.9%; Pred. No. 0.053;
Matches 8; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
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QY      1 TLQDIVLHL 9
        |||:||||
Db       3 TLQDIVLHL 11
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RESULT 5
US-10-530-253-32
; Sequence 32, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Casaretti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McBhiney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M17-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 32
; LENGTH: 106
; TYPE: PRT
; ORGANISM: Human papillomavirus type 45
; US-10-530-253-32
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Query Match          90.9%; Score 40; DB 9; Length 106;
Best Local Similarity 88.9%; Pred. No. 0.46;
Matches 8; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
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QY      1 TLQDIVLHL 9
        |||:||||
Db       7 TLQDIVLHL 15
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RESULT 6
US-10-647-956A-2
; Sequence 2, Application US/10647956A
; Publication No. US20050251878A1
; GENERAL INFORMATION:
; APPLICANT: ffrench-Constant, Richard
; APPLICANT: Bowen, David
; APPLICANT: Rocheleau, Thomas
; APPLICANT: Waterfield, Nicholas
; TITLE OF INVENTION: DNA SEQUENCES FROM PHOTORHABDUS LUMINESCENS
; FILE REFERENCE: 61645
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; CURRENT APPLICATION NUMBER: US/10/647,956A
; CURRENT FILING DATE: 2003-08-26
; PRIOR APPLICATION NUMBER: CURRENT APPLICATION NUMBER: US/09/817,514
; PRIOR FILING DATE: CURRENT FILING DATE: 2000-03-26
; PRIOR APPLICATION NUMBER: US 60/191806
; PRIOR FILING DATE: 2000-03-24
; NUMBER OF SEQ ID NOS: 8
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 2
; LENGTH: 2516
; TYPE: PRT
; ORGANISM: Photorhabdus luminescens
; US-10-647-956A-2
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Query Match          81.8%; Score 36; DB 9; Length 2516;
Best Local Similarity 66.7%; Pred. No. 96;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;
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QY      1 TLQDIVLHL 9
        |||:||||
Db       2503 TLQDIVLHL 2511
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RESULT 7
US-10-530-061-669
; Sequence 669, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.033US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 669
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Human papillomavirus
; US-10-530-061-669
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Query Match          79.5%; Score 35; DB 9; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.9e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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```
QY      2 LQDIVLH 8
        |||:||||
Db       3 LQDIVLH 9
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RESULT 8
US-10-530-061-1735
; Sequence 1735, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.033US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
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; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1735
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-1735

Query Match          79.5%; Score 35; DB 9; Length 15;
Best Local Similarity 77.8%; Pred. No. 0.53;
Matches 7; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 TLQDVLHL 9
Db 3 TLQDVVLEL 11

RESULT 9
US-10-530-253-35
; Sequence 35, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Cassecci, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 35
; LENGTH: 105
; TYPE: PRT
; ORGANISM: Human papillomavirus type 56
US-10-530-253-35

Query Match          79.5%; Score 35; DB 9; Length 105;
Best Local Similarity 77.8%; Pred. No. 4.6;
Matches 7; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 TLQDVLHL 9
Db 7 TLQDVVLEL 15

RESULT 10
US-11-087-099-8504
; Sequence 8504, Application US/11087099
; Publication No. US20060041961A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: Genes and Uses for Plant Improvement
; FILE REFERENCE: 38-21(53450)B EP
; CURRENT APPLICATION NUMBER: US/11/087,099
; CURRENT FILING DATE: 2005-03-22
; NUMBER OF SEQ ID NOS: 12464
; SEQ ID NO 8504
; LENGTH: 300
; TYPE: PRT
; ORGANISM: Mesembryanthemum crystallinum
US-11-087-099-8504

Query Match          79.5%; Score 35; DB 11; Length 300;
Best Local Similarity 55.6%; Pred. No. 15;

Matches 5; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY 1 TLQDVLHL 9
Db 282 TLQDVVHL 290

RESULT 11
US-10-530-253-33
; Sequence 33, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Cassecci, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 33
; LENGTH: 101
; TYPE: PRT
; ORGANISM: Human papillomavirus type 51
US-10-530-253-33

Query Match          77.3%; Score 34; DB 9; Length 101;
Best Local Similarity 75.0%; Pred. No. 7;
Matches 6; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 2 LQDVLHL 9
Db 8 LQDVVHL 15

RESULT 12
US-10-647-956A-8
; Sequence 8, Application US/10647956A
; Publication No. US20050251878A1
; GENERAL INFORMATION:
; APPLICANT: French-Constant, Richard
; APPLICANT: Bowen, David
; APPLICANT: Rochelleau, Thomas
; APPLICANT: Waterfield, Nicholas
; TITLE OF INVENTION: DNA SEQUENCES FROM PHOTORHABDUS LUMINESCENS
; FILE REFERENCE: 61645
; CURRENT APPLICATION NUMBER: US/10/647,956A
; CURRENT FILING DATE: 2003-08-26
; PRIOR APPLICATION NUMBER: CURRENT APPLICATION NUMBER: US/09/817,514
; PRIOR FILING DATE: CURRENT FILING DATE: 2000-03-26
; PRIOR APPLICATION NUMBER: US 60/191806
; PRIOR FILING DATE: 2000-03-24
; NUMBER OF SEQ ID NOS: 8
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 8
; LENGTH: 2504
; TYPE: PRT
; ORGANISM: Photorhabdus luminescens
US-10-647-956A-8

Query Match          77.3%; Score 34; DB 9; Length 2504;
Best Local Similarity 55.6%; Pred. No. 2.4e+02;
Matches 5; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 1 TLQDVLHL 9
Db 2491 TMSDILHL 2499
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RESULT 13
US-11-087-099-6536
; Sequence 6536, Application US/11087099
; Publication No. US20060041961A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: Genes and Uses for Plant Improvement
; FILE REFERENCE: 38-21(53450)B EP
; CURRENT APPLICATION NUMBER: US/11/087,099
; CURRENT FILING DATE: 2005-03-22
; NUMBER OF SEQ ID NOS: 12464
; SEQ ID NO 6536
; LENGTH: 189
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)..(189)
; OTHER INFORMATION: unsure at all Xaa locations
US-11-087-099-6536

Query Match          75.0%; Score 33; DB 11; Length 189;
Best Local Similarity 66.7%; Pred. No. 22;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 TLQDIVLH 9
Db 41 TLQDLKLHL 49

RESULT 14
US-10-530-061-670
; Sequence 670, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.033US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 670
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-670

Query Match          72.7%; Score 32; DB 9; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.9e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TLQDIVLH 7
Db 2 TLQDIVLH 8

RESULT 15
US-11-072-512-3860
; Sequence 3860, Application US/11072512
; Publication No. US20060029945A1
; GENERAL INFORMATION:
; APPLICANT: ISOGAI, TAKAO
```

```
APPLICANT: SUGIYAMA, TOMOYASU
APPLICANT: OTSUKI, TETSUJI
APPLICANT: WAKAMATSU, AI
APPLICANT: SATO, HIROYUKI
APPLICANT: ISHII, SHIZUKO
APPLICANT: YAMAMOTO, JUN-ICHI
APPLICANT: ISONO, YUUKO
APPLICANT: HIO, YURI
APPLICANT: OTSUKA, KAORU
APPLICANT: MAGAI, KEIICHI
APPLICANT: IRIE, RYOTARO
APPLICANT: TAMECHIKA, ICHIRO
APPLICANT: SEKI, NAOHICO
APPLICANT: YOSHIKAWA, TSUTOMU
APPLICANT: OTSUKA, MOTOMYUKI
APPLICANT: MAGAHARI, KENJI
APPLICANT: MASUHO, YASUHIKO
; TITLE OF INVENTION: Novel full length cDNA
; FILE REFERENCE: 084335-0191
; CURRENT APPLICATION NUMBER: US/11/072,512
; CURRENT FILING DATE: 2005-03-07
; PRIOR APPLICATION NUMBER: US 60/350,978
; PRIOR FILING DATE: 2002-01-25
; PRIOR APPLICATION NUMBER: JP 2001-379298
; PRIOR FILING DATE: 2001-11-05
; NUMBER OF SEQ ID NOS: 4096
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 3860
; LENGTH: 502
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-072-512-3860

Query Match          72.7%; Score 32; DB 11; Length 502;
Best Local Similarity 55.6%; Pred. No. 1e+02;
Matches 5; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 1 TLQDIVLH 9
Db 168 TLQDIVLH 176

RESULT 16
US-10-467-657-6200
; Sequence 6200, Application US/10467657
; Publication No. US20050260581A1
; GENERAL INFORMATION:
; APPLICANT: CHIRON SPA
; APPLICANT: FONTANA Maria Rita
; APPLICANT: PIZZA Mariagrazia
; APPLICANT: MASIGNANI Vega
; APPLICANT: MONACT Elisabetta
; TITLE OF INVENTION: GONOCOCCAL PROTEINS AND NUCLEIC ACIDS
; FILE REFERENCE:
; CURRENT APPLICATION NUMBER: US/10/467,657
; CURRENT FILING DATE: 2003-08-11
; PRIOR APPLICATION NUMBER: GB-0103424.8
; PRIOR FILING DATE: 2001-02-12
; NUMBER OF SEQ ID NOS: 9218
; SOFTWARE: SeqWIn9, version 1.04
; SEQ ID NO 6200
; LENGTH: 716
; TYPE: PRT
; ORGANISM: Neisseria gonorrhoeae
US-10-467-657-6200

Query Match          72.7%; Score 32; DB 9; Length 716;
Best Local Similarity 62.5%; Pred. No. 1.5e+02;
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 2 LQDIVLH 9
Db 568 MDQVLAHL 575
```

RESULT 17
US-10-467-657-1936
; Sequence 1936, Application US/10467657
; Publication No. US20050260581A1
; GENERAL INFORMATION:
; APPLICANT: CHIRON SPA
; APPLICANT: FONTANA Maria Rita
; APPLICANT: PIZZA Mariagrazia
; APPLICANT: MASIGNANI Vega
; APPLICANT: MONACI Elisabetta
; TITLE OF INVENTION: GONOCOCCAL PROTEINS AND NUCLEIC ACIDS
; FILE REFERENCE:
; CURRENT APPLICATION NUMBER: US/10/467,657
; CURRENT FILING DATE: 2003-08-11
; PRIOR APPLICATION NUMBER: GB-0103424.8
; PRIOR FILING DATE: 2001-02-12
; NUMBER OF SEQ ID NOS: 9218
; SOFTWARE: SeqWin99, version 1.04
; SEQ ID NO 1936
; LENGTH: 744
; TYPE: PRT
; ORGANISM: Neisseria gonorrhoeae
US-10-467-657-1936

Query Match 72.7%; Score 32; DB 9; Length 744;
Best Local Similarity 62.5%; Pred. No. 1.6e+02;
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 2 TLQDIVLHL 9
|:|:|:|:|
DB 596 MODVALHL 603

RESULT 18
US-10-519-122-76
; Sequence 76, Application US/10519122
; Publication No. US20060058252A1
; GENERAL INFORMATION:
; APPLICANT: Clawson, Gary A.
; APPLICANT: Pan, Wei-Hua
; APPLICANT: Thiboutot, Diane
; APPLICANT: Christensen, Neil
; TITLE OF INVENTION: METHODS AND MATERIALS FOR TREATING HUMAN
; FILE REFERENCE: PAPILLOMAVIRUS INFECTIONS
; CURRENT APPLICATION NUMBER: US/10/519,122
; CURRENT FILING DATE: 2004-12-22
; PRIOR APPLICATION NUMBER: PCT/US03/20340
; PRIOR FILING DATE: 2003-06-26
; PRIOR APPLICATION NUMBER: US 60/449,066
; PRIOR FILING DATE: 2003-02-21
; PRIOR APPLICATION NUMBER: US 60/417,997
; PRIOR FILING DATE: 2002-10-14
; PRIOR APPLICATION NUMBER: US 60/391,795
; PRIOR FILING DATE: 2002-06-26
; NUMBER OF SEQ ID NOS: 84
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 76
; LENGTH: 17
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: synthetically generated polypeptide
US-10-519-122-76

Query Match 70.5%; Score 31; DB 9; Length 17;
Best Local Similarity 77.8%; Pred. No. 3.9;
Matches 7; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 TLQDIVLHL 9
|:|:|:|:|

DB 6 TLQDIVLHL 14

RESULT 19
US-10-530-253-31
; Sequence 31, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Casaretti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 31
; LENGTH: 109
; TYPE: PRT
; ORGANISM: Human papillomavirus type 39
US-10-530-253-31

Query Match 70.5%; Score 31; DB 9; Length 109;
Best Local Similarity 77.8%; Pred. No. 30;
Matches 7; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 TLQDIVLHL 9
|:|:|:|:|
DB 7 TLQDIVLHL 15

RESULT 20
US-11-188-298-1495
; Sequence 1495, Application US/11188298
; Publication No. US20060075522A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
; FILE REFERENCE: 38-21(53452)B
; CURRENT APPLICATION NUMBER: US/11/188,298
; CURRENT FILING DATE: 2005-07-22
; PRIOR APPLICATION NUMBER: 60/592,978
; PRIOR FILING DATE: 2004-07-31
; NUMBER OF SEQ ID NOS: 22569
; SEQ ID NO 1495
; LENGTH: 140
; TYPE: PRT
; ORGANISM: Picea mariana
US-11-188-298-1495

Query Match 70.5%; Score 31; DB 11; Length 140;
Best Local Similarity 55.6%; Pred. No. 40;
Matches 5; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 1 TLQDIVLHL 9
|:|:|:|:|
DB 111 TMDIVLHL 119

RESULT 21
US-11-087-099-9129
; Sequence 9129, Application US/11087099
; Publication No. US20060041961A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: Genes and Uses for Plant Improvement
; FILE REFERENCE: 38-21(53450)B EP

```

; CURRENT APPLICATION NUMBER: US/11/087,099
; CURRENT FILING DATE: 2005-03-22
; NUMBER OF SEQ ID NOS: 12464
; SEQ ID NO 9129
; LENGTH: 150
; TYPE: PRT
; ORGANISM: Zea mays
US-11-087-099-9129

```

```

Query Match
Best Local Similarity 70.5%; Score 31; DB 11; Length 150;
Pred. No. 43;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

```

```

QY 1 TLDDIVLHL 9
Db 41 TLDDIKMHL 49

```

```

RESULT 22
US-11-087-099-6056
; Sequence 6056, Application US/11087099
; Publication No. US20060041961A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: Genes and Uses for Plant Improvement
; FILE REFERENCE: 38-21(53450)B EP
; CURRENT APPLICATION NUMBER: US/11/087,099
; CURRENT FILING DATE: 2005-03-22
; NUMBER OF SEQ ID NOS: 12464
; SEQ ID NO 6056
; LENGTH: 160
; TYPE: PRT
; ORGANISM: Zea mays
US-11-087-099-6056

```

```

Query Match
Best Local Similarity 70.5%; Score 31; DB 11; Length 160;
Pred. No. 46;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

```

```

QY 1 TLDDIVLHL 9
Db 43 TLDDIKMHL 51

```

```

RESULT 23
US-11-087-099-1773
; Sequence 1773, Application US/11087099
; Publication No. US20060041961A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: Genes and Uses for Plant Improvement
; FILE REFERENCE: 38-21(53450)B EP
; CURRENT APPLICATION NUMBER: US/11/087,099
; CURRENT FILING DATE: 2005-03-22
; NUMBER OF SEQ ID NOS: 12464
; SEQ ID NO 1773
; LENGTH: 181
; TYPE: PRT
; ORGANISM: Triticum aestivum
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)..(181)
; OTHER INFORMATION: unsure at all Xaa locations
US-11-087-099-1773

```

```

Query Match
Best Local Similarity 70.5%; Score 31; DB 11; Length 181;
Pred. No. 53;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

```

```

QY 1 TLDDIVLHL 9
Db 41 TLDDIKMHL 49

```

```

RESULT 24
US-11-087-099-601
; Sequence 601, Application US/11087099
; Publication No. US20060041961A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: Genes and Uses for Plant Improvement
; FILE REFERENCE: 38-21(53450)B EP
; CURRENT APPLICATION NUMBER: US/11/087,099
; CURRENT FILING DATE: 2005-03-22
; NUMBER OF SEQ ID NOS: 12464
; SEQ ID NO 601
; LENGTH: 206
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)..(206)
; OTHER INFORMATION: unsure at all Xaa locations
US-11-087-099-601

```

```

Query Match
Best Local Similarity 70.5%; Score 31; DB 11; Length 206;
Pred. No. 61;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

```

```

QY 1 TLDDIVLHL 9
Db 41 TLDDIKMHL 49

```

```

RESULT 25
US-11-087-099-12209
; Sequence 12209, Application US/11087099
; Publication No. US20060041961A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: Genes and Uses for Plant Improvement
; FILE REFERENCE: 38-21(53450)B EP
; CURRENT APPLICATION NUMBER: US/11/087,099
; CURRENT FILING DATE: 2005-03-22
; NUMBER OF SEQ ID NOS: 12464
; SEQ ID NO 12209
; LENGTH: 255
; TYPE: PRT
; ORGANISM: Triticum aestivum
US-11-087-099-12209

```

```

Query Match
Best Local Similarity 70.5%; Score 31; DB 11; Length 255;
Pred. No. 77;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

```

```

QY 1 TLDDIVLHL 9
Db 41 TLDDIKMHL 49

```

```

RESULT 26
US-11-087-099-889
; Sequence 889, Application US/11087099
; Publication No. US20060041961A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: Genes and Uses for Plant Improvement
; FILE REFERENCE: 38-21(53450)B EP
; CURRENT APPLICATION NUMBER: US/11/087,099
; CURRENT FILING DATE: 2005-03-22
; NUMBER OF SEQ ID NOS: 12464
; SEQ ID NO 889
; LENGTH: 351
; TYPE: PRT
; ORGANISM: Zea mays
US-11-087-099-889

```

Query Match 70.5%; Score 31; DB 11; Length 351;
Best Local Similarity 66.7%; Pred. No. 1.1e+02;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 TLQDIIVLHL 9
DB 41 TLDDIKMHL 49

RESULT 27
US-11-087-099-1980
Sequence 1980, Application US/11087099
Publication No. US20060041961A1
GENERAL INFORMATION:

APPLICANT: Abad, Mark S. et al.
TITLE OF INVENTION: Genes and Uses for Plant Improvement
FILE REFERENCE: 38-21(53450)B EP
CURRENT APPLICATION NUMBER: US/11/087,099
CURRENT FILING DATE: 2005-03-22
NUMBER OF SEQ ID NOS: 12464
SEQ ID NO 1980
LENGTH: 351
TYPE: PRT
ORGANISM: Glycine max

US-11-087-099-1980

Query Match 70.5%; Score 31; DB 11; Length 351;
Best Local Similarity 66.7%; Pred. No. 1.1e+02;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 TLQDIIVLHL 9
DB 41 TLDDIKMHL 49

RESULT 28

US-11-087-099-2431
Sequence 2431, Application US/11087099
Publication No. US20060041961A1
GENERAL INFORMATION:

APPLICANT: Abad, Mark S. et al.
TITLE OF INVENTION: Genes and Uses for Plant Improvement
FILE REFERENCE: 38-21(53450)B EP
CURRENT APPLICATION NUMBER: US/11/087,099
CURRENT FILING DATE: 2005-03-22
NUMBER OF SEQ ID NOS: 12464
SEQ ID NO 2431
LENGTH: 351
TYPE: PRT
ORGANISM: Zea mays

US-11-087-099-2431

Query Match 70.5%; Score 31; DB 11; Length 351;
Best Local Similarity 66.7%; Pred. No. 1.1e+02;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 TLQDIIVLHL 9
DB 41 TLDDIKMHL 49

RESULT 29
US-11-087-099-4787
Sequence 4787, Application US/11087099
Publication No. US20060041961A1
GENERAL INFORMATION:

APPLICANT: Abad, Mark S. et al.
TITLE OF INVENTION: Genes and Uses for Plant Improvement
FILE REFERENCE: 38-21(53450)B EP
CURRENT APPLICATION NUMBER: US/11/087,099
CURRENT FILING DATE: 2005-03-22
NUMBER OF SEQ ID NOS: 12464

SEQ ID NO 4787
LENGTH: 351
TYPE: PRT
ORGANISM: Trifolium aestivum
US-11-087-099-4787

Query Match 70.5%; Score 31; DB 11; Length 351;
Best Local Similarity 66.7%; Pred. No. 1.1e+02;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 TLQDIIVLHL 9
DB 41 TLDDIKMHL 49

RESULT 30

US-11-087-099-8284
Sequence 8284, Application US/11087099
Publication No. US20060041961A1
GENERAL INFORMATION:

APPLICANT: Abad, Mark S. et al.
TITLE OF INVENTION: Genes and Uses for Plant Improvement
FILE REFERENCE: 38-21(53450)B EP
CURRENT APPLICATION NUMBER: US/11/087,099
CURRENT FILING DATE: 2005-03-22
NUMBER OF SEQ ID NOS: 12464
SEQ ID NO 8284
LENGTH: 351
TYPE: PRT
ORGANISM: Zea mays

FEATURE:
NAME/KEY: unsure
LOCATION: (1)-(351)

OTHER INFORMATION: unsure at all Xaa locations
US-11-087-099-8284

Query Match 70.5%; Score 31; DB 11; Length 351;
Best Local Similarity 66.7%; Pred. No. 1.1e+02;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 TLQDIIVLHL 9
DB 41 TLDDIKMHL 49

RESULT 31

US-11-087-099-9990
Sequence 9990, Application US/11087099
Publication No. US20060041961A1
GENERAL INFORMATION:

APPLICANT: Abad, Mark S. et al.
TITLE OF INVENTION: Genes and Uses for Plant Improvement
FILE REFERENCE: 38-21(53450)B EP
CURRENT APPLICATION NUMBER: US/11/087,099
CURRENT FILING DATE: 2005-03-22
NUMBER OF SEQ ID NOS: 12464
SEQ ID NO 9990
LENGTH: 351
TYPE: PRT
ORGANISM: Zea mays

US-11-087-099-9990

Query Match 70.5%; Score 31; DB 11; Length 351;
Best Local Similarity 66.7%; Pred. No. 1.1e+02;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 TLQDIIVLHL 9
DB 41 TLDDIKMHL 49

RESULT 32
US-11-087-099-10862

```

; Sequence 10862, Application US/11087099
; Publication No. US20060041961A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: Genes and Uses for Plant Improvement
; FILE REFERENCE: 38-21(53450)B EP
; CURRENT APPLICATION NUMBER: US/11/087,099
; CURRENT FILING DATE: 2005-03-22
; NUMBER OF SEQ ID NOS: 12464
; SEQ ID NO 10862
; LENGTH: 351
; TYPE: PRT
; ORGANISM: Glycine max
US-11-087-099-10862

```

```

Query Match      70.5%; Score 31; DB 11; Length 351;
Best Local Similarity 66.7%; Pred. No. 1.1e+02;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

```

```

QY      1 TLDDIVLHL 9
         |||||:
Db      41 TLDDIKMHL 49

```

```

RESULT 33
US-11-087-099-11039
; Sequence 11039, Application US/11087099
; Publication No. US20060041961A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: Genes and Uses for Plant Improvement
; FILE REFERENCE: 38-21(53450)B EP
; CURRENT APPLICATION NUMBER: US/11/087,099
; CURRENT FILING DATE: 2005-03-22
; NUMBER OF SEQ ID NOS: 12464
; SEQ ID NO 11039
; LENGTH: 351
; TYPE: PRT
; ORGANISM: Triticum aestivum
US-11-087-099-11039

```

```

Query Match      70.5%; Score 31; DB 11; Length 351;
Best Local Similarity 66.7%; Pred. No. 1.1e+02;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

```

```

QY      1 TLDDIVLHL 9
         |||||:
Db      41 TLDDIKMHL 49

```

```

RESULT 34
US-11-087-099-5419
; Sequence 5419, Application US/11087099
; Publication No. US20060041961A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: Genes and Uses for Plant Improvement
; FILE REFERENCE: 38-21(53450)B EP
; CURRENT APPLICATION NUMBER: US/11/087,099
; CURRENT FILING DATE: 2005-03-22
; NUMBER OF SEQ ID NOS: 12464
; SEQ ID NO 5419
; LENGTH: 353
; TYPE: PRT
; ORGANISM: Mesembryanthemum crystallinum
US-11-087-099-5419

```

```

Query Match      70.5%; Score 31; DB 11; Length 353;
Best Local Similarity 66.7%; Pred. No. 1.1e+02;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

```

```

QY      1 TLDDIVLHL 9
         |||||:

```

```

Db      41 TLDDIKMHL 49

```

```

RESULT 35
US-11-087-099-2883
; Sequence 2883, Application US/11087099
; Publication No. US20060041961A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: Genes and Uses for Plant Improvement
; FILE REFERENCE: 38-21(53450)B EP
; CURRENT APPLICATION NUMBER: US/11/087,099
; CURRENT FILING DATE: 2005-03-22
; NUMBER OF SEQ ID NOS: 12464
; SEQ ID NO 2883
; LENGTH: 369
; TYPE: PRT
; ORGANISM: Zea mays
US-11-087-099-2883

```

```

Query Match      70.5%; Score 31; DB 11; Length 369;
Best Local Similarity 66.7%; Pred. No. 1.2e+02;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

```

```

QY      1 TLDDIVLHL 9
         |||||:
Db      41 TLDDIKMHL 49

```

```

RESULT 36
US-11-087-099-10337
; Sequence 10337, Application US/11087099
; Publication No. US20060041961A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: Genes and Uses for Plant Improvement
; FILE REFERENCE: 38-21(53450)B EP
; CURRENT APPLICATION NUMBER: US/11/087,099
; CURRENT FILING DATE: 2005-03-22
; NUMBER OF SEQ ID NOS: 12464
; SEQ ID NO 10337
; LENGTH: 520
; TYPE: PRT
; ORGANISM: Ferroplasma acidimanus
US-11-087-099-10337

```

```

Query Match      70.5%; Score 31; DB 11; Length 520;
Best Local Similarity 62.5%; Pred. No. 1.7e+02;
Matches 5; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

```

```

QY      2 LODIVLHL 9
         ::|||:
Db      438 IRDIVLHM 445

```

```

RESULT 37
US-11-079-463-9518
; Sequence 9518, Application US/11079463
; Publication No. US20060073161A1
; GENERAL INFORMATION:
; APPLICANT: Gary L. Breton
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO BACTERIOIDES FRAM
; FILE REFERENCE: PATH00-03DIV2
; CURRENT APPLICATION NUMBER: US/11/079,463
; CURRENT FILING DATE: 2005-03-14
; PRIOR APPLICATION NUMBER: US 60/128,705
; PRIOR FILING DATE: 1999-04-09
; PRIOR APPLICATION NUMBER: US 09/540,209
; PRIOR FILING DATE: 2000-04-04
; NUMBER OF SEQ ID NOS: 10444
; SEQ ID NO 9518
; LENGTH: 548

```

TYPE: PRT
ORGANISM: B.fragilis
US-11-079-463-9518

Query Match 70.5%; Score 31; DB 11; Length 548;
Best Local Similarity 66.7%; Pred. No. 1.8e+02;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TLQDVLHL 9
Db 60 TLNDVLDL 68

RESULT 38
US-10-530-061-1736
Sequence 1736, Application US/10530061
Publication No. US20060079453A1
GENERAL INFORMATION:
APPLICANT: SIDNEY, JOHN
APPLICANT: SOUTHWOOD, SCOTT
APPLICANT: SETTE, ALESSANDRO
TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
FILE REFERENCE: 2060.033US02/EKS/W-M
CURRENT APPLICATION NUMBER: US/10/530,061
CURRENT FILING DATE: 2005-04-04
PRIOR APPLICATION NUMBER: PCT/US03/31308
PRIOR FILING DATE: 2003-10-03
PRIOR APPLICATION NUMBER: 60/416,207
PRIOR FILING DATE: 2002-10-03
PRIOR APPLICATION NUMBER: 60/417,269
PRIOR FILING DATE: 2002-10-08
NUMBER OF SEQ ID NOS: 2503
SOFTWARE: PatentIn version 3.3
SEQ ID NO 1736
LENGTH: 15
TYPE: PRT
ORGANISM: Human papillomavirus
US-10-530-061-1736

Query Match 68.2%; Score 30; DB 9; Length 15;
Best Local Similarity 75.0%; Pred. No. 5.4;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 2 LQDVLHL 9
Db 1 LQDVLHL 8

RESULT 39
US-10-530-253-28
Sequence 28, Application US/10530253
Publication No. US20060014926A1
GENERAL INFORMATION:
APPLICANT: Casasetti, Maria C.
APPLICANT: Smith, Larry
APPLICANT: Jeffrey K. Pullen
APPLICANT: Susan P. McElhinney
TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
FILE REFERENCE: 00630/100M137-US2
CURRENT APPLICATION NUMBER: US/10/530,253
CURRENT FILING DATE: 2005-04-04
PRIOR APPLICATION NUMBER: PCT/US2003/031726
PRIOR FILING DATE: 2003-10-02
PRIOR APPLICATION NUMBER: US 60/415,929
PRIOR FILING DATE: 2002-10-03
NUMBER OF SEQ ID NOS: 65
SOFTWARE: PatentIn version 3.1
SEQ ID NO 28
LENGTH: 98
TYPE: PRT
ORGANISM: Human papillomavirus type 31
US-10-530-253-28

Query Match 68.2%; Score 30; DB 9; Length 98;
Best Local Similarity 77.8%; Pred. No. 43;
Matches 7; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 TLQDVLHL 9
Db 7 TLQDVLHL 15

RESULT 40
US-10-530-253-30
Sequence 30, Application US/10530253
Publication No. US20060014926A1
GENERAL INFORMATION:
APPLICANT: Casasetti, Maria C.
APPLICANT: Smith, Larry
APPLICANT: Jeffrey K. Pullen
APPLICANT: Susan P. McElhinney
TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
FILE REFERENCE: 00630/100M137-US2
CURRENT APPLICATION NUMBER: US/10/530,253
CURRENT FILING DATE: 2005-04-04
PRIOR APPLICATION NUMBER: PCT/US2003/031726
PRIOR FILING DATE: 2003-10-02
PRIOR APPLICATION NUMBER: US 60/415,929
PRIOR FILING DATE: 2002-10-03
NUMBER OF SEQ ID NOS: 65
SOFTWARE: PatentIn version 3.1
SEQ ID NO 30
LENGTH: 99
TYPE: PRT
ORGANISM: Human papillomavirus type 35
US-10-530-253-30

Query Match 68.2%; Score 30; DB 9; Length 99;
Best Local Similarity 77.8%; Pred. No. 43;
Matches 7; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 TLQDVLHL 9
Db 7 TLQDVLHL 15

RESULT 41
US-11-045-004-954
Sequence 954, Application US/11045004
Publication No. US20060078901A1
GENERAL INFORMATION:
APPLICANT: BUCHRIEGER, CARMEN
APPLICANT: FRANGEUL, LIONEL
APPLICANT: COUVE, ELISABETH
APPLICANT: RUSNIOK, CHRISTOPHE
APPLICANT: PSHTI, HAFIDA
APPLICANT: DEHOIX, PIERRE
APPLICANT: DUSSENGET, OLIVIER
APPLICANT: CHETOUANI, FARID
APPLICANT: NEDJARI, HAFED
APPLICANT: GLASER, PHILIPPE
APPLICANT: KUNST, FRANCK
APPLICANT: COSSART, PASCALE
APPLICANT: DANIELS, JUSTIN
APPLICANT: GOEBEL, WERNER
APPLICANT: KREFT, JURGEN
APPLICANT: KUHN, MICHAEL
APPLICANT: NG, EVA
APPLICANT: VAZQUEZ-BOLAND, ANTONIO
APPLICANT: DOMINGUEZ-BERNAL, GUSTAVO
APPLICANT: GARIDO-GARCIA, PATRICIA
APPLICANT: TIERREZ-MARTINEZ, ALBERTO
APPLICANT: AMEND, ALEXANDRA
APPLICANT: CHAKRABORTY, TRINAD
APPLICANT: DOMANN, EUGEN
APPLICANT: HAIN, THORSTEN

APPLICANT: BERCHE, PATRICK
APPLICANT: CHARBIT, ALAIN
APPLICANT: DUBANT, LIONEL
APPLICANT: PEREZ-DIAZ, JOSE-CLAUDIO
APPLICANT: BAQUERO, FERNANDO
APPLICANT: GARCIA DEL PORTILLO, FRANCISCO
APPLICANT: GOMEZ-LOPEZ, NURIA
APPLICANT: MADUENIO, ENCARNIA
APPLICANT: PABLOS, BETRIZ DE
APPLICANT: WEHLAND, JURGEN
APPLICANT: KARST, UWE
APPLICANT: ENTIAN, KARL-DIETER
APPLICANT: HAUF, JORG
APPLICANT: ROSE, MATTHIAS
APPLICANT: VOSS, HAWUT
TITLE OF INVENTION: LISTERIA MONOCYTOGENES GENOME, POLYPEPTIDES AND USES
FILE REFERENCE: 05394.0018-02
CURRENT APPLICATION NUMBER: US/11/045.004
CURRENT FILING DATE: 2005-01-28
PRIOR APPLICATION NUMBER: 10/637,657
PRIOR FILING DATE: 2003-08-11
PRIOR APPLICATION NUMBER: 10/257,023
PRIOR FILING DATE: 2002-10-08
PRIOR APPLICATION NUMBER: PCT/FR01/01118
PRIOR FILING DATE: 2001-04-11
PRIOR APPLICATION NUMBER: FR 00/04,629
PRIOR FILING DATE: 2000-04-11
NUMBER OF SEQ ID NOS: 2854
SOFTWARE: PatentIn version 3.3
SEQ ID NO 954
LENGTH: 170
TYPE: PRT
ORGANISM: *Listeria monocytogenes*
US-11-045-004-954

Query Match 68.2%; Score 30; DB 11; Length 170;
Best Local Similarity 50.0%; Pred. No. 79;
Matches 4; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

Qy 2 LQDVLHL 9
Db 46 IRDVVHL 53

RESULT 42
US-11-172-740-2176
Sequence 2176, Application US/11172740
Publication No. US20060057724A1
GENERAL INFORMATION:
APPLICANT: MASCIA, Peter
APPLICANT: ALEXANDROV, Nickolai
APPLICANT: BROVER, Vyacheslav
TITLE OF INVENTION: NUCLEOTIDE SEQUENCES AND POLYPEPTIDES ENCODED THEREBY USEFUL FOR
FILE REFERENCE: 2750-1602PUS2
CURRENT APPLICATION NUMBER: US/11/172,740
CURRENT FILING DATE: 2005-06-30
PRIOR APPLICATION NUMBER: 60/583,621
PRIOR FILING DATE: 2004-06-30
PRIOR APPLICATION NUMBER: 60/584,829
PRIOR FILING DATE: 2004-06-30
PRIOR APPLICATION NUMBER: 60/584,800
PRIOR FILING DATE: 2004-06-30
NUMBER OF SEQ ID NOS: 2523
SEQ ID NO 2176
LENGTH: 206
TYPE: PRT
ORGANISM: *Zea mays*
FEATURE:
NAME/KEY: misc_feature
LOCATION: (1)..(206)
OTHER INFORMATION: Ceres CLONE ID no. 336092
FEATURE:

NAME/KEY: misc_feature
LOCATION:
OTHER INFORMATION: Utility: Useful for making plants sterile and for genetic confiner
US-11-172-740-2176

Query Match 68.2%; Score 30; DB 11; Length 206;
Best Local Similarity 62.5%; Pred. No. 97;
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TLQDVLHL 8
Db 146 TMBDVLH 153

RESULT 43
US-11-188-298-13065
Sequence 13065, Application US/11188298
Publication No. US20060075522A1
GENERAL INFORMATION:
APPLICANT: Abad, Mark S. et al.
TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
FILE REFERENCE: 38-21(53452)B
CURRENT APPLICATION NUMBER: US/11/188,298
CURRENT FILING DATE: 2005-07-22
PRIOR APPLICATION NUMBER: 60/592,978
PRIOR FILING DATE: 2004-07-31
NUMBER OF SEQ ID NOS: 22569
SEQ ID NO 13065
LENGTH: 270
TYPE: PRT
ORGANISM: *Zea mays*
FEATURE:
NAME/KEY: unsure
LOCATION: (1)..(270)
OTHER INFORMATION: unsure at all Xaa locations
US-11-188-298-13065

Query Match 68.2%; Score 30; DB 11; Length 270;
Best Local Similarity 55.6%; Pred. No. 1,3e+02;
Matches 5; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TLQDVLHL 9
Db 232 TLQEVQLHV 240

RESULT 44
US-11-045-004-1256
Sequence 1256, Application US/11045004
Publication No. US20060078901A1
GENERAL INFORMATION:
APPLICANT: BUCHRISE, CARMEN
APPLICANT: FRANGEUL, LIONEL
APPLICANT: COUVE, ELISABETH
APPLICANT: RUSNIOK, CHRISTOPHE
APPLICANT: FSIHI, HAFIDA
APPLICANT: DEHOUC, PIERRE
APPLICANT: DUSURGET, OLIVIER
APPLICANT: CHETOUANI, FARID
APPLICANT: NEDJARI, HAFED
APPLICANT: GLASER, PHILIPPE
APPLICANT: KUNST, FRANCK
APPLICANT: COSSART, PASCALE
APPLICANT: DANIELS, JUSTIN
APPLICANT: GOEBEL, WERNER
APPLICANT: KREFT, JURGEN
APPLICANT: KUHN, MICHAEL
APPLICANT: NG, EVA
APPLICANT: VAZQUEZ-BOLAND, ANTONIO
APPLICANT: DOMINGUEZ-BERNAL, GUSTAVO
APPLICANT: GARRIDO-GARCIA, PATRICIA
APPLICANT: TIERREZ-MARTINEZ, ALBERTO
APPLICANT: AMEND, ALEXANDRA

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; APPLICANT: CHAKRABORTY, TRINAD
; APPLICANT: DOMANN, EUGEN
; APPLICANT: HAIN, THORSTEN
; APPLICANT: BERCHE, PATRICK
; APPLICANT: CHARBIT, ALAIN
; APPLICANT: DURANT, LIONEL
; APPLICANT: PEREZ-DIAZ, JOSE-CLAUDIO
; APPLICANT: BAOQUERO, FERNANDO
; APPLICANT: GARCIA DEL PORTILLO, FRANCISCO
; APPLICANT: GOMEZ-LOPEZ, NORIA
; APPLICANT: MADUENIO, ENCARNIA
; APPLICANT: PABLOS, BETRIZ DE
; APPLICANT: WEHLAND, JURGEN
; APPLICANT: KARST, UWE
; APPLICANT: ENTIAN, KARL-DIETER
; APPLICANT: HAUF, JORG
; APPLICANT: ROSE, MATTHIAS
; APPLICANT: VOSS, HANUT
; TITLE OF INVENTION: LISTERIA MONOCYTOGENES GENOME, POLYPEPTIDES AND USES
; FILE REFERENCE: 05394.0018-02
; CURRENT APPLICATION NUMBER: US/11/045,004
; CURRENT FILING DATE: 2005-01-28
; PRIOR APPLICATION NUMBER: 10/637,657
; PRIOR FILING DATE: 2003-08-11
; PRIOR APPLICATION NUMBER: 10/257,023
; PRIOR FILING DATE: 2002-10-08
; PRIOR APPLICATION NUMBER: PCT/FR01/01118
; PRIOR FILING DATE: 2001-04-11
; PRIOR APPLICATION NUMBER: FR 00/04,629
; PRIOR FILING DATE: 2000-04-11
; NUMBER OF SEQ ID NOS: 2854
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1256
; LENGTH: 279
; TYPE: PRT
; ORGANISM: Listeria monocytogenes
US-11-045-004-1256

Query Match      68.2%; Score 30; DB 11; Length 279;
Best Local Similarity 55.6%; Pred. No. 1.4e+02;
Matches 5; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

OY      1 TLQDIYVHL 9
      |||::|||
Db      85 SLADVLHL 93

RESULT 45
US-11-096-568A-18021
; Sequence 18021, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
; APPLICANT: Alexandrov, Nickolai et al.
; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
; FILE REFERENCE: 2750-1592PUS2
; CURRENT APPLICATION NUMBER: US/11/096,568A
; CURRENT FILING DATE: 2005-04-01
; NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 18021
; LENGTH: 408
; TYPE: PRT
; ORGANISM: Zea mays subsp. mays
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)..(408)
; OTHER INFORMATION: Ceres Seq. ID no. 12362396
US-11-096-568A-18021

Query Match      68.2%; Score 30; DB 11; Length 408;
Best Local Similarity 62.5%; Pred. No. 2.1e+02;
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;
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OY      1 TLQDIYVHL 8
      |||::|||
Db      337 TLQSIHL 344

RESULT 46
US-11-087-099-7420
; Sequence 7420, Application US/11087099
; Publication No. US20060041961A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: Genes and Uses for Plant Improvement
; FILE REFERENCE: 38-21(53450)B EP
; CURRENT APPLICATION NUMBER: US/11/087,099
; CURRENT FILING DATE: 2005-03-22
; NUMBER OF SEQ ID NOS: 12464
; SEQ ID NO 7420
; LENGTH: 412
; TYPE: PRT
; ORGANISM: Neurospora crassa
US-11-087-099-7420

Query Match      68.2%; Score 30; DB 11; Length 412;
Best Local Similarity 62.5%; Pred. No. 2.1e+02;
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

OY      1 TLQDIYVHL 8
      |||::|||
Db      163 TLQEVVHL 170

RESULT 47
US-11-072-512-3033
; Sequence 3033, Application US/11072512
; Publication No. US20060029945A1
; GENERAL INFORMATION:
; APPLICANT: ISOGAI, TAKAO
; APPLICANT: SUGIYAMA, TOMOYASU
; APPLICANT: OTSUKI, TETSUJI
; APPLICANT: MAKAMATSU, AI
; APPLICANT: SATO, HIROYUKI
; APPLICANT: ISHII, SHIZUKO
; APPLICANT: YAMAMOTO, JUN-ICHI
; APPLICANT: ISONO, YUUKO
; APPLICANT: HIO, YURI
; APPLICANT: OTSUKA, KAORU
; APPLICANT: NAGAI, KEIICHI
; APPLICANT: IRIE, RYOTARO
; APPLICANT: TAMECHIKA, ICHIRO
; APPLICANT: SEKI, NAOHICO
; APPLICANT: YOSHIKAWA, TSUTOMU
; APPLICANT: OTSUKA, MOTOYUKI
; APPLICANT: NAGAHARI, KENJI
; APPLICANT: MASUHO, YASUHIKO
; TITLE OF INVENTION: Novel full length cDNA
; FILE REFERENCE: 084335-0191
; CURRENT APPLICATION NUMBER: US/11/072,512
; CURRENT FILING DATE: 2005-03-07
; PRIOR APPLICATION NUMBER: US 60/350,978
; PRIOR FILING DATE: 2002-01-25
; PRIOR APPLICATION NUMBER: JP 2001-379298
; PRIOR FILING DATE: 2001-11-05
; NUMBER OF SEQ ID NOS: 4096
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 3033
; LENGTH: 433
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-072-512-3033

Query Match      68.2%; Score 30; DB 11; Length 433;
Best Local Similarity 50.0%; Pred. No. 2.2e+02;
Matches 4; Conservative 4; Mismatches 0; Indels 0; Gaps 0;
```

OY 2 TLQDIVLH 9
|:|:|:|
Db 150 LRDIVLH 157

RESULT 48
US-11-096-568A-18020
; Sequence 18020, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
; APPLICANT: Alexandrov, Nickolai et al.
; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
; FILE REFERENCE: 2750-1592PUS2
; CURRENT APPLICATION NUMBER: US/11/096,568A
; CURRENT FILING DATE: 2005-04-01
; NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 18020
; LENGTH: 440
; TYPE: PRT
; ORGANISM: Zea mays subsp. mays
; FEATURE:
; NAME/KEY: misc.feature
; LOCATION: (1)-(440)
; OTHER INFORMATION: Ceres Seq. ID no. 12362395
US-11-096-568A-18020

Query Match 68.2%; Score 30; DB 11; Length 440;
Best Local Similarity 62.5%; Pred. No. 2.2e+02;
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

OY 1 TLQDIVLH 8
|:|:|:|
Db 369 TLRSLILH 376

RESULT 49
US-11-096-568A-18019
; Sequence 18019, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
; APPLICANT: Alexandrov, Nickolai et al.
; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
; FILE REFERENCE: 2750-1592PUS2
; CURRENT APPLICATION NUMBER: US/11/096,568A
; CURRENT FILING DATE: 2005-04-01
; NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 18019
; LENGTH: 448
; TYPE: PRT
; ORGANISM: Zea mays subsp. mays
; FEATURE:
; NAME/KEY: misc.feature
; LOCATION: (1)-(448)
; OTHER INFORMATION: Ceres Seq. ID no. 12362394
US-11-096-568A-18019

Query Match 68.2%; Score 30; DB 11; Length 448;
Best Local Similarity 62.5%; Pred. No. 2.3e+02;
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

OY 1 TLQDIVLH 8
|:|:|:|
Db 377 TLRSLILH 384

RESULT 50
US-10-784-004-466
; Sequence 466, Application US/10784004
; Publication No. US20060084066A1
; GENERAL INFORMATION:

; APPLICANT: Biogen Idec
; TITLE OF INVENTION: Surrogate Markers of Pain
; FILE REFERENCE: 08201.6029-00000
; CURRENT APPLICATION NUMBER: US/10/784,004
; CURRENT FILING DATE: 2004-02-20
; NUMBER OF SEQ ID NOS: 1251
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 466
; LENGTH: 451
; TYPE: PRT
; ORGANISM: rat
US-10-784-004-466

Query Match 68.2%; Score 30; DB 9; Length 451;
Best Local Similarity 85.7%; Pred. No. 2.3e+02;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 3 QDIVLH 9
|:|:|:|
Db 305 QDIVLH 311

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Job time : 10.4 secs

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OM protein - protein search, using sw model

Run on: May 5, 2006, 02:25:57 ; Search time 20.7 Seconds
(without alignments)
35.946 Million cell updates/sec

Title: US-08-170-344-31
Perfect score: 45
Sequence: 1 FQQLFLNTL 9

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 572060 seqs, 82675679 residues

Total number of hits satisfying chosen parameters: 572060

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 1000 summaries

Database : Issued Patents AA:*
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2: /cgn2_6/ptodata/1/1aa/6_COMB.pep:*
3: /cgn2_6/ptodata/1/1aa/H_COMB.pep:*
4: /cgn2_6/ptodata/1/1aa/PCITUS_COMB.pep:*
5: /cgn2_6/ptodata/1/1aa/RE_COMB.pep:*
6: /cgn2_6/ptodata/1/1aa/Backfile1.pep:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	45	100.0	29	1 US-08-934-915-66	Sequence 66, Appl
2	45	100.0	30	1 US-08-934-915-60	Sequence 60, Appl
3	45	100.0	227	2 US-09-485-885-16	Sequence 16, Appl
4	45	100.0	227	2 US-09-485-885-19	Sequence 19, Appl
5	45	100.0	272	1 US-08-117-083-13	Sequence 13, Appl
6	45	100.0	383	2 US-09-485-885-23	Sequence 23, Appl
7	39	86.7	448	2 US-09-543-681A-7245	Sequence 7245, Ap
8	36	80.0	358	2 US-09-198-452A-1049	Sequence 1049, Ap
9	36	80.0	153	2 US-09-438-185A-978	Sequence 978, Ap
10	34	75.6	222	2 US-09-270-767-42027	Sequence 42027, A
11	34	75.6	222	2 US-09-107-532A-4879	Sequence 4879, Ap
12	34	75.6	469	2 US-09-270-767-44482	Sequence 44482, A
13	34	75.6	591	2 US-09-134-000C-5327	Sequence 5327, Ap
14	33	73.3	174	2 US-09-645-593-7	Sequence 7, Appl
15	33	73.3	242	2 US-09-270-767-58952	Sequence 58952, A
16	33	73.3	333	2 US-09-270-767-46066	Sequence 46066, A
17	33	73.3	353	1 US-08-118-270-45	Sequence 45, Appl
18	33	73.3	353	4 PCT-US93-08528-45	Sequence 45, Appl
19	33	73.3	619	2 US-09-134-000C-5525	Sequence 5525, Ap
20	33	73.3	632	2 US-09-661-322A-2	Sequence 2, Appl
21	33	73.3	633	2 US-09-041-991A-8	Sequence 8, Appl
22	33	73.3	633	2 US-09-041-991A-10	Sequence 10, Appl
23	33	73.3	633	2 US-09-186-002-18	Sequence 18, Appl
24	33	73.3	633	2 US-09-608-533A-8	Sequence 8, Appl
25	33	73.3	634	2 US-09-608-533A-10	Sequence 10, Appl
26	33	73.3	634	2 US-09-186-002-2	Sequence 2, Appl
27	33	73.3	634	2 US-09-186-002-12	Sequence 12, Appl

28	33	73.3	635	2 US-09-041-991A-4	Sequence 4, Appl
29	33	73.3	635	2 US-09-608-533A-4	Sequence 4, Appl
30	33	73.3	635	2 US-09-661-322A-46	Sequence 46, Appl
31	32	71.1	396	2 US-08-985-908-24	Sequence 24, Appl
32	32	71.1	429	2 US-09-328-352-4875	Sequence 4875, Ap
33	32	71.1	626	2 US-09-155-770-7	Sequence 7, Appl
34	31	68.9	62	2 US-09-107-532A-4869	Sequence 4869, Ap
35	31	68.9	110	2 US-09-513-999C-8073	Sequence 8073, Ap
36	31	68.9	123	2 US-09-107-532A-3923	Sequence 3923, Ap
37	31	68.9	303	2 US-09-252-991A-28605	Sequence 28605, A
38	31	68.9	324	2 US-10-166-653-6	Sequence 6, Appl
39	31	68.9	410	1 US-08-471-033-43	Sequence 40, Appl
40	31	68.9	410	1 US-08-471-033-43	Sequence 40, Appl
41	31	68.9	410	1 US-08-471-044-40	Sequence 43, Appl
42	31	68.9	410	1 US-08-471-044-43	Sequence 40, Appl
43	31	68.9	410	1 US-08-463-483A-40	Sequence 43, Appl
44	31	68.9	410	1 US-08-463-483A-43	Sequence 40, Appl
45	31	68.9	410	1 US-08-471-046A-40	Sequence 43, Appl
46	31	68.9	410	1 US-08-471-046A-43	Sequence 40, Appl
47	31	68.9	410	1 US-08-470-566B-40	Sequence 43, Appl
48	31	68.9	410	1 US-08-470-566B-43	Sequence 40, Appl
49	31	68.9	410	1 US-08-469-334-40	Sequence 43, Appl
50	31	68.9	410	1 US-08-469-334-43	Sequence 40, Appl
51	31	68.9	410	1 US-09-300-529-40	Sequence 40, Appl
52	31	68.9	410	2 US-09-300-529-43	Sequence 43, Appl
53	31	68.9	443	2 US-09-489-039A-9335	Sequence 9335, Ap
54	31	68.9	446	2 US-08-960-780-52	Sequence 52, Appl
55	31	68.9	446	2 US-09-073-898-52	Sequence 52, Appl
56	31	68.9	446	2 US-09-307-106-12	Sequence 12, Appl
57	31	68.9	446	2 US-09-850-351A-52	Sequence 52, Appl
58	31	68.9	449	1 US-08-471-033-46	Sequence 46, Appl
59	31	68.9	449	1 US-08-471-044-46	Sequence 46, Appl
60	31	68.9	449	1 US-08-463-483A-46	Sequence 46, Appl
61	31	68.9	449	1 US-08-471-046A-46	Sequence 46, Appl
62	31	68.9	449	1 US-08-470-566B-46	Sequence 46, Appl
63	31	68.9	449	1 US-08-469-334-46	Sequence 46, Appl
64	31	68.9	449	1 US-09-300-529-46	Sequence 46, Appl
65	31	68.9	462	1 US-08-471-033-2	Sequence 2, Appl
66	31	68.9	462	1 US-08-471-033-20	Sequence 20, Appl
67	31	68.9	462	1 US-08-471-044-2	Sequence 2, Appl
68	31	68.9	462	1 US-08-471-044-20	Sequence 20, Appl
69	31	68.9	462	1 US-08-463-483A-2	Sequence 20, Appl
70	31	68.9	462	1 US-08-463-483A-20	Sequence 20, Appl
71	31	68.9	462	1 US-08-471-046A-2	Sequence 20, Appl
72	31	68.9	462	1 US-08-471-046A-20	Sequence 20, Appl
73	31	68.9	462	1 US-08-470-566B-2	Sequence 2, Appl
74	31	68.9	462	1 US-08-469-334-2	Sequence 20, Appl
75	31	68.9	462	1 US-08-469-334-20	Sequence 20, Appl
76	31	68.9	462	1 US-08-469-334-20	Sequence 20, Appl
77	31	68.9	462	1 US-08-469-334-20	Sequence 20, Appl
78	31	68.9	462	1 US-08-469-334-20	Sequence 20, Appl
79	31	68.9	540	2 US-09-248-796A-18127	Sequence 18127, A
80	31	68.9	651	2 US-08-996-441B-52	Sequence 52, Appl
81	31	68.9	651	2 US-08-996-441B-56	Sequence 56, Appl
82	31	68.9	651	2 US-08-993-722A-52	Sequence 52, Appl
83	31	68.9	651	2 US-08-993-722A-56	Sequence 56, Appl
84	31	68.9	651	2 US-08-993-722A-58	Sequence 58, Appl
85	31	68.9	651	2 US-08-993-722A-58	Sequence 58, Appl
86	31	68.9	651	2 US-08-993-170A-52	Sequence 52, Appl
87	31	68.9	651	2 US-08-993-170A-58	Sequence 58, Appl
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89	31	68.9	651	2 US-08-993-775B-56	Sequence 56, Appl
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92	31	68.9	651	2 US-09-427-770-56	Sequence 56, Appl
93	31	68.9	651	2 US-09-427-770-58	Sequence 58, Appl
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95	31	68.9	651	2 US-09-427-765-56	Sequence 56, Appl
96	31	68.9	651	2 US-09-427-765-58	Sequence 58, Appl
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98	31	68.9	652	2 US-08-996-441B-4	Sequence 4, Appl
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100	31	68.9	652	2 US-08-996-441B-6	Sequence 6, Appl

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102	31	68.9	652	2	US-08-996-441B-10	Sequence 10, Appl	175	31	68.9	652	2	US-08-993-170A-20	Sequence 20, App
103	31	68.9	652	2	US-08-996-441B-12	Sequence 12, Appl	176	31	68.9	652	2	US-08-993-170A-22	Sequence 22, App
104	31	68.9	652	2	US-08-996-441B-14	Sequence 14, Appl	177	31	68.9	652	2	US-08-993-170A-24	Sequence 24, App
105	31	68.9	652	2	US-08-996-441B-16	Sequence 16, Appl	178	31	68.9	652	2	US-08-993-170A-26	Sequence 26, App
106	31	68.9	652	2	US-08-996-441B-18	Sequence 18, Appl	179	31	68.9	652	2	US-08-993-170A-28	Sequence 28, App
107	31	68.9	652	2	US-08-996-441B-20	Sequence 20, Appl	180	31	68.9	652	2	US-08-993-170A-30	Sequence 30, App
108	31	68.9	652	2	US-08-996-441B-22	Sequence 22, Appl	181	31	68.9	652	2	US-08-993-170A-32	Sequence 32, App
109	31	68.9	652	2	US-08-996-441B-24	Sequence 24, Appl	182	31	68.9	652	2	US-08-993-170A-34	Sequence 34, App
110	31	68.9	652	2	US-08-996-441B-26	Sequence 26, Appl	183	31	68.9	652	2	US-08-993-170A-36	Sequence 36, App
111	31	68.9	652	2	US-08-996-441B-28	Sequence 28, Appl	184	31	68.9	652	2	US-08-993-170A-38	Sequence 38, App
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113	31	68.9	652	2	US-08-996-441B-32	Sequence 32, Appl	186	31	68.9	652	2	US-08-993-170A-42	Sequence 42, App
114	31	68.9	652	2	US-08-996-441B-34	Sequence 34, Appl	187	31	68.9	652	2	US-08-993-170A-44	Sequence 44, App
115	31	68.9	652	2	US-08-996-441B-36	Sequence 36, Appl	188	31	68.9	652	2	US-08-993-170A-46	Sequence 46, App
116	31	68.9	652	2	US-08-996-441B-38	Sequence 38, Appl	189	31	68.9	652	2	US-08-993-170A-48	Sequence 48, App
117	31	68.9	652	2	US-08-996-441B-40	Sequence 40, Appl	190	31	68.9	652	2	US-08-993-170A-50	Sequence 50, App
118	31	68.9	652	2	US-08-996-441B-42	Sequence 42, Appl	191	31	68.9	652	2	US-08-993-170A-54	Sequence 54, App
119	31	68.9	652	2	US-08-996-441B-44	Sequence 44, Appl	192	31	68.9	652	2	US-08-993-170A-60	Sequence 60, App
120	31	68.9	652	2	US-08-996-441B-46	Sequence 46, Appl	193	31	68.9	652	2	US-08-993-170A-62	Sequence 62, App
121	31	68.9	652	2	US-08-996-441B-48	Sequence 48, Appl	194	31	68.9	652	2	US-08-993-170A-64	Sequence 64, App
122	31	68.9	652	2	US-08-996-441B-50	Sequence 50, Appl	195	31	68.9	652	2	US-08-993-170A-66	Sequence 66, App
123	31	68.9	652	2	US-08-996-441B-54	Sequence 54, Appl	196	31	68.9	652	2	US-08-993-170A-68	Sequence 68, App
124	31	68.9	652	2	US-08-996-441B-60	Sequence 60, Appl	197	31	68.9	652	2	US-08-993-170A-98	Sequence 98, App
125	31	68.9	652	2	US-08-996-441B-62	Sequence 62, Appl	198	31	68.9	652	2	US-08-993-170A-108	Sequence 108, App
126	31	68.9	652	2	US-08-996-441B-64	Sequence 64, Appl	199	31	68.9	652	2	US-08-993-170A-111	Sequence 111, App
127	31	68.9	652	2	US-08-996-441B-66	Sequence 66, Appl	200	31	68.9	652	2	US-08-993-1758-2	Sequence 2, Appl1
128	31	68.9	652	2	US-08-996-441B-68	Sequence 68, Appl	201	31	68.9	652	2	US-08-993-1758-4	Sequence 4, Appl1
129	31	68.9	652	2	US-08-996-441B-98	Sequence 98, Appl	202	31	68.9	652	2	US-08-993-1758-6	Sequence 6, Appl1
130	31	68.9	652	2	US-08-996-441B-108	Sequence 108, App	203	31	68.9	652	2	US-08-993-1758-8	Sequence 8, Appl1
131	31	68.9	652	2	US-08-996-441B-111	Sequence 111, App	204	31	68.9	652	2	US-08-993-1758-10	Sequence 10, App
132	31	68.9	652	2	US-08-993-722A-2	Sequence 2, Appl1	205	31	68.9	652	2	US-08-993-1758-12	Sequence 12, App
133	31	68.9	652	2	US-08-993-722A-4	Sequence 4, Appl1	206	31	68.9	652	2	US-08-993-1758-14	Sequence 14, App
134	31	68.9	652	2	US-08-993-722A-6	Sequence 6, Appl1	207	31	68.9	652	2	US-08-993-1758-16	Sequence 16, App
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138	31	68.9	652	2	US-08-993-722A-14	Sequence 14, Appl	211	31	68.9	652	2	US-08-993-1758-24	Sequence 24, App
139	31	68.9	652	2	US-08-993-722A-16	Sequence 16, Appl	212	31	68.9	652	2	US-08-993-1758-26	Sequence 26, App
140	31	68.9	652	2	US-08-993-722A-18	Sequence 18, Appl	213	31	68.9	652	2	US-08-993-1758-28	Sequence 28, App
141	31	68.9	652	2	US-08-993-722A-20	Sequence 20, Appl	214	31	68.9	652	2	US-08-993-1758-30	Sequence 30, App
142	31	68.9	652	2	US-08-993-722A-22	Sequence 22, Appl	215	31	68.9	652	2	US-08-993-1758-32	Sequence 32, App
143	31	68.9	652	2	US-08-993-722A-24	Sequence 24, Appl	216	31	68.9	652	2	US-08-993-1758-34	Sequence 34, App
144	31	68.9	652	2	US-08-993-722A-26	Sequence 26, Appl	217	31	68.9	652	2	US-08-993-1758-36	Sequence 36, App
145	31	68.9	652	2	US-08-993-722A-28	Sequence 28, Appl	218	31	68.9	652	2	US-08-993-1758-38	Sequence 38, App
146	31	68.9	652	2	US-08-993-722A-30	Sequence 30, Appl	219	31	68.9	652	2	US-08-993-1758-40	Sequence 40, App
147	31	68.9	652	2	US-08-993-722A-32	Sequence 32, Appl	220	31	68.9	652	2	US-08-993-1758-42	Sequence 42, App
148	31	68.9	652	2	US-08-993-722A-34	Sequence 34, Appl	221	31	68.9	652	2	US-08-993-1758-44	Sequence 44, App
149	31	68.9	652	2	US-08-993-722A-36	Sequence 36, Appl	222	31	68.9	652	2	US-08-993-1758-46	Sequence 46, App
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151	31	68.9	652	2	US-08-993-722A-40	Sequence 40, Appl	224	31	68.9	652	2	US-08-993-1758-50	Sequence 50, App
152	31	68.9	652	2	US-08-993-722A-42	Sequence 42, Appl	225	31	68.9	652	2	US-08-993-1758-54	Sequence 54, App
153	31	68.9	652	2	US-08-993-722A-44	Sequence 44, Appl	226	31	68.9	652	2	US-08-993-1758-60	Sequence 60, App
154	31	68.9	652	2	US-08-993-722A-46	Sequence 46, Appl	227	31	68.9	652	2	US-08-993-1758-62	Sequence 62, App
155	31	68.9	652	2	US-08-993-722A-48	Sequence 48, Appl	228	31	68.9	652	2	US-08-993-1758-64	Sequence 64, App
156	31	68.9	652	2	US-08-993-722A-50	Sequence 50, Appl	229	31	68.9	652	2	US-08-993-1758-66	Sequence 66, App
157	31	68.9	652	2	US-08-993-722A-54	Sequence 54, Appl	230	31	68.9	652	2	US-08-993-1758-68	Sequence 68, App
158	31	68.9	652	2	US-08-993-722A-60	Sequence 60, Appl	231	31	68.9	652	2	US-08-993-1758-98	Sequence 98, App
159	31	68.9	652	2	US-08-993-722A-62	Sequence 62, Appl	232	31	68.9	652	2	US-08-993-1758-108	Sequence 108, App
160	31	68.9	652	2	US-08-993-722A-64	Sequence 64, Appl	233	31	68.9	652	2	US-08-993-1758-111	Sequence 111, App
161	31	68.9	652	2	US-08-993-722A-66	Sequence 66, Appl	234	31	68.9	652	2	US-09-317-1668-2	Sequence 2, Appl1
162	31	68.9	652	2	US-08-993-722A-68	Sequence 68, Appl	235	31	68.9	652	2	US-09-317-1668-6	Sequence 6, Appl1
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164	31	68.9	652	2	US-08-993-722A-108	Sequence 108, App	237	31	68.9	652	2	US-09-427-1770-4	Sequence 4, Appl1
165	31	68.9	652	2	US-08-993-722A-111	Sequence 111, App	238	31	68.9	652	2	US-09-427-1770-6	Sequence 6, Appl1
166	31	68.9	652	2	US-08-993-170A-2	Sequence 2, Appl1	239	31	68.9	652	2	US-09-427-1770-8	Sequence 8, Appl1
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168	31	68.9	652	2	US-08-993-170A-6	Sequence 6, Appl1	241	31	68.9	652	2	US-09-427-1770-12	Sequence 12, Appl1
169	31	68.9	652	2	US-08-993-170A-8	Sequence 8, Appl1	242	31	68.9	652	2	US-09-427-1770-14	Sequence 14, Appl1
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173	31	68.9	652	2	US-08-993-170A-16	Sequence 16, Appl	246	31	68.9	652	2	US-09-427-1770-22	Sequence 22, Appl1

247	31	68.9	652	2	US-09-427-770-24	Sequence 24, App1	320	31	68.9	653	2	US-09-377-466B-37	Sequence 37, App1
248	31	68.9	652	2	US-09-427-770-26	Sequence 26, App1	321	31	68.9	653	2	US-09-377-466B-39	Sequence 39, App1
249	31	68.9	652	2	US-09-427-770-28	Sequence 28, App1	322	31	68.9	653	2	US-09-427-770-100	Sequence 100, App
250	31	68.9	652	2	US-09-427-770-30	Sequence 30, App1	323	31	68.9	653	2	US-09-427-769-100	Sequence 8, App1
251	31	68.9	652	2	US-09-427-770-32	Sequence 32, App1	325	31	68.9	653	2	US-10-232-665-8	Sequence 10, App1
252	31	68.9	652	2	US-09-427-770-34	Sequence 34, App1	325	31	68.9	653	2	US-10-232-665-10	Sequence 12, App1
253	31	68.9	652	2	US-09-427-770-36	Sequence 36, App1	326	31	68.9	653	2	US-10-232-665-14	Sequence 14, App1
254	31	68.9	652	2	US-09-427-770-38	Sequence 38, App1	327	31	68.9	653	2	US-10-232-665-16	Sequence 16, App1
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256	31	68.9	652	2	US-09-427-770-42	Sequence 42, App1	329	31	68.9	653	2	US-10-232-665-20	Sequence 20, App1
257	31	68.9	652	2	US-09-427-770-44	Sequence 44, App1	330	31	68.9	653	2	US-10-232-665-22	Sequence 22, App1
258	31	68.9	652	2	US-09-427-770-46	Sequence 46, App1	331	31	68.9	653	2	US-10-232-665-24	Sequence 24, App1
259	31	68.9	652	2	US-09-427-770-48	Sequence 48, App1	332	31	68.9	653	2	US-10-232-665-26	Sequence 26, App1
260	31	68.9	652	2	US-09-427-770-50	Sequence 50, App1	333	31	68.9	653	2	US-10-232-665-28	Sequence 28, App1
261	31	68.9	652	2	US-09-427-770-52	Sequence 52, App1	334	31	68.9	653	2	US-10-232-665-30	Sequence 30, App1
262	31	68.9	652	2	US-09-427-770-54	Sequence 54, App1	335	31	68.9	732	2	US-09-518-550-20	Sequence 21, App1
263	31	68.9	652	2	US-09-427-770-56	Sequence 56, App1	336	31	68.9	962	2	US-09-694-777A-21	Sequence 9, App1
264	31	68.9	652	2	US-09-427-770-58	Sequence 58, App1	337	31	68.9	962	2	US-09-694-777A-3	Sequence 3, App1
265	31	68.9	652	2	US-09-427-770-60	Sequence 60, App1	338	31	68.9	962	2	US-09-694-777A-9	Sequence 24, App1
266	31	68.9	652	2	US-09-427-770-62	Sequence 62, App1	339	31	68.9	962	2	US-09-694-777A-24	Sequence 9, App1
267	31	68.9	652	2	US-09-427-770-64	Sequence 64, App1	340	31	68.9	968	2	US-10-422-075-9	Sequence 2, App1
268	31	68.9	652	2	US-09-427-770-66	Sequence 66, App1	341	31	68.9	968	2	US-10-422-075-12	Sequence 4, App1
269	31	68.9	652	2	US-09-427-770-68	Sequence 68, App1	342	31	68.9	987	2	US-09-694-777A-23	Sequence 23, App1
270	31	68.9	652	2	US-09-427-770-70	Sequence 70, App1	343	31	68.9	987	2	US-09-694-777A-22	Sequence 2, App1
271	31	68.9	652	2	US-09-427-769-2	Sequence 2, App1	344	31	68.9	988	2	US-10-162-012-5	Sequence 5, App1
272	31	68.9	652	2	US-09-427-769-4	Sequence 4, App1	345	31	68.9	988	2	US-10-162-012-5	Sequence 12, App1
273	31	68.9	652	2	US-09-427-769-6	Sequence 6, App1	346	31	68.9	988	2	US-10-162-012-12	Sequence 2, App1
274	31	68.9	652	2	US-09-427-769-8	Sequence 8, App1	347	31	68.9	989	2	US-09-694-777A-4	Sequence 23, App1
275	31	68.9	652	2	US-09-427-769-10	Sequence 10, App1	348	31	68.9	989	2	US-09-694-777A-23	Sequence 9925, Ap
276	31	68.9	652	2	US-09-427-769-12	Sequence 12, App1	349	31	68.9	1004	2	US-08-471-033-50	Sequence 50, App1
277	31	68.9	652	2	US-09-427-769-14	Sequence 14, App1	350	31	68.9	1004	2	US-08-471-044-50	Sequence 50, App1
278	31	68.9	652	2	US-09-427-769-16	Sequence 16, App1	351	31	68.9	1338	1	US-08-463-483A-50	Sequence 50, App1
279	31	68.9	652	2	US-09-427-769-18	Sequence 18, App1	352	31	68.9	1338	1	US-08-471-046A-50	Sequence 50, App1
280	31	68.9	652	2	US-09-427-769-20	Sequence 20, App1	353	31	68.9	1338	1	US-08-470-566B-50	Sequence 50, App1
281	31	68.9	652	2	US-09-427-769-22	Sequence 22, App1	354	31	68.9	1338	1	US-08-469-334-50	Sequence 50, App1
282	31	68.9	652	2	US-09-427-769-24	Sequence 24, App1	355	31	68.9	1338	2	US-09-300-529-50	Sequence 23, App1
283	31	68.9	652	2	US-09-427-769-26	Sequence 26, App1	356	31	68.9	1338	1	US-08-471-033-23	Sequence 23, App1
284	31	68.9	652	2	US-09-427-769-28	Sequence 28, App1	357	31	68.9	1346	1	US-08-471-044-23	Sequence 23, App1
285	31	68.9	652	2	US-09-427-769-30	Sequence 30, App1	358	31	68.9	1346	1	US-08-463-483A-23	Sequence 23, App1
286	31	68.9	652	2	US-09-427-769-32	Sequence 32, App1	359	31	68.9	1346	1	US-08-471-046A-23	Sequence 23, App1
287	31	68.9	652	2	US-09-427-769-34	Sequence 34, App1	360	31	68.9	1346	1	US-08-470-566B-23	Sequence 23, App1
288	31	68.9	652	2	US-09-427-769-36	Sequence 36, App1	361	31	68.9	1346	1	US-08-469-334-23	Sequence 23, App1
289	31	68.9	652	2	US-09-427-769-38	Sequence 38, App1	362	31	68.9	1346	1	US-09-300-529-23	Sequence 23, App1
290	31	68.9	652	2	US-09-427-769-40	Sequence 40, App1	363	31	68.9	1346	2	US-09-300-529-23	Sequence 23, App1
291	31	68.9	652	2	US-09-427-769-42	Sequence 42, App1	364	30	66.7	30	1	US-09-934-915-65	Sequence 65, App1
292	31	68.9	652	2	US-09-427-769-44	Sequence 44, App1	365	30	66.7	78	2	US-09-248-796A-75580	Sequence 7580, Ap
293	31	68.9	652	2	US-09-427-769-46	Sequence 46, App1	366	30	66.7	95	2	US-09-328-352-7578	Sequence 7582, Ap
294	31	68.9	652	2	US-09-427-769-48	Sequence 48, App1	367	30	66.7	105	2	US-09-513-998C-7882	Sequence 17164, A
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304	31	68.9	652	2	US-09-427-769-68	Sequence 68, App1	377	30	66.7	332	2	US-08-445-515-59	Sequence 1, App1
305	31	68.9	652	2	US-09-427-769-70	Sequence 70, App1	378	30	66.7	392	1	US-09-080-513-1	Sequence 1, App1
306	31	68.9	652	2	US-09-427-769-72	Sequence 72, App1	379	30	66.7	392	2	US-09-387-438-1	Sequence 6, App1
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309	31	68.9	653	2	US-08-993-722A-100	Sequence 100, App	382	30	66.7	454	2	US-09-538-092-767	Sequence 26, App1
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312	31	68.9	653	2	US-08-993-722A-100	Sequence 100, App	385	30	66.7	476	1	US-08-828-451-26	Sequence 24, App1
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316	31	68.9	653	2	US-08-993-722A-100	Sequence 100, App	389	30	66.7	512	1	US-08-541-033A-4	Sequence 4, App1
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394	30	66.7	524	2	US-09-242-913B-15	Sequence 15, Appl	467	29	64.4	727	2	US-09-487-558B-296	Sequence 296, App
395	30	66.7	526	1	US-08-541-033A-2	Sequence 2, Appl1	468	29	64.4	799	2	US-09-252-991A-20752	Sequence 20752, A
396	30	66.7	526	1	US-08-828-451-2	Sequence 2, Appl1	469	29	64.4	803	2	US-09-543-681A-4886	Sequence 4886, Ap
397	30	66.7	538	2	US-09-710-279-260	Sequence 260, App	470	29	64.4	1017	2	US-09-538-092-319	Sequence 319, App
398	30	66.7	567	2	US-09-134-001C-5646	Sequence 5646, Ap	471	29	64.4	1156	2	US-09-002-285-72	Sequence 72, Appl
399	30	66.7	593	2	US-09-605-703B-2050	Sequence 2050, Ap	472	29	64.4	1156	2	US-09-589-477-72	Sequence 72, Appl
400	30	66.7	705	2	US-09-408-820-2	Sequence 2, Appl1	473	29	64.4	1156	2	US-09-661-322A-28	Sequence 28, Appl
401	30	66.7	808	2	US-09-543-681A-4995	Sequence 4995, Ap	474	29	64.4	1156	2	US-10-099-285A-72	Sequence 72, Appl
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405	30	66.7	907	2	US-08-990-140-4	Sequence 4, Appl1	478	29	64.4	1157	2	US-09-019-809-5	Sequence 5, Appl1
406	30	66.7	908	2	US-09-546-238-4	Sequence 4, Appl1	479	29	64.4	1157	2	US-09-471-177-5	Sequence 5, Appl1
407	30	66.7	908	2	US-09-248-796A-14741	Sequence 14741, A	480	29	64.4	1157	2	US-09-220-806-5	Sequence 5, Appl1
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411	30	66.7	5588	2	US-09-036-987A-6	Sequence 6, Appl1	484	28	62.2	81	1	US-08-553-476-84	Sequence 84, Appl
412	30	66.7	5588	2	US-09-370-700-6	Sequence 6, Appl1	485	28	62.2	81	2	US-08-679-493A-103	Sequence 103, App
413	30	66.7	5588	2	US-09-603-207-6	Sequence 6, Appl1	486	28	62.2	84	1	US-08-353-476-97	Sequence 97, Appl
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437	29	64.4	359	2	US-09-107-433-2619	Sequence 2619, Ap	510	28	62.2	383	2	US-09-107-532A-5205	Sequence 5205, Ap
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456	29	64.4	619	2	US-08-813-150-6	Sequence 6, Appl1	529	28	62.2	625	2	US-09-661-322A-48	Sequence 48, Appl
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587	27	60.0	95	2	US-09-263-810-6	Sequence 6, Appl1
588	27	60.0	95	2	US-09-583-169-6	Sequence 6, Appl1
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595	27	60.0	114	2	US-09-328-352-7585	Sequence 7585, App
596	27	60.0	116	2	US-09-949-016-8424	Sequence 8424, App
597	27	60.0	116	2	US-09-640-211A-762	Sequence 762, App
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603	27	60.0	180	2	US-09-583-110-4398	Sequence 4398, App
604	27	60.0	184	2	US-09-543-681A-4219	Sequence 4219, App
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606	27	60.0	185	2	US-09-830-230A-410	Sequence 410, App
607	27	60.0	191	2	US-09-107-433-3302	Sequence 3302, App
608	27	60.0	203	2	US-09-252-991A-21301	Sequence 21301, A
609	27	60.0	214	2	US-09-830-230A-409	Sequence 409, App
610	27	60.0	217	2	US-09-583-110-4653	Sequence 4653, App
611	27	60.0	223	2	US-09-270-767-60809	Sequence 60809, A
612	27	60.0	231	2	US-09-489-039A-13678	Sequence 13678, A
613	27	60.0	233	2	US-09-281-646B-32	Sequence 32, Appl1
614	27	60.0	235	2	US-09-270-767-57304	Sequence 57304, A
615	27	60.0	236	2	US-09-270-767-46803	Sequence 46803, A
616	27	60.0	247	2	US-09-603-208A-76	Sequence 76, Appl1
617	27	60.0	253	2	US-09-489-039A-7816	Sequence 7816, App
618	27	60.0	254	2	US-09-252-991A-17980	Sequence 17980, A
619	27	60.0	254	2	US-10-087-167-6	Sequence 6, Appl1
620	27	60.0	255	2	US-09-540-236-3383	Sequence 3383, App
621	27	60.0	257	2	US-09-543-681A-6811	Sequence 6811, App
622	27	60.0	259	2	US-09-248-796A-15939	Sequence 15939, A
623	27	60.0	262	2	US-09-270-767-4454	Sequence 32100, A
624	27	60.0	262	2	US-09-270-767-47317	Sequence 47317, A
625	27	60.0	266	2	US-09-543-681A-6508	Sequence 6508, App
626	27	60.0	271	2	US-09-248-796A-25520	Sequence 25520, A
627	27	60.0	283	2	US-10-087-167-10	Sequence 10, Appl1
628	27	60.0	284	2	US-09-248-796A-18540	Sequence 18540, A
629	27	60.0	306	2	US-09-270-767-4454	Sequence 34454, A
630	27	60.0	306	2	US-09-270-767-49671	Sequence 49671, A
631	27	60.0	309	2	US-09-328-352-7637	Sequence 7637, App
632	27	60.0	311	2	US-09-489-039A-12640	Sequence 12640, A
633	27	60.0	314	2	US-08-653-648A-16	Sequence 16, Appl1
634	27	60.0	314	2	US-09-564-418-7	Sequence 7, Appl1
635	27	60.0	315	2	US-09-270-767-42091	Sequence 42091, A
636	27	60.0	319	2	US-08-653-648A-7	Sequence 7, Appl1
637	27	60.0	319	2	US-09-564-418-13	Sequence 13, Appl1
638	27	60.0	321	2	US-09-107-532A-4975	Sequence 4975, App
639	27	60.0	330	2	US-09-328-352-1171	Sequence 6111, App
640	27	60.0	339	2	US-09-248-796A-20595	Sequence 20595, A
641	27	60.0	353	2	US-09-134-000C-5562	Sequence 5562, App
642	27	60.0	357	2	US-10-104-0647-1150	Sequence 3150, App
643	27	60.0	359	2	US-10-012-819-164	Sequence 164, App
644	27	60.0	362	2	US-09-134-000C-5907	Sequence 5907, App
645	27	60.0	366	2	US-09-487-558B-254	Sequence 254, App
646	27	60.0	375	2	US-09-000-094-22	Sequence 22, Appl1
647	27	60.0	375	2	US-10-011-749-22	Sequence 22, Appl1
648	27	60.0	383	2	US-09-949-016-11526	Sequence 11526, A
649	27	60.0	385	2	US-09-543-681A-7283	Sequence 7283, App
650	27	60.0	385	2	US-09-248-796A-26490	Sequence 26490, A
651	27	60.0	387	2	US-09-328-352-5367	Sequence 5367, App
652	27	60.0	395	2	US-09-248-796A-16028	Sequence 16028, A
653	27	60.0	401	2	US-09-198-452A-928	Sequence 928, App
654	27	60.0	401	2	US-09-107-433-4902	Sequence 4902, App
655	27	60.0	402	2	US-08-290-711C-14	Sequence 864, App
656	27	60.0	402	1	US-09-743-742B-6	Sequence 14, Appl1
657	27	60.0	415	2	US-09-743-742B-6	Sequence 6, Appl1
658	27	60.0	416	2	US-08-858-876A-4	Sequence 4, Appl1
659	27	60.0	416	2	US-09-472-880-4	Sequence 4, Appl1
660	27	60.0	419	2	US-09-489-039A-10921	Sequence 10921, A
661	27	60.0	421	2	US-08-759-628-5	Sequence 5, Appl1
662	27	60.0	426	2	US-09-242-913B-3	Sequence 3, Appl1
663	27	60.0	446	1	US-08-922-171-3	Sequence 3, Appl1
664	27	60.0	447	2	US-09-583-110-3988	Sequence 3988, App
665	27	60.0	451	2	US-09-642-000-2	Sequence 2, Appl1
666	27	60.0	451	2	US-09-328-352-5922	Sequence 5922, App
667	27	60.0	452	2	US-09-242-913B-2	Sequence 2, Appl1
668	27	60.0	456	2	US-09-107-433-3141	Sequence 3141, App
669	27	60.0	465	2	US-09-000-09A-24	Sequence 24, Appl1
670	27	60.0	465	2	US-10-011-749-24	Sequence 24, Appl1
671	27	60.0	467	2	US-09-411-132A-8	Sequence 4, Appl1
672	27	60.0	467	2	US-09-328-352-5725	Sequence 5725, App
673	27	60.0	472	1	US-08-922-171-2	Sequence 2593, App
674	27	60.0	472	1	US-09-540-236-2593	Sequence 7, Appl1
675	27	60.0	473	2	US-09-411-132A-7	Sequence 8, Appl1
676	27	60.0	473	2	US-09-107-532A-8	Sequence 8, Appl1
677	27	60.0	478	2	US-09-137-222A-2	Sequence 4200, App
678	27	60.0	497	2	US-09-583-110-5088	Sequence 2, Appl1
679	27	60.0	499	2	US-10-087-167-66	Sequence 5088, App
680	27	60.0	502	2	US-10-087-167-66	Sequence 68, Appl1
681	27	60.0	504	2	US-09-134-000C-4525	Sequence 4525, App
682	27	60.0	504	2	US-09-107-433-3732	Sequence 3732, App
683	27	60.0	504	2	US-10-087-167-76	Sequence 76, Appl1

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686	27	60.0	505	2	US-09-769-787-120	Sequence 120, App	759	27	60.0	1587	2	US-09-000-094-46	Sequence 46, Appl
687	27	60.0	507	2	US-10-087-167-78	Sequence 78, Appl	760	27	60.0	1587	2	US-10-011-749-46	Sequence 46, Appl
688	27	60.0	511	2	US-09-107-433-4514	Sequence 4514, Ap	761	27	60.0	1791	2	US-09-354-147C-42	Sequence 42, Appl
689	27	60.0	513	2	US-10-087-167-74	Sequence 74, Appl	762	27	60.0	1826	2	US-09-198-452A-113	Sequence 113, Appl
690	27	60.0	514	2	US-09-270-767-42047	Sequence 42047, A	763	27	60.0	1837	2	US-09-438-185A-98	Sequence 98, Appl
691	27	60.0	546	2	US-09-393-839-2	Sequence 2, Appl	764	27	60.0	2257	2	US-09-839-477-8	Sequence 8, Appl
692	27	60.0	548	2	US-09-380-061B-18	Sequence 18, Appl	765	27	60.0	2431	1	US-07-920-281C-2	Sequence 2, Appl
693	27	60.0	548	2	US-08-487-183A-16	Sequence 16, Appl	766	27	60.0	2431	2	US-08-466-277-2	Sequence 2, Appl
694	27	60.0	548	2	US-09-386-154-29	Sequence 29, Appl	767	27	60.0	2431	2	US-09-888-842-2	Sequence 2, Appl
695	27	60.0	551	2	US-08-896-537A-2	Sequence 2, Appl	768	27	60.0	2509	2	US-09-252-991A-16642	Sequence 16642, A
696	27	60.0	552	2	US-09-328-352-5773	Sequence 5773, Ap	769	27	60.0	2636	1	US-09-252-991A-25753	Sequence 25753, A
697	27	60.0	565	2	US-09-248-796A-15760	Sequence 15760, A	770	27	60.0	3665	1	US-08-222-617A-13	Sequence 13, Appl
698	27	60.0	575	2	US-08-653-648A-5	Sequence 5, Appl	771	27	60.0	3712	1	US-08-222-617A-4	Sequence 4, Appl
699	27	60.0	575	2	US-09-564-418-5	Sequence 5, Appl	772	27	60.0	3712	1	US-08-222-617A-25	Sequence 25, Appl
700	27	60.0	588	2	US-10-087-167-121	Sequence 121, App	773	27	58.9	229	2	US-09-134-000C-6167	Sequence 6167, Ap
701	27	60.0	591	2	US-10-087-167-119	Sequence 119, App	774	27	58.9	246	2	US-09-328-352-6313	Sequence 6313, Ap
702	27	60.0	593	2	US-10-087-167-125	Sequence 125, App	775	26	57.8	15	2	US-09-073-009-97	Sequence 97, Appl
703	27	60.0	597	2	US-09-717-364A-29	Sequence 29, Appl	776	26	57.8	15	2	US-09-073-009-98	Sequence 98, Appl
704	27	60.0	601	1	US-08-606-288-7	Sequence 7, Appl	777	26	57.8	15	2	US-09-073-010-97	Sequence 97, Appl
705	27	60.0	601	1	US-08-606-288-10	Sequence 10, Appl	778	26	57.8	15	2	US-09-073-010-98	Sequence 98, Appl
706	27	60.0	601	2	US-09-347-483-7	Sequence 7, Appl	779	26	57.8	15	2	US-09-270-767-37529	Sequence 37529, A
707	27	60.0	601	2	US-09-347-483-10	Sequence 10, Appl	780	26	57.8	29	2	US-09-270-767-52746	Sequence 52746, A
708	27	60.0	606	2	US-08-891-298-3	Sequence 3, Appl	781	26	57.8	57	2	US-09-504-615-84	Sequence 84, Appl
709	27	60.0	606	2	US-08-653-648A-11	Sequence 11, Appl	782	26	57.8	57	2	US-10-054-988B-84	Sequence 84, Appl
710	27	60.0	606	2	US-09-564-418-10	Sequence 10, Appl	783	26	57.8	61	2	US-09-370-767-56918	Sequence 56918, A
711	27	60.0	606	2	US-09-952-559-3	Sequence 3, Appl	784	26	57.8	63	2	US-09-205-258-803	Sequence 803, App
712	27	60.0	612	2	US-09-270-767-32077	Sequence 32077, A	785	26	57.8	63	2	US-09-248-796A-21266	Sequence 21266, A
713	27	60.0	612	2	US-09-270-767-32370	Sequence 32370, A	786	26	57.8	63	2	US-10-004-860-803	Sequence 803, App
714	27	60.0	612	2	US-09-270-767-47294	Sequence 47294, A	787	26	57.8	66	2	US-09-504-615-166	Sequence 166, App
715	27	60.0	612	2	US-09-270-767-47587	Sequence 47587, A	788	26	57.8	66	2	US-10-054-988-166	Sequence 166, App
716	27	60.0	645	2	US-09-477-962-102	Sequence 102, App	789	26	57.8	67	2	US-09-248-796A-21300	Sequence 21300, A
717	27	60.0	660	2	US-09-134-001C-5039	Sequence 5039, App	790	26	57.8	74	2	US-09-640-211A-801	Sequence 801, App
718	27	60.0	669	2	US-09-949-016-6887	Sequence 6887, App	791	26	57.8	75	2	US-09-489-039A-11668	Sequence 11668, A
719	27	60.0	677	2	US-09-949-016-6851	Sequence 6851, App	792	26	57.8	75	2	US-09-248-796A-27035	Sequence 27035, A
720	27	60.0	682	2	US-09-252-991A-30482	Sequence 30482, A	793	26	57.8	79	2	US-09-448-796A-23814	Sequence 23814, A
721	27	60.0	686	2	US-09-328-352-4303	Sequence 4303, Ap	794	26	57.8	80	2	US-09-513-999C-6503	Sequence 6503, Ap
722	27	60.0	702	2	US-09-270-767-4732	Sequence 4732, A	795	26	57.8	83	2	US-09-540-236-3265	Sequence 3265, App
723	27	60.0	743	2	US-10-104-047-2807	Sequence 2807, App	796	26	57.8	84	2	US-09-248-796A-22433	Sequence 22433, A
724	27	60.0	747	2	US-09-489-039A-12856	Sequence 12856, A	797	26	57.8	84	2	US-09-248-796A-27757	Sequence 27757, A
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726	27	60.0	767	2	US-09-252-991A-28484	Sequence 28484, A	799	26	57.8	90	2	US-09-270-767-36945	Sequence 36945, A
727	27	60.0	771	2	US-09-252-991A-20455	Sequence 20455, A	800	26	57.8	90	2	US-09-270-767-52162	Sequence 52162, A
728	27	60.0	773	2	US-09-328-352-8203	Sequence 8203, Ap	801	26	57.8	97	2	US-08-946-026-29	Sequence 32, Appl
729	27	60.0	817	2	US-10-164-595-48	Sequence 48, Appl	802	26	57.8	99	2	US-09-073-009-32	Sequence 32, Appl
730	27	60.0	832	2	US-09-935-430-660	Sequence 660, Appl	803	26	57.8	99	2	US-09-073-009-33	Sequence 33, Appl
731	27	60.0	849	2	US-10-164-595-76	Sequence 76, Appl	804	26	57.8	99	2	US-09-073-009-144	Sequence 144, Appl
732	27	60.0	853	2	US-09-964-956-30	Sequence 30, Appl	805	26	57.8	99	2	US-09-073-010-32	Sequence 32, Appl
733	27	60.0	911	2	US-09-356-952-6	Sequence 6, Appl	806	26	57.8	99	2	US-09-073-010-33	Sequence 33, Appl
734	27	60.0	914	1	US-08-484-105-2	Sequence 2, Appl	807	26	57.8	99	2	US-09-270-767-36678	Sequence 36678, A
735	27	60.0	914	1	US-08-887-518-2	Sequence 2, Appl	808	26	57.8	101	2	US-09-270-767-36678	Sequence 36678, A
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737	27	60.0	947	1	US-09-023-421-2	Sequence 2, Appl	810	26	57.8	102	2	US-09-023-421A-7	Sequence 7, Appl
738	27	60.0	947	1	US-09-032-475-2	Sequence 2, Appl	811	26	57.8	102	2	US-09-282-352A-7	Sequence 7, Appl
739	27	60.0	947	2	US-09-257-703-1	Sequence 1, Appl	812	26	57.8	106	2	US-09-134-000C-4350	Sequence 4350, App
740	27	60.0	947	2	US-09-871-889A-1	Sequence 1, Appl	813	26	57.8	107	2	US-09-248-796A-19746	Sequence 19746, A
741	27	60.0	947	2	US-09-981-397A-18	Sequence 18, Appl	814	26	57.8	114	1	US-08-031-399-3	Sequence 3, Appl
742	27	60.0	955	2	US-09-949-016-8369	Sequence 8369, App	815	26	57.8	114	1	US-08-031-399-6	Sequence 6, Appl
743	27	60.0	968	2	US-08-560-005-7	Sequence 7, Appl	816	26	57.8	114	1	US-08-031-399-12	Sequence 12, Appl
744	27	60.0	968	2	US-09-418-540-7	Sequence 7, Appl	817	26	57.8	114	1	US-08-393-305-3	Sequence 3, Appl
745	27	60.0	968	2	US-09-969-528-7	Sequence 7, Appl	818	26	57.8	114	1	US-08-393-305-6	Sequence 6, Appl
746	27	60.0	1048	2	US-08-887-534A-85	Sequence 85, Appl	819	26	57.8	114	1	US-08-726-817-3	Sequence 3, Appl
747	27	60.0	1048	2	US-09-527-431-85	Sequence 85, Appl	820	26	57.8	114	1	US-08-726-817-6	Sequence 6, Appl
748	27	60.0	1048	2	US-09-446-861-85	Sequence 85, Appl	821	26	57.8	114	1	US-08-504-042-3	Sequence 3, Appl
749	27	60.0	1049	2	US-09-538-092-72	Sequence 72, Appl	822	26	57.8	114	1	US-08-504-042-6	Sequence 6, Appl
750	27	60.0	1118	2	US-09-270-767-2	Sequence 2, Appl	823	26	57.8	114	1	US-08-504-042-12	Sequence 12, Appl
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752	27	60.0	1118	2	US-09-270-767-42703	Sequence 42703, A	825	26	57.8	114	1	US-08-725-965-6	Sequence 6, Appl
753	27	60.0	1122	2	US-09-042-460-2	Sequence 2, Appl	826	26	57.8	114	1	US-08-794-524-3	Sequence 3, Appl
754	27	60.0	1131	2	US-09-487-558B-72	Sequence 72, Appl	827	26	57.8	114	1	US-08-794-524-6	Sequence 6, Appl
755	27	60.0	1239	2	US-09-107-532A-6030	Sequence 6020, Ap	828	26	57.8	114	2	US-09-189-193-3	Sequence 3, Appl
756	27	60.0	1233	2	US-09-354-147C-7	Sequence 7, Appl	829	26	57.8	114	2	US-09-189-193-6	Sequence 6, Appl
757	27	60.0	1243	2	US-09-354-147C-8	Sequence 8, Appl	830	26	57.8	114	2	US-09-462-941-20	Sequence 20, Appl

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832	26	57.8	114	4	PCT-US94-03793-6	Sequence 6, Appli	905	26	57.8	188	2	US-09-248-796A-19379	Sequence 19379, A
833	26	57.8	114	4	PCT-US94-03793-12	Sequence 12, Appli	906	26	57.8	191	2	US-09-902-540-10727	Sequence 10727, A
834	26	57.8	115	4	US-09-270-767-46841	Sequence 46841, A	907	26	57.8	194	2	US-09-248-796A-27883	Sequence 27883, A
835	26	57.8	116	2	US-09-248-796A-20673	Sequence 20673, A	908	26	57.8	197	2	US-09-270-767-61893	Sequence 61893, A
836	26	57.8	119	2	US-09-107-532A-6506	Sequence 6506, Ap	909	26	57.8	199	2	US-09-673-395A-570	Sequence 570, App
837	26	57.8	122	1	US-08-300-903A-3	Sequence 3, Appli	910	26	57.8	200	2	US-09-328-352-4827	Sequence 4827, Ap
838	26	57.8	122	2	US-08-988-197-3	Sequence 3, Appli	911	26	57.8	202	2	US-08-858-307A-332	Sequence 332, App
839	26	57.8	122	2	US-10-385-072-3	Sequence 15, Appli	912	26	57.8	204	2	US-09-248-796A-19696	Sequence 19696, A
840	26	57.8	122	2	US-10-314-739A-15	Sequence 12, Appli	913	26	57.8	205	2	US-09-469-039A-12661	Sequence 12661, A
841	26	57.8	127	2	US-09-855-323-12	Sequence 2959, Ap	914	26	57.8	219	2	US-09-648-004-16	Sequence 16, Appli
842	26	57.8	127	2	US-10-104-047-2959	Sequence 1595, Ap	915	26	57.8	223	2	US-10-272-419-16	Sequence 16, Appli
843	26	57.8	128	2	US-09-583-110-5195	Sequence 3691, Ap	916	26	57.8	223	2	US-09-685-853A-2	Sequence 2, Appli
844	26	57.8	133	2	US-09-134-000C-3691	Sequence 20815, A	917	26	57.8	223	2	US-09-816-494-5	Sequence 10152, A
845	26	57.8	134	2	US-09-342-647-24	Sequence 4920, A	918	26	57.8	225	2	US-09-489-039A-10152	Sequence 24647, A
846	26	57.8	136	2	US-09-252-991A-20815	Sequence 35506, Ap	919	26	57.8	226	2	US-09-252-991A-24647	Sequence 25675, A
847	26	57.8	147	2	US-09-270-767-59273	Sequence 50723, A	920	26	57.8	231	2	US-09-252-991A-25675	Sequence 4538, Ap
848	26	57.8	147	2	US-09-107-433-9920	Sequence 4920, Ap	921	26	57.8	232	2	US-09-134-000C-4038	Sequence 25485, A
849	26	57.8	148	2	US-09-270-767-35506	Sequence 45206, Ap	922	26	57.8	233	2	US-09-583-110-2753	Sequence 2753, Ap
850	26	57.8	148	2	US-09-270-767-50723	Sequence 35506, Ap	923	26	57.8	235	2	US-09-107-433-3701	Sequence 3701, Ap
851	26	57.8	159	1	US-08-414-926A-2	Sequence 50723, A	924	26	57.8	239	2	US-09-107-532A-4636	Sequence 4636, Ap
852	26	57.8	159	1	US-08-414-926A-21	Sequence 21, Appli	925	26	57.8	242	2	US-09-583-110-2741	Sequence 4897, Ap
853	26	57.8	159	1	US-08-926-922-2	Sequence 21, Appli	926	26	57.8	246	2	US-09-107-433-4897	Sequence 6, Appli
854	26	57.8	159	1	US-08-926-922-21	Sequence 21, Appli	927	26	57.8	249	2	US-09-189-760-6	Sequence 6, Appli
855	26	57.8	159	2	US-09-253-682-2	Sequence 21, Appli	928	26	57.8	249	2	US-09-514-422-6	Sequence 385, App
856	26	57.8	159	2	US-09-253-682-21	Sequence 21, Appli	929	26	57.8	255	2	US-09-205-258-385	Sequence 385, App
857	26	57.8	159	2	US-09-527-657-2	Sequence 21, Appli	930	26	57.8	255	2	US-10-004-860-385	Sequence 30184, A
858	26	57.8	159	2	US-09-527-657-21	Sequence 21, Appli	931	26	57.8	255	2	US-09-252-991A-30184	Sequence 30184, A
859	26	57.8	159	2	US-09-892-100-2	Sequence 21, Appli	932	26	57.8	256	2	US-09-583-110-4107	Sequence 4107, Ap
860	26	57.8	159	2	US-09-892-100-21	Sequence 46525, A	933	26	57.8	258	2	US-09-253-991A-16655	Sequence 16655, A
861	26	57.8	159	2	US-09-270-767-46525	Sequence 46525, A	934	26	57.8	259	2	US-09-687-609A-1	Sequence 1, Appli
862	26	57.8	160	2	US-09-270-767-41186	Sequence 41186, A	935	26	57.8	260	2	US-09-107-433-3968	Sequence 2968, Ap
863	26	57.8	160	2	US-09-270-767-56402	Sequence 56402, A	936	26	57.8	263	2	US-09-583-110-5131	Sequence 5131, Ap
864	26	57.8	161	2	US-09-270-767-58198	Sequence 58198, A	937	26	57.8	269	2	US-09-248-796A-19631	Sequence 19631, A
865	26	57.8	162	1	US-08-031-399-2	Sequence 5, Appli	938	26	57.8	270	2	US-09-538-092-530	Sequence 530, App
866	26	57.8	162	1	US-08-031-399-5	Sequence 5, Appli	939	26	57.8	271	2	US-09-134-000C-4879	Sequence 4879, Ap
867	26	57.8	162	1	US-08-393-305-2	Sequence 5, Appli	940	26	57.8	272	2	US-09-927-728-1	Sequence 1, Appli
868	26	57.8	162	1	US-08-393-305-5	Sequence 5, Appli	941	26	57.8	278	2	US-09-248-796A-16532	Sequence 16532, A
869	26	57.8	162	1	US-08-535-733-2	Sequence 9, Appli	942	26	57.8	279	2	US-09-270-767-46255	Sequence 46255, A
870	26	57.8	162	1	US-08-284-393B-9	Sequence 9, Appli	943	26	57.8	282	2	US-09-107-532A-7012	Sequence 7012, Ap
871	26	57.8	162	1	US-08-726-817-2	Sequence 2, Appli	944	26	57.8	285	2	US-09-902-540-16335	Sequence 16335, A
872	26	57.8	162	1	US-08-726-817-5	Sequence 5, Appli	945	26	57.8	288	2	US-09-543-681A-5287	Sequence 5287, Ap
873	26	57.8	162	1	US-08-504-042-2	Sequence 5, Appli	946	26	57.8	292	2	US-09-943-016-8801	Sequence 8801, Ap
874	26	57.8	162	1	US-08-504-042-5	Sequence 5, Appli	947	26	57.8	292	2	US-09-270-767-38714	Sequence 38714, A
875	26	57.8	162	1	US-08-725-969-2	Sequence 2, Appli	948	26	57.8	293	2	US-09-270-767-53931	Sequence 53931, A
876	26	57.8	162	1	US-08-725-969-5	Sequence 5, Appli	949	26	57.8	296	2	US-09-543-681A-4538	Sequence 4538, Ap
877	26	57.8	162	1	US-08-794-524-2	Sequence 2, Appli	950	26	57.8	296	2	US-09-107-433-5004	Sequence 5004, Ap
878	26	57.8	162	1	US-08-794-524-5	Sequence 5, Appli	951	26	57.8	303	2	US-09-540-226-2675	Sequence 2675, Ap
879	26	57.8	162	2	US-08-842-947-6	Sequence 6, Appli	952	26	57.8	304	2	US-09-426-2675	Sequence 541, App
880	26	57.8	162	2	US-09-189-193-2	Sequence 6, Appli	953	26	57.8	306	2	US-09-270-767-35867	Sequence 35867, A
881	26	57.8	162	2	US-09-189-193-5	Sequence 5, Appli	954	26	57.8	306	2	US-09-270-767-49723	Sequence 49723, A
882	26	57.8	162	2	US-09-522-217-113	Sequence 113, App	955	26	57.8	306	2	US-09-270-767-51084	Sequence 51084, A
883	26	57.8	162	2	US-09-437-585-6	Sequence 6, Appli	956	26	57.8	317	2	US-09-489-039A-8270	Sequence 8270, Ap
884	26	57.8	162	2	US-09-923-246-113	Sequence 113, App	957	26	57.8	317	2	US-09-270-767-53507	Sequence 35507, A
885	26	57.8	162	2	US-10-295-723-113	Sequence 113, App	958	26	57.8	318	2	US-09-489-039A-7418	Sequence 7418, Ap
886	26	57.8	162	2	US-09-855-313A-4	Sequence 5964, Ap	959	26	57.8	318	2	US-09-270-767-44254	Sequence 44254, A
887	26	57.8	162	2	US-09-949-016-5964	Sequence 9, Appli	960	26	57.8	322	2	US-09-328-352-5177	Sequence 5177, Ap
888	26	57.8	162	2	US-10-282-622-9	Sequence 9, Appli	961	26	57.8	322	2	US-09-445-515-58	Sequence 58, Appli
889	26	57.8	162	4	PCT-US94-03793-2	Sequence 9, Appli	962	26	57.8	320	2	US-08-445-515-56	Sequence 341, App
890	26	57.8	162	4	PCT-US94-03793-5	Sequence 5, Appli	963	26	57.8	320	2	US-09-940-244-341	Sequence 8, Appli
891	26	57.8	162	4	PCT-US95-08950-9	Sequence 9, Appli	964	26	57.8	323	2	US-09-653-375B-8	Sequence 26561, A
892	26	57.8	162	4	PCT-US96-06423-2	Sequence 2, Appli	965	26	57.8	326	2	US-09-252-991A-18883	Sequence 18883, A
893	26	57.8	163	2	US-09-248-796A-27592	Sequence 27592, A	966	26	57.8	326	2	US-09-248-796A-17864	Sequence 17864, A
894	26	57.8	163	2	US-09-449-016-10336	Sequence 10336, A	967	26	57.8	326	2		
895	26	57.8	163	2	US-09-328-352-5068	Sequence 5068, Ap	968	26	57.8	326	2		
896	26	57.8	163	2	US-09-328-352-5068	Sequence 5068, Ap	969	26	57.8	326	2		
897	26	57.8	169	2	US-09-270-767-51576	Sequence 51576, A	970	26	57.8	326	2		
898	26	57.8	178	2	US-09-252-991A-17622	Sequence 17622, A	971	26	57.8	326	2		
899	26	57.8	179	2	US-09-134-000C-4412	Sequence 4412, Ap	972	26	57.8	326	2		
900	26	57.8	179	2	US-09-352-991A-22149	Sequence 15278, A	973	26	57.8	326	2		
901	26	57.8	180	2	US-09-352-991A-22149	Sequence 22149, A	974	26	57.8	326	2		
902	26	57.8	180	2	US-09-352-991A-22149	Sequence 22149, A	975	26	57.8	326	2		
903	26	57.8	183	2	US-09-352-991A-22149	Sequence 22149, A	976	26	57.8	326	2		

977 26 57.8 366 2 US-09-328-352-7979 Sequence 7979, Ap
978 26 57.8 366 2 US-09-787-069-2 Sequence 2, Appli
979 26 57.8 372 2 US-09-971-020A-7 Sequence 2, Appli
980 26 57.8 373 2 US-09-134-001C-4029 Sequence 4029, Ap
981 26 57.8 374 2 US-09-673-355A-323 Sequence 323, Ap
982 26 57.8 374 2 US-10-104-047-3578 Sequence 3578, Ap
983 26 57.8 378 2 US-09-971-020A-1 Sequence 1, Appli
984 26 57.8 382 2 US-09-543-681A-5208 Sequence 5208, Ap
985 26 57.8 387 2 US-09-488-039A-11998 Sequence 11948, A
986 26 57.8 388 2 US-09-270-767-58024 Sequence 58024, A
987 26 57.8 390 2 US-09-902-540-11238 Sequence 11238, A
988 26 57.8 392 2 US-09-328-352-6498 Sequence 6498, Ap
989 26 57.8 396 2 US-08-875-847B-2 Sequence 2, Appli
990 26 57.8 396 2 US-08-875-847B-4 Sequence 4, Appli
991 26 57.8 396 2 US-09-378-842-2 Sequence 2, Appli
992 26 57.8 396 2 US-09-378-842-4 Sequence 4, Appli
993 26 57.8 396 2 US-09-858-152B-2 Sequence 2, Appli
994 26 57.8 396 2 US-09-858-152B-4 Sequence 4, Appli
995 26 57.8 399 2 US-09-270-767-35763 Sequence 35763, A
996 26 57.8 399 2 US-09-270-767-50980 Sequence 50980, A
997 26 57.8 402 2 US-09-488-039A-12073 Sequence 12073, A
998 26 57.8 405 2 US-09-134-000C-6518 Sequence 6518, Ap
999 26 57.8 409 2 US-09-438-185A-503 Sequence 503, Ap
1000 26 57.8 412 2 US-09-949-016-11488 Sequence 11488, A

ALIGNMENTS

RESULT 1
US-08-934-915-66
; Sequence 66, Application US/08934915
; Patent No. 5932412
; GENERAL INFORMATION:
; APPLICANT: DILLNER, JOAKIM
; APPLICANT: DILLNER, LENA
; APPLICANT: CHENG, HWEI-MING
; TITLE OF INVENTION: SYNTHETIC PEPTIDES OF HUMAN
; TITLE OF INVENTION: PAPILLOMAVIRUS 1, 5, 6, 8,
; TITLE OF INVENTION: 11, 16, 18, 31, 33 AND 56,
; TITLE OF INVENTION: USEFUL IN IMMUNOASSAY FOR
; TITLE OF INVENTION: DIAGNOSTIC PURPOSES
; NUMBER OF SEQUENCES: 193
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MASON & ASSOCIATES, P.A.
; STREET: 1757 U.S. HWY. 19 NORTH, SUITE 500
; CITY: CLEARWATER
; STATE: FLORIDA
; COUNTRY: U.S.A.
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: Windows 3.0
; SOFTWARE: Microsoft Word 6.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/934,915
; FILING DATE: 22-SEP-1997
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 07/949,836
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: LOUISE A. FOUTCH
; REGISTRATION NUMBER: 37,133
; REFERENCE/DOCKET NUMBER: 1946.6
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 813-538-3800
; TELEFAX: 813-538-3820
; TELEX:
; INFORMATION FOR SEQ ID NO: 66:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 29 amino acids
; TYPE: amino acid

; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; US-08-934-915-66

Query Match 100.0%; Score 45; DB 1; Length 29;
Best Local Similarity 100.0%; Pred. No. 0.06;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 FOOLPLNTL 9
Db 10 FOOLPLNTL 18

RESULT 2
US-08-934-915-60
; Sequence 60, Application US/08934915
; Patent No. 5932412
; GENERAL INFORMATION:
; APPLICANT: DILLNER, JOAKIM
; APPLICANT: DILLNER, LENA
; APPLICANT: CHENG, HWEI-MING
; TITLE OF INVENTION: SYNTHETIC PEPTIDES OF HUMAN
; TITLE OF INVENTION: PAPILLOMAVIRUS 1, 5, 6, 8,
; TITLE OF INVENTION: 11, 16, 18, 31, 33 AND 56,
; TITLE OF INVENTION: USEFUL IN IMMUNOASSAY FOR
; TITLE OF INVENTION: DIAGNOSTIC PURPOSES
; NUMBER OF SEQUENCES: 193
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MASON & ASSOCIATES, P.A.
; STREET: 1757 U.S. HWY. 19 NORTH, SUITE 500
; CITY: CLEARWATER
; STATE: FLORIDA
; COUNTRY: U.S.A.
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: Windows 3.0
; SOFTWARE: Microsoft Word 6.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/934,915
; FILING DATE: 22-SEP-1997
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 07/949,836
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: LOUISE A. FOUTCH
; REGISTRATION NUMBER: 37,133
; REFERENCE/DOCKET NUMBER: 1946.6
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 813-538-3800
; TELEFAX: 813-538-3820
; TELEX:
; INFORMATION FOR SEQ ID NO: 60:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 30 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; US-08-934-915-60

Query Match 100.0%; Score 45; DB 1; Length 30;
Best Local Similarity 100.0%; Pred. No. 0.062;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 FOOLPLNTL 9
Db 22 FOOLPLNTL 30

RESULT 3
US-09-485-885-16
; Sequence 16, Application US/09485885

```
; Patent No. 6342224
; GENERAL INFORMATION:
; APPLICANT: Bruck, Claudine
; APPLICANT: Cabazon Silva, Teresa
; APPLICANT: Delisse, Anne-Marie Eva Bernande
; APPLICANT: Gerard, Catherine Marie Ghislaine
; APPLICANT: Lombardo-Bencheikh, Angela
; FILE REFERENCE: B45107
; CURRENT APPLICATION NUMBER: US/09/485,885
; PRIOR FILING DATE: 2000-02-18
; PRIOR APPLICATION NUMBER: PCT/EP98/05285
; PRIOR FILING DATE: 1998-08-17
; PRIOR APPLICATION NUMBER: GB 9717953.5
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 16
; LENGTH: 227
; TYPE: PRT
; ORGANISM: Homo sapien
US-09-485-885-16

Query Match          100.0%; Score 45; DB 2; Length 227;
Best Local Similarity 100.0%; Pred. No. 0.45;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 FOOLPLNTL 9
Db 199 FOOLPLNTL 207

RESULT 4
US-09-485-885-19
; Sequence 19, Application US/09485885
; Patent No. 6342224
; GENERAL INFORMATION:
; APPLICANT: Bruck, Claudine
; APPLICANT: Cabazon Silva, Teresa
; APPLICANT: Delisse, Anne-Marie Eva Bernande
; APPLICANT: Gerard, Catherine Marie Ghislaine
; APPLICANT: Lombardo-Bencheikh, Angela
; FILE REFERENCE: B45107
; CURRENT APPLICATION NUMBER: US/09/485,885
; CURRENT FILING DATE: 2000-02-18
; PRIOR APPLICATION NUMBER: PCT/EP98/05285
; PRIOR FILING DATE: 1998-08-17
; PRIOR APPLICATION NUMBER: GB 9717953.5
; PRIOR FILING DATE: 1997-08-22
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 19
; LENGTH: 227
; TYPE: PRT
; ORGANISM: Homo sapien
US-09-485-885-19

Query Match          100.0%; Score 45; DB 2; Length 227;
Best Local Similarity 100.0%; Pred. No. 0.45;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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; APPLICANT: Inglis, Stephen C.
; APPLICANT: Munro, Alan J.
; TITLE OF INVENTION: Recombinant Virus Vectors Encoding Human
; TITLE OF INVENTION: Papilloma Virus Proteins
; NUMBER OF SEQUENCES: 70
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Walter H. Dreger
; STREET: 4 Embarcadero Center, Suite 3400
; CITY: San Francisco
; STATE: CA
; COUNTRY: USA
; ZIP: 94111
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/117,083
; FILING DATE: 10-SEP-1993
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Dreger, Walter H.
; REGISTRATION NUMBER: 24,190
; REFERENCE/DOCKET NUMBER: A-58783
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 415-761-1989
; TELEFAX: 415-398-3249
; TELEX: 910 277299
; INFORMATION FOR SEQ ID NO: 13:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 272 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; FEATURE:
; NAME/KEY: Protein
; LOCATION: 1..272
; OTHER INFORMATION: /note="Xaa refers to stop codon in
; OTHER INFORMATION: the open reading frame."
US-08-117-083-13

Query Match          100.0%; Score 45; DB 1; Length 272;
Best Local Similarity 100.0%; Pred. No. 0.53;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 FOOLPLNTL 9
Db 249 FOOLPLNTL 257

RESULT 6
US-09-485-885-23
; Sequence 23, Application US/09485885
; Patent No. 6342224
; GENERAL INFORMATION:
; APPLICANT: Bruck, Claudine
; APPLICANT: Cabazon Silva, Teresa
; APPLICANT: Delisse, Anne-Marie Eva Bernande
; APPLICANT: Gerard, Catherine Marie Ghislaine
; APPLICANT: Lombardo-Bencheikh, Angela
; FILE REFERENCE: B45107
; CURRENT APPLICATION NUMBER: US/09/485,885
; CURRENT FILING DATE: 2000-02-18
; PRIOR APPLICATION NUMBER: PCT/EP98/05285
; PRIOR FILING DATE: 1998-08-17
; PRIOR APPLICATION NUMBER: GB 9717953.5
; PRIOR FILING DATE: 1997-08-22
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 23
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; LENGTH: 383
; TYPE: PRT
; ORGANISM: Homo sapien
US-09-485-885-23

Query Match 100.0%; Score 45; DB 2; Length 383;
Best Local Similarity 100.0%; Pred. No. 0.75;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 FOOLPLNTL 9
|:|||||
Db 355 FOOLPLNTL 363

RESULT 7
US-09-543-681A-7245
; Sequence 7245, Application US/09543681A
; Patent No. 6605709
; GENERAL INFORMATION:
; APPLICANT: GARY BRETON
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PROTEUS MIRABILIS
; FILE REFERENCE: 2709.1002-001
; CURRENT APPLICATION NUMBER: US/09/543.681A
; CURRENT FILING DATE: 2000-04-05
; PRIOR APPLICATION NUMBER: US 60/128,706
; PRIOR FILING DATE: 1999-04-09
; NUMBER OF SEQ ID NOS: 8344
; SEQ ID NO 7245
; LENGTH: 448
; TYPE: PRT
; ORGANISM: Proteus mirabilis
US-09-543-681A-7245

Query Match 86.7%; Score 39; DB 2; Length 448;
Best Local Similarity 77.8%; Pred. No. 12;
Matches 7; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 1 FOOLPLNTL 9
|:|||||
Db 90 FOOLPLNTL 98

RESULT 8
US-09-198-452A-1049
; Sequence 1049, Application US/09198452A
; Patent No. 6559294
; GENERAL INFORMATION:
; APPLICANT: Griffiths, R.
; TITLE OF INVENTION: Chlamydia pneumoniae genomic sequence and polypeptides, fragments
; TITLE OF INVENTION: thereof, in particular for the diagnosis, prevention
; FILE REFERENCE: 9710-003-999
; CURRENT APPLICATION NUMBER: US/09/198.452A
; CURRENT FILING DATE: 1998-11-24
; NUMBER OF SEQ ID NOS: 6849
; SEQ ID NO 1049
; LENGTH: 358
; TYPE: PRT
; ORGANISM: Chlamydia pneumoniae
US-09-198-452A-1049

Query Match 80.0%; Score 36; DB 2; Length 358;
Best Local Similarity 77.8%; Pred. No. 35;
Matches 7; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 FOOLPLNTL 9
|:|||||
Db 311 FOOLPLNTL 319

RESULT 9
US-09-438-185A-978

; Sequence 978, Application US/09438185A
; Patent No. 6822071
; GENERAL INFORMATION:
; APPLICANT: Stephens, Richard
; APPLICANT: Mitchell, Wayne
; APPLICANT: Kalman, Sue
; APPLICANT: Davis, Ronald
; TITLE OF INVENTION: Chlamydia Pneumoniae Genome Sequence
; FILE REFERENCE: 018941-000411US
; CURRENT APPLICATION NUMBER: US/09/438.185A
; CURRENT FILING DATE: 2002-03-13
; PRIOR APPLICATION NUMBER: US 60/108,279
; PRIOR FILING DATE: 1998-11-12
; PRIOR APPLICATION NUMBER: US 60/128,606
; PRIOR FILING DATE: 1999-04-08
; NUMBER OF SEQ ID NOS: 1074
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 978
; LENGTH: 358
; TYPE: PRT
; ORGANISM: Chlamydia pneumoniae
; FEATURE:
; OTHER INFORMATION: CPN0977
US-09-438-185A-978

Query Match 80.0%; Score 36; DB 2; Length 358;
Best Local Similarity 77.8%; Pred. No. 35;
Matches 7; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 FOOLPLNTL 9
|:|||||
Db 311 FOOLPLNTL 319

RESULT 10
US-09-270-767-42027
; Sequence 42027, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
; APPLICANT: Homburger et al.
; TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
; FILE REFERENCE: File Reference: 7326-094
; CURRENT APPLICATION NUMBER: US/09/270,767
; CURRENT FILING DATE: 1999-03-17
; NUMBER OF SEQ ID NOS: 62517
; SOFTWARE: Patent Ver. 2.0
; SEQ ID NO 42027
; LENGTH: 153
; TYPE: PRT
; ORGANISM: Drosophila melanogaster
; FEATURE:
; OTHER INFORMATION: Xaa means any amino acid
US-09-270-767-42027

Query Match 75.6%; Score 34; DB 2; Length 153;
Best Local Similarity 75.0%; Pred. No. 37;
Matches 6; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 1 FOOLPLNTL 8
|:|||||
Db 34 FOOLPLNTL 41

RESULT 11
US-09-107-532A-4879
; Sequence 4879, Application US/09107532A
; Patent No. 6583275
; GENERAL INFORMATION:
; APPLICANT: Lynn A Doucette-Stamm and David Bush
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO
; ENTEROCOCCUS FAECIUM FOR DIAGNOSTICS AND THERAPEUTICS
; NUMBER OF SEQUENCES: 7310

CORRESPONDENCE ADDRESS:
ADDRESSEE: GENOME THERAPEUTICS CORPORATION
STREET: 100 Beaver Street
CITY: Waltham
STATE: Massachusetts
COUNTRY: USA
ZIP: 02354
COMPUTER READABLE FORM:
MEDIUM TYPE: CD-ROM ISO9660
COMPUTER: PC
OPERATING SYSTEM: <Unknown>
SOFTWARE: ASCII
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/107,532A
FILING DATE: 30-Jun-1998
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 60/085,598
FILING DATE: 14 May 1998
APPLICATION NUMBER: 60/051571
FILING DATE: July 2, 1997
ATTORNEY/AGENT INFORMATION:
NAME: Ariniello, Pamela Deneka
REGISTRATION NUMBER: 40,489
REFERENCE/DOCKET NUMBER: GTC-012
TELECOMMUNICATION INFORMATION:
TELEPHONE: (781)893-5007
TELEFAX: (781)893-8277
INFORMATION FOR SEQ ID NO: 4879:
SEQUENCE CHARACTERISTICS:
LENGTH: 222 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
HYPOTHETICAL: YES
ORIGINAL SOURCE:
ORGANISM: Enterococcus faecium
FEATURE:
NAME/KEY: misc feature
LOCATION: (B) LOCATION 1...222
SEQUENCE DESCRIPTION: SEQ ID NO: 4879:
US-09-107-532A-4879

Query Match 75.6%; Score 34; DB 2; Length 222;
Best Local Similarity 77.8%; Pred. No. 53;
Matches 7; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 FOQLFNTL 9
|||:|
Db 112 FOQLIDTL 120

RESULT 12
US-09-270-767-44482
Sequence 44482, Application US/09270767
Patent No. 6703491
GENERAL INFORMATION:
APPLICANT: Homburger et al.
TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
FILE REFERENCE: File Reference: 7326-094
CURRENT APPLICATION NUMBER: US/09/270,767
CURRENT FILING DATE: 1999-03-17
NUMBER OF SEQ ID NOS: 62517
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 44482
LENGTH: 469
TYPE: PRT
ORGANISM: Drosophila melanogaster
FEATURE:
OTHER INFORMATION: Xaa means any amino acid
US-09-270-767-44482

Query Match 75.6%; Score 34; DB 2; Length 469;
Best Local Similarity 75.0%; Pred. No. 1.1e+02;

Matches 6; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 1 FOQLFNTL 8
|||:|
Db 183 FOQLFNTL 190

RESULT 13
US-09-134-000C-5327
Sequence 5327, Application US/09134000C
Patent No. 6617156
GENERAL INFORMATION:
APPLICANT: Lynn Doucette-Stamm et al
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO
FILE REFERENCE: ENTEROCOCCUS FAECALIS FOR DIAGNOSTICS AND THERAPEUTICS
FILE REFERENCE: 032796-032
CURRENT APPLICATION NUMBER: US/09/134,000C
CURRENT FILING DATE: 1998-08-13
PRIOR APPLICATION NUMBER: US 60/055,778
PRIOR FILING DATE: 1997-08-15
NUMBER OF SEQ ID NOS: 6812
SOFTWARE: PatentIn version 3.1
SEQ ID NO 5327
LENGTH: 591
TYPE: PRT
ORGANISM: Enterococcus faecalis
US-09-134-000C-5327

Query Match 75.6%; Score 34; DB 2; Length 591;
Best Local Similarity 85.7%; Pred. No. 1.4e+02;
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 FOQLFNTL 7
|||:|
Db 295 FOQLFNTL 301

RESULT 14
US-09-645-593-7
Sequence 7, Application US/09645593
Patent No. 6777591
GENERAL INFORMATION:
APPLICANT: Chaudhary, Sarita
APPLICANT: van Rooijen, Gijb
APPLICANT: Moloney, Maurice
APPLICANT: Singh, Surinder
TITLE OF INVENTION: Plax Seed Specific Promoters
FILE REFERENCE: 9369-151
CURRENT APPLICATION NUMBER: US/09/645,593
CURRENT FILING DATE: 2000-08-25
PRIOR APPLICATION NUMBER: US 60/151,044
PRIOR FILING DATE: 1999-08-27
PRIOR APPLICATION NUMBER: US 60/161,722
PRIOR FILING DATE: 1999-10-27
NUMBER OF SEQ ID NOS: 25
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 7
LENGTH: 174
TYPE: PRT
ORGANISM: Linnus usitatisimum
US-09-645-593-7

Query Match 73.3%; Score 33; DB 2; Length 174;
Best Local Similarity 66.7%; Pred. No. 64;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 FOQLFNTL 9
|||:|
Db 93 FOQLFNTL 101

RESULT 15
US-09-270-767-58952

; Sequence 58952, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
; APPLICANT: Homburger et al.
; TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
; FILE REFERENCE: File Reference: 7326-094
; CURRENT APPLICATION NUMBER: US/09/270,767
; CURRENT FILING DATE: 1999-03-17
; NUMBER OF SEQ ID NOS: 62517
; SOFTWARE: Patentln Ver. 2.0
; SEQ ID NO 58952
; LENGTH: 242
; TYPE: PRT
; ORGANISM: Drosophila melanogaster
; FEATURE:
; OTHER INFORMATION: Xaa means any amino acid
US-09-270-767-58952

Query Match 73.3%; Score 33; DB 2; Length 242;
Best Local Similarity 66.7%; Pred. No. 89;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Qy 1 FOOLPLNTL 9
Db 103 FOOLPLNTMI 111

RESULT 16
US-09-270-767-46066
; Sequence 46066, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
; APPLICANT: Homburger et al.
; TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
; FILE REFERENCE: File Reference: 7326-094
; CURRENT APPLICATION NUMBER: US/09/270,767
; CURRENT FILING DATE: 1999-03-17
; NUMBER OF SEQ ID NOS: 62517
; SOFTWARE: Patentln Ver. 2.0
; SEQ ID NO 46066
; LENGTH: 333
; TYPE: PRT
; ORGANISM: Drosophila melanogaster
; FEATURE:
; OTHER INFORMATION: Xaa means any amino acid
US-09-270-767-46066

Query Match 73.3%; Score 33; DB 2; Length 333;
Best Local Similarity 55.6%; Pred. No. 1.2e+02;
Matches 5; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

Qy 1 FOOLPLNTL 9
Db 134 YSOMFLNTM 142

RESULT 17
US-08-118-270-45
; Sequence 45, Application US/08118270
; Patent No. 5508384
; GENERAL INFORMATION:
; APPLICANT: Murphy, Randall B.
; APPLICANT: Schuster, David I.
; TITLE OF INVENTION: POLYPEPTIDES OF G-COUPLED PROTEIN
; NUMBER OF SEQUENCES: 348
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: BROWDY AND NEIMARK
; STREET: 419 Seventh Street, N.W., Suite 300
; CITY: Washington
; STATE: D.C.
; COUNTRY: USA
; ZIP: 20004

; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentln Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/118,270
; FILING DATE: 09-SEP-1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/943,236
; FILING DATE: 10-SEP-1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Townsend, Kevin G.
; REGISTRATION NUMBER: 34,033
; REFERENCE/DOCKET NUMBER: MURPHY=2A
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 202-628-5197
; TELEFAX: 202-737-3528
; TELEX: 248633
; INFORMATION FOR SEQ ID NO: 45:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 353 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-08-118-270-45

Query Match 73.3%; Score 33; DB 1; Length 353;
Best Local Similarity 66.7%; Pred. No. 1.3e+02;
Matches 6; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

Qy 1 FOOLPLNTL 9
Db 303 FROYFLSTL 311

RESULT 18
PCT-US93-08528-45
; Sequence 45, Application PC/TUS9308528
; GENERAL INFORMATION:
; APPLICANT: New York University
; TITLE OF INVENTION: POLYPEPTIDES OF G-COUPLED PROTEIN
; NUMBER OF SEQUENCES: 348
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: BROWDY AND NEIMARK
; STREET: 419 Seventh Street, N.W., Suite 300
; CITY: Washington
; STATE: D.C.
; COUNTRY: USA
; ZIP: 20004
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentln Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US93/08528
; FILING DATE: 09-SEP-1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/943,236
; FILING DATE: 10-SEP-1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Townsend, Kevin G.
; REGISTRATION NUMBER: 34,033
; REFERENCE/DOCKET NUMBER: MURPHY=2 PCT
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 202-628-5197
; TELEFAX: 202-737-3528
; TELEX: 248633
; INFORMATION FOR SEQ ID NO: 45:
; SEQUENCE CHARACTERISTICS:

LENGTH: 353 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
PCT-US93-08528-45

Query Match 73.3%; Score 33; DB 4; Length 353;
Best Local Similarity 66.7%; Pred. No. 1.3e+02;
Matches 6; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

Qy 1 FQOLPLNTL 9
Db 303 FQOLPLNTL 311

RESULT 19
US-09-134-000C-5525
Sequence 5525, Application US/09134000C
Patent No. 6617156
GENERAL INFORMATION:
APPLICANT: Lynn Doucette-Stamm et al
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO
FILE REFERENCE: 032796-032
CURRENT APPLICATION NUMBER: US/09/134,000C
CURRENT FILING DATE: 1998-08-13
PRIOR APPLICATION NUMBER: US 60/055,778
PRIOR FILING DATE: 1997-08-15
NUMBER OF SEQ ID NOS: 6812
SOFTWARE: PatentIn version 3.1
SEQ ID NO 5525
LENGTH: 619
TYPE: PRT
ORGANISM: Enterococcus faecalis
US-09-134-000C-5525

Query Match 73.3%; Score 33; DB 2; Length 619;
Best Local Similarity 75.0%; Pred. No. 2.2e+02;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 FQOLPLNTL 8
Db 352 FQOLPLNTL 359

RESULT 20
US-09-661-322A-2
Sequence 2, Application US/09661322A
Patent No. 6593293
GENERAL INFORMATION:
APPLICANT: Baum, James A.
APPLICANT: Chu, Chih-Rei
APPLICANT: Donovan, William P.
APPLICANT: Gilmer, Amy J.
APPLICANT: Ruppert, Mark J.
TITLE OF INVENTION: Lipidopteran-Active Bacillus thuringiensis Delta-Endotoxin Compos
FILE REFERENCE: MECO201
CURRENT APPLICATION NUMBER: US/09/661,322A
CURRENT FILING DATE: 2000-09-13
NUMBER OF SEQ ID NOS: 63
SOFTWARE: PatentIn version 3.0
SEQ ID NO 2
LENGTH: 632
TYPE: PRT
ORGANISM: Bacillus thuringiensis
US-09-661-322A-2

Query Match 73.3%; Score 33; DB 2; Length 632;
Best Local Similarity 87.5%; Pred. No. 2.3e+02;
Matches 7; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 2 QOLPLNTL 9
Db 154 QOLPLNTL 161

RESULT 21
US-09-041-991A-8
Sequence 8, Application US/09041991A
Patent No. 6107278
GENERAL INFORMATION:
APPLICANT: Schnepf, H. Ernest
APPLICANT: Narva, Kenneth E.
APPLICANT: Muller-Cohn, Judy
TITLE OF INVENTION: Toxins Active Against Pests
NUMBER OF SEQUENCES: 10
CORRESPONDENCE ADDRESS:
ADDRESSEE: Saliwanchik, Lloyd & Saliwanchik
STREET: 2421 N.W. 41st Street, Suite A-1
CITY: Gainesville
STATE: Florida
COUNTRY: USA
ZIP: 32606
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/041,991A
FILING DATE: 13-MAR-1998
CLASSIFICATION: 514
ATTORNEY/AGENT INFORMATION:
NAME: Sanders, Jay M.
REGISTRATION NUMBER: 39,355
REFERENCE/DOCKET NUMBER: MA-709
TELECOMMUNICATION INFORMATION:
TELEPHONE: (352) 375-8100
TELEFAX: (352) 372-5800
INFORMATION FOR SEQ ID NO: 8:
SEQUENCE CHARACTERISTICS:
LENGTH: 633 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-09-041-991A-8

Query Match 73.3%; Score 33; DB 2; Length 633;
Best Local Similarity 87.5%; Pred. No. 2.3e+02;
Matches 7; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 2 QOLPLNTL 9
Db 154 QOLPLNTL 161

RESULT 22
US-09-041-991A-10
Sequence 10, Application US/09041991A
Patent No. 6107278
GENERAL INFORMATION:
APPLICANT: Schnepf, H. Ernest
APPLICANT: Narva, Kenneth E.
APPLICANT: Muller-Cohn, Judy
TITLE OF INVENTION: Toxins Active Against Pests
NUMBER OF SEQUENCES: 10
CORRESPONDENCE ADDRESS:
ADDRESSEE: Saliwanchik, Lloyd & Saliwanchik
STREET: 2421 N.W. 41st Street, Suite A-1
CITY: Gainesville
STATE: Florida
COUNTRY: USA
ZIP: 32606

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/041,991A
FILING DATE: 13-MAR-1998
CLASSIFICATION: 514
ATTORNEY/AGENT INFORMATION:
NAME: Sanders, Jay M.
REGISTRATION NUMBER: 39,355
REFERENCE/DOCKET NUMBER: MA-709
TELECOMMUNICATION INFORMATION:
TELEPHONE: (352) 375-8100
TELEFAX: (352) 372-5800
INFORMATION FOR SEQ ID NO: 10:
SEQUENCE CHARACTERISTICS:
LENGTH: 633 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-09-041-991A-10

Query Match 73.3%; Score 33; DB 2; Length 633;
Best Local Similarity 87.5%; Pred. No. 2.3e+02;
Matches 7; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2 QOLFLNTL 9
Db 154 QOLFLNRL 161

RESULT 23
US-09-186-002-18
; Sequence 18, Application US/09186002B
; Patent No. 6489542
; GENERAL INFORMATION:
; APPLICANT: Corbin, David R.
; APPLICANT: Romano, Charles P.
; TITLE OF INVENTION: Improved Method for Transforming Plants to Express
; TITLE OF INVENTION: delta-Endotoxins
; FILE REFERENCE: 38-21(13547) US Pat No. 6489542 09/186,002
; CURRENT APPLICATION NUMBER: US/09/186,002B
; CURRENT FILING DATE: 1998-11-04
; NUMBER OF SEQ ID NOS: 18
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 18
; LENGTH: 633
; TYPE: PRT
; ORGANISM: Bacillus thuringiensis
US-09-186-002-18

Query Match 73.3%; Score 33; DB 2; Length 633;
Best Local Similarity 87.5%; Pred. No. 2.3e+02;
Matches 7; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2 QOLFLNTL 9
Db 154 QOLFLNRL 161

RESULT 24
US-09-608-533A-8
; Sequence 8, Application US/09608533A
; Patent No. 6534644
; GENERAL INFORMATION:
; APPLICANT: Schnepf, H. Ernest
; Narva, Kenneth E.
; Muller-Cohn, Judy
; TITLE OF INVENTION: Toxins Active Against Pests
; NUMBER OF SEQUENCES: 10

CORRESPONDENCE ADDRESS:
ADDRESSEE: Saliwanchik, Lloyd & Saliwanchik
STREET: 2421 N.W. 41st Street, Suite A-1
CITY: Gainesville
STATE: Florida
COUNTRY: USA
ZIP: 32606
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/608,533A
FILING DATE: 30-Jun-2000
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 09/041,991
FILING DATE: 13-MARCH-1998
ATTORNEY/AGENT INFORMATION:
NAME: Sanders, Jay M.
REGISTRATION NUMBER: 39,355
REFERENCE/DOCKET NUMBER: MA-709D1
TELECOMMUNICATION INFORMATION:
TELEPHONE: (352) 375-8100
TELEFAX: (352) 372-5800
INFORMATION FOR SEQ ID NO: 8:
SEQUENCE CHARACTERISTICS:
LENGTH: 633 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
SEQUENCE DESCRIPTION: SEQ ID NO: 8:
US-09-608-533A-8

Query Match 73.3%; Score 33; DB 2; Length 633;
Best Local Similarity 87.5%; Pred. No. 2.3e+02;
Matches 7; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2 QOLFLNTL 9
Db 154 QOLFLNRL 161

RESULT 25
US-09-608-533A-10
; Sequence 10, Application US/09608533A
; Patent No. 6534644
; GENERAL INFORMATION:
; APPLICANT: Schnepf, H. Ernest
; Narva, Kenneth E.
; Muller-Cohn, Judy
; TITLE OF INVENTION: Toxins Active Against Pests
; NUMBER OF SEQUENCES: 10
; CORRESPONDENCE ADDRESS:
ADDRESSEE: Saliwanchik, Lloyd & Saliwanchik
STREET: 2421 N.W. 41st Street, Suite A-1
CITY: Gainesville
STATE: Florida
COUNTRY: USA
ZIP: 32606
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/608,533A
FILING DATE: 30-Jun-2000
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 09/041,991

```
; FILING DATE: 13-MARCH-1998
; ATTORNEY/AGENT INFORMATION:
;   NAME: Sanders, Jay M.
;   REGISTRATION NUMBER: 39,355
;   REFERENCE/DOCKET NUMBER: MA-709D1
;   TELECOMMUNICATION INFORMATION:
;     TELEPHONE: (352) 375-8100
;     TELEFAX: (352) 372-5800
;   INFORMATION FOR SEQ ID NO: 10:
;     SEQUENCE CHARACTERISTICS:
;       LENGTH: 633 amino acids
;       TYPE: amino acid
;       STRANDEDNESS: single
;       TOPOLOGY: linear
;     MOLECULE TYPE: peptide
;     SEQUENCE DESCRIPTION: SEQ ID NO: 10:
US-09-608-533A-10

Query Match          73.3%; Score 33; DB 2; Length 633;
Best Local Similarity 87.5%; Pred. No. 2.3e+02;
Matches 7; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      2 QOLPLNTL 9
        |||||
        154 QOLPLNRL 161

RESULT 26
US-09-186-002-2
; Sequence 2, Application US/09186002B
; Patent No. 6489542
; GENERAL INFORMATION:
;   APPLICANT: Corbin, David R.
;   TITLE OF INVENTION: Improved Method for Transforming Plants to Express
;   TITLE OF INVENTION: delta-Endotoxin
;   FILE REFERENCE: 38-21(13547) US Pat No. 6489542 09/186,002
;   CURRENT APPLICATION NUMBER: US/09/186,002B
;   CURRENT FILING DATE: 1998-11-04
;   NUMBER OF SEQ ID NOS: 18
;   SOFTWARE: Patentln Ver. 2.0
;   SEQ ID NO 2
;   LENGTH: 634
;   TYPE: PRT
;   ORGANISM: Bacillus thuringiensis
US-09-186-002-2

Query Match          73.3%; Score 33; DB 2; Length 634;
Best Local Similarity 87.5%; Pred. No. 2.3e+02;
Matches 7; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      2 QOLPLNTL 9
        |||||
        155 QOLPLNRL 162

RESULT 27
US-09-186-002-12
; Sequence 12, Application US/09186002B
; Patent No. 6489542
; GENERAL INFORMATION:
;   APPLICANT: Corbin, David R.
;   TITLE OF INVENTION: Improved Method for Transforming Plants to Express
;   TITLE OF INVENTION: delta-Endotoxin
;   FILE REFERENCE: 38-21(13547) US Pat No. 6489542 09/186,002
;   CURRENT APPLICATION NUMBER: US/09/186,002B
;   CURRENT FILING DATE: 1998-11-04
;   NUMBER OF SEQ ID NOS: 18
;   SOFTWARE: Patentln Ver. 2.0
;   SEQ ID NO 12
;   LENGTH: 634
;   TYPE: PRT
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; ORGANISM: Bacillus thuringiensis
US-09-186-002-12

Query Match          73.3%; Score 33; DB 2; Length 634;
Best Local Similarity 87.5%; Pred. No. 2.3e+02;
Matches 7; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      2 QOLPLNTL 9
        |||||
        155 QOLPLNRL 162

RESULT 28
US-09-041-991A-4
; Sequence 4, Application US/09041991A
; Patent No. 6107278
; GENERAL INFORMATION:
;   APPLICANT: Schnepf, H. Ernest
;   APPLICANT: Narva, Kenneth B.
;   TITLE OF INVENTION: Toxins Active Against Pests
;   NUMBER OF SEQUENCES: 10
;   CORRESPONDENCE ADDRESSES:
;     ADDRESS: Saliwanchik, Lloyd & Saliwanchik
;     STREET: 2421 N.W. 41st Street, Suite A-1
;     CITY: Gainesville
;     STATE: Florida
;     COUNTRY: USA
;     ZIP: 32606
;   COMPUTER READABLE FORM:
;     MEDIUM TYPE: Floppy disk
;     COMPUTER: IBM PC compatible
;     OPERATING SYSTEM: PC-DOS/MS-DOS
;     SOFTWARE: Patentln
;   CURRENT APPLICATION DATA:
;     APPLICATION NUMBER: US/09/041,991A
;     FILING DATE: 13-MAR-1998
;     CLASSIFICATION: 514
;   ATTORNEY/AGENT INFORMATION:
;     NAME: Sanders, Jay M.
;     REGISTRATION NUMBER: 39,355
;     REFERENCE/DOCKET NUMBER: MA-709
;     TELECOMMUNICATION INFORMATION:
;       TELEPHONE: (352) 375-8100
;       TELEFAX: (352) 372-5800
;   INFORMATION FOR SEQ ID NO: 4:
;     SEQUENCE CHARACTERISTICS:
;       LENGTH: 635 amino acids
;       TYPE: amino acid
;       STRANDEDNESS: single
;       TOPOLOGY: linear
;     MOLECULE TYPE: peptide
US-09-041-991A-4

Query Match          73.3%; Score 33; DB 2; Length 635;
Best Local Similarity 87.5%; Pred. No. 2.3e+02;
Matches 7; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      2 QOLPLNTL 9
        |||||
        154 QOLPLNRL 161

RESULT 29
US-09-608-533A-4
; Sequence 4, Application US/09608533A
; Patent No. 6534644
; GENERAL INFORMATION:
;   APPLICANT: Schnepf, H. Ernest
;   APPLICANT: Narva, Kenneth B.
;   APPLICANT: Muller-Cohn, Judy
;   TITLE OF INVENTION: Toxins Active Against Pests
;   NUMBER OF SEQUENCES: 10
```

```

CORRESPONDENCE ADDRESS:
ADDRESSER: Saliwanchik, Lloyd & Saliwanchik
STREET: 2421 N.W. 41st Street, Suite A-1
CITY: Gainesville
STATE: Florida
COUNTRY: USA
ZIP: 32606
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/608,533A
FILING DATE: 30-Jun-2000
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 09/041,991
FILING DATE: 13-MARCH-1998
ATTORNEY/AGENT INFORMATION:
NAME: Sanders, Jay M.
REGISTRATION NUMBER: 39,355
REFERENCE/DOCKET NUMBER: WA-709D1
TELECOMMUNICATION INFORMATION:
TELEPHONE: (352) 375-8100
TELEFAX: (352) 372-5800
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 635 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
SEQUENCE DESCRIPTION: SEQ ID NO: 4:
US-09-608-533A-4

Query Match      73.3%; Score 33; DB 2; Length 635;
Best Local Similarity 87.5%; Pred. No. 2.3e+02;
Matches 7; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      2 QOLFLNTL 9
Db      154 QOLFLNRL 161

RESULT 30
US-09-661-322A-46
Sequence 46, Application US/09661322A
Patent No. 6593293
GENERAL INFORMATION:
APPLICANT: Baum, James A.
APPLICANT: Chu, Chih-Rei
APPLICANT: Donovan, William P.
APPLICANT: Gilmer, Amy J.
APPLICANT: Rupp, Mark J.
TITLE OF INVENTION: Lepidopteran-Active Bacillus thuringiensis Delta-Endotoxin Compos
FILE REFERENCE: MECO201
CURRENT APPLICATION NUMBER: US/09/661,322A
CURRENT FILING DATE: 2000-09-13
NUMBER OF SEQ ID NOS: 63
SOFTWARE: PatentIn version 3.0
SEQ ID NO 46
LENGTH: 635
TYPE: PRT
ORGANISM: Bacillus thuringiensis
US-09-661-322A-46

Query Match      73.3%; Score 33; DB 2; Length 635;
Best Local Similarity 87.5%; Pred. No. 2.3e+02;
Matches 7; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      2 QOLFLNTL 9
Db      154 QOLFLNRL 161
```

```

Db      154 QOLFLNRL 161

RESULT 31
US-08-985-908-24
Sequence 24, Application US/08985908
Patent No. 6004773
GENERAL INFORMATION:
APPLICANT: MASAYUKI ARAKI, MASAKAZU SUGIMOTO, YASUHIKO YOSHIHARA, AND TSUYOSHI NA
TITLE OF INVENTION: METHOD FOR PRODUCING L-LYSINE
NUMBER OF SEQUENCES: 31
CORRESPONDENCE ADDRESS:
ADDRESSER: OBLON, SPIVAK, MCLELLAND, MAIER & NEUSTADT, P.C.
STREET: 1755 S. JEFFERSON DAVIS HIGHWAY, FOURTH FLOOR
CITY: ARLINGTON
COUNTRY: USA
ZIP: 22202
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/985,908
FILING DATE: 05-DEC-1997
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 8-325659
FILING DATE: 05-DEC-1996
ATTORNEY/AGENT INFORMATION:
NAME: NORMAN F. OBLON
REGISTRATION NUMBER: 24,618
TELECOMMUNICATION INFORMATION:
TELEPHONE: 703-413-3000
TELEFAX: 703-413-2220
INFORMATION FOR SEQ ID NO: 24:
SEQUENCE CHARACTERISTICS:
LENGTH: 396 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-985-908-24

Query Match      71.1%; Score 32; DB 2; Length 396;
Best Local Similarity 75.0%; Pred. No. 2.2e+02;
Matches 6; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY      2 QOLFLNTL 9
Db      322 QOLFLNNTL 329

RESULT 32
US-09-328-352-4875
Sequence 4875, Application US/09328352
Patent No. 6562958
GENERAL INFORMATION:
APPLICANT: Gary L. Breton et al.
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO ACINETOBACTER
FILE REFERENCE: GTC99-03PA
CURRENT APPLICATION NUMBER: US/09/328,352
CURRENT FILING DATE: 1999-06-04
NUMBER OF SEQ ID NOS: 4875
SEQ ID NO 4875
LENGTH: 429
TYPE: PRT
ORGANISM: Acinetobacter baumannii
US-09-328-352-4875

Query Match      71.1%; Score 32; DB 2; Length 429;
Best Local Similarity 75.0%; Pred. No. 2.4e+02;
```

Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
Qy 1 FQQLFLNTL 8
Db 378 FQKLVFLNTL 385

RESULT 33

US-09-155-770-7
; Sequence 7, Application US/09155770A
; Patent No. 6300484
; GENERAL INFORMATION:
; APPLICANT: Duhl, David
; TITLE OF INVENTION: DNA ENCODING DP-75 AND A PROCESS FOR ITS USE
; FILE REFERENCE: 200130.418
; CURRENT APPLICATION NUMBER: US/09/155,770A
; CURRENT FILING DATE: 1998-09-30
; NUMBER OF SEQ ID NOS: 7
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 7
; LENGTH: 626
; TYPE: PRT
; ORGANISM: Homo sapien
; US-09-155-770-7

Query Match 71.1%; Score 32; DB 2; Length 626;
Best Local Similarity 66.7%; Pred. No. 3.5e+02;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 1 FQQLFLNTL 9
Db 78 FQKLVFLNTL 86

RESULT 34

US-09-107-532A-4869
; Sequence 4869, Application US/09107532A
; Patent No. 6583275
; GENERAL INFORMATION:
; APPLICANT: Lynn A Doucette-Stamm and David Bush
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO
; ENTEROCOCCUS FAECIUM FOR DIAGNOSTICS AND THERAPEUTICS

NUMBER OF SEQUENCES: 7310

CORRESPONDENCE ADDRESS:

ADDRESS: GENOME THERAPEUTICS CORPORATION

STREET: 100 Beaver Street

CITY: Waltham

STATE: Massachusetts

COUNTRY: USA

ZIP: 02354

COMPUTER READABLE FORM:

MEDIUM TYPE: CD/ROM ISO9660

COMPUTER: PC

OPERATING SYSTEM: <Unknown>

SOFTWARE: ASCII

SOFTWARE: ASCII

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/107,532A

FILING DATE: 30-Jun-1998

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 60/085,598

FILING DATE: 14 May 1998

APPLICATION NUMBER: 60/051571

FILING DATE: July 2, 1997

ATTORNEY/AGENT INFORMATION:

NAME: Arinfeilo, Pamela Deneka

REGISTRATION NUMBER: 40,489

REFERENCE/DOCKET NUMBER: GTC-012

TELECOMMUNICATION INFORMATION:

TELEPHONE: (781)893-5007

TELEFAX: (781)893-8277

INFORMATION FOR SEQ ID NO: 4869:

SEQUENCE CHARACTERISTICS:

LENGTH: 62 amino acids

TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
HYPOTHETICAL: YES
ORIGINAL SOURCE:
ORGANISM: Enterococcus faecium

FEATURE:
NAME/KEY: misc_feature
LOCATION: (B) LOCATION 1...62
SEQUENCE DESCRIPTION: SEQ ID NO: 4869:
US-09-107-532A-4869

Query Match 68.9%; Score 31; DB 2; Length 62;
Best Local Similarity 66.7%; Pred. No. 56;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Qy 1 FQQLFLNTL 9
Db 28 FQKLVFLNTL 36

RESULT 35

US-09-513-999C-8073
; Sequence 8073, Application US/09513999C
; Patent No. 6783961
; GENERAL INFORMATION:
; APPLICANT: Dumas Milne Edwards, J.B.
; APPLICANT: Giordano, J.Y.
; TITLE OF INVENTION: Expressed Sequence Tags and Encoded Human Proteins.
; FILE REFERENCE: 59. US2.REG
; CURRENT APPLICATION NUMBER: US/09/513,999C
; CURRENT FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: US 60/122,487
; PRIOR FILING DATE: 1999-02-26
; NUMBER OF SEQ ID NOS: 36681
; SOFTWARE: Patent.pm
; SEQ ID NO 8073
; LENGTH: 110
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-513-999C-8073

Query Match 68.9%; Score 31; DB 2; Length 110;
Best Local Similarity 55.6%; Pred. No. 98;
Matches 5; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

Qy 1 FQQLFLNTL 9
Db 49 FQKLVFLNTL 57

RESULT 36

US-09-107-532A-3923
; Sequence 3923, Application US/09107532A
; Patent No. 6583275
; GENERAL INFORMATION:
; APPLICANT: Lynn A Doucette-Stamm and David Bush
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO
; ENTEROCOCCUS FAECIUM FOR DIAGNOSTICS AND THERAPEUTICS

NUMBER OF SEQUENCES: 7310

CORRESPONDENCE ADDRESS:

ADDRESS: GENOME THERAPEUTICS CORPORATION

STREET: 100 Beaver Street

CITY: Waltham

STATE: Massachusetts

COUNTRY: USA

ZIP: 02354

COMPUTER READABLE FORM:

MEDIUM TYPE: CD/ROM ISO9660

COMPUTER: PC

OPERATING SYSTEM: <Unknown>

SOFTWARE: ASCII
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/107,532A
FILING DATE: 30-Jun-1998
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 60/085,598
FILING DATE: 14 May 1998
APPLICATION NUMBER: 60/051571
FILING DATE: July 2, 1997
ATTORNEY/AGENT INFORMATION:
NAME: Arinello, Pamela Deneka
REGISTRATION NUMBER: 40,489
REFERENCE/DOCKET NUMBER: GTC-012
TELECOMMUNICATION INFORMATION:
TELEPHONE: (781)893-5007
TELEFAX: (781)893-8277
INFORMATION FOR SEQ ID NO: 3923:
SEQUENCE CHARACTERISTICS:
LENGTH: 123 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
HYPOTHETICAL: YES
ORIGINAL SOURCE:
ORGANISM: Enterococcus faecium
FEATURE:
NAME/KEY: misc feature
LOCATION: (B) LOCATION 1..123
SEQUENCE DESCRIPTION: SEQ ID NO: 3923:
US-09-107-532A-3923

Query Match 68.9%; Score 31; DB 2; Length 123;
Best Local Similarity 75.0%; Pred. No. 1.1e+02;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 2 QOQLNTL 9
Db 96 QOQLNTL 103

RESULT 37
US-09-252-991A-28605
Sequence 28605, Application US/09252991A
Patent No. 6551795
GENERAL INFORMATION:
APPLICANT: Marc J. Rubenfield et al.
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
FILE REFERENCE: 107196.136
CURRENT APPLICATION NUMBER: US/09/252,991A
CURRENT FILING DATE: 1999-02-18
PRIOR APPLICATION NUMBER: US 60/074,788
PRIOR FILING DATE: 1998-02-18
PRIOR APPLICATION NUMBER: US 60/094,190
PRIOR FILING DATE: 1998-07-27
NUMBER OF SEQ ID NOS: 33142
SEQ ID NO 28605
LENGTH: 303
TYPE: PRT
ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-28605

Query Match 68.9%; Score 31; DB 2; Length 303;
Best Local Similarity 75.0%; Pred. No. 2.6e+02;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 2 QOQLNTL 9
Db 98 QOQLNTL 105

RESULT 38
US-10-166-653-6

Sequence 6, Application US/10166653
Patent No. 691332
GENERAL INFORMATION:
APPLICANT: USUDA, Yoshihiro
APPLICANT: NISHIO, Yosuke
APPLICANT: YASUEDA, Hisashi
APPLICANT: SUGIMOTO, Shinichi
TITLE OF INVENTION: POLYNUCLEOTIDES ENCODING POLYPEPTIDES INVOLVED IN ONE-CARBON COME
FILE REFERENCE: 211826U50
CURRENT APPLICATION NUMBER: US/10/166,653
CURRENT FILING DATE: 2002-06-12
NUMBER OF SEQ ID NOS: 40
SOFTWARE: Patentin version 3.1
SEQ ID NO 6
LENGTH: 324
TYPE: PRT
ORGANISM: Methylophilus methylotrophus
US-10-166-653-6

Query Match 68.9%; Score 31; DB 2; Length 324;
Best Local Similarity 75.0%; Pred. No. 2.8e+02;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 FOQLFNT 8
Db 242 FOQLFNT 249

RESULT 39
US-08-471-033-40
Sequence 40, Application US/08471033
Patent No. 5770696
GENERAL INFORMATION:
APPLICANT: Warren, Gregory W
APPLICANT: Koziel, Michael G
APPLICANT: Mullins, Marsha A
APPLICANT: Nye, Gordon J
APPLICANT: Carr, Brian
APPLICANT: Desai, Nalini M
APPLICANT: Kostichka, N. Kristy
APPLICANT: Duck, Nicholas B
APPLICANT: Estruch, Juan J
TITLE OF INVENTION: No. 5770696el Pesticidal Proteins and Strains
NUMBER OF SEQUENCES: 50
CORRESPONDENCE ADDRESS:
ADDRESSEE: CIBA-GEIGY Corporation
STREET: 7 Skyline Drive
CITY: Hawthorne
STATE: NY
COUNTRY: USA
ZIP: 10532
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30B
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/471,033
FILING DATE:
CLASSIFICATION: 530
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/314,594
FILING DATE: 09-SEP-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/218,018
FILING DATE: 23-MAR-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/037,057
FILING DATE: 25-MAR-1993
ATTORNEY/AGENT INFORMATION:
NAME: Pace, Gary M.
REGISTRATION NUMBER: P-40,403

REFERENCE/DOCKET NUMBER: CGC 1695/CIP3/DIV7 - SOLV3
TELECOMMUNICATION INFORMATION:
TELEPHONE: 919-541-8582
TELEFAX: 919-541-8689
INFORMATION FOR SEQ ID NO: 40:
SEQUENCE CHARACTERISTICS:
LENGTH: 410 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-471-033-40

Query Match 68.9%; Score 31; DB 1; Length 410;
Best Local Similarity 55.6%; Pred. No. 3.6e+02;
Matches 5; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 1 FOLPLNTL 9
Db 318 FEEQPLNTI 326

RESULT 40
US-08-471-033-43
Sequence 43, Application US/08471033
Patent No. 5770696
GENERAL INFORMATION:
APPLICANT: Warren, Gregory W
APPLICANT: Kozziel, Michael G
APPLICANT: Mullins, Martha A
APPLICANT: Nye, Gordon J
APPLICANT: Carr, Brian
APPLICANT: Desai, Nalini M
APPLICANT: Kostichka, N. Kristy
APPLICANT: Duck, Nicholas B
APPLICANT: Estruch, Juan J
TITLE OF INVENTION: No. 5770696e1 Pesticidal Proteins and Strains
NUMBER OF SEQUENCES: 50
CORRESPONDENCE ADDRESS:
ADDRESSEE: CIBA-GEIGY Corporation
STREET: 7 Skyline Drive
CITY: Hawthorne
STATE: NY
COUNTRY: USA
ZIP: 10532
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30B
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/471,033
FILING DATE:
CLASSIFICATION: 530
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/314,594
FILING DATE: 09-SEP-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/218,018
FILING DATE: 23-MAR-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/037,057
FILING DATE: 25-MAR-1993
ATTORNEY/AGENT INFORMATION:
NAME: Pace, Gary M.
REGISTRATION NUMBER: P-40,403
REFERENCE/DOCKET NUMBER: CGC 1695/CIP3/DIV7 - SOLV3
TELECOMMUNICATION INFORMATION:
TELEPHONE: 919-541-8582
TELEFAX: 919-541-8689
INFORMATION FOR SEQ ID NO: 43:
SEQUENCE CHARACTERISTICS:
LENGTH: 410 amino acids
TYPE: amino acid

TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-471-033-43

Query Match 68.9%; Score 31; DB 1; Length 410;
Best Local Similarity 55.6%; Pred. No. 3.6e+02;
Matches 5; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 1 FOLPLNTL 9
Db 318 FEEQPLNTI 326

RESULT 41
US-08-471-044-40
Sequence 40, Application US/08471044
Patent No. 5840868
GENERAL INFORMATION:
APPLICANT: Warren, Gregory W
APPLICANT: Kozziel, Michael G
APPLICANT: Mullins, Martha A
APPLICANT: Nye, Gordon J
APPLICANT: Carr, Brian
APPLICANT: Desai, Nalini M
APPLICANT: Kostichka, N. Kristy
APPLICANT: Duck, Nicholas B
APPLICANT: Estruch, Juan J
TITLE OF INVENTION: No. 5840868e1 Pesticidal Proteins and Strains
NUMBER OF SEQUENCES: 50
CORRESPONDENCE ADDRESS:
ADDRESSEE: CIBA-GEIGY Corporation
STREET: 7 Skyline Drive
CITY: Hawthorne
STATE: NY
COUNTRY: USA
ZIP: 10532
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30B
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/471,044
FILING DATE: 06-JUN-1995
CLASSIFICATION: 800
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/463,483
FILING DATE: 05-JUN-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/314,594
FILING DATE: 09-SEP-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/218,018
FILING DATE: 23-MAR-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/037,057
FILING DATE: 25-MAR-1993
ATTORNEY/AGENT INFORMATION:
NAME: Pace, Gary M.
REGISTRATION NUMBER: 40,403
REFERENCE/DOCKET NUMBER: CGC 1695/CIP3/DIV6 - SOLV3
TELECOMMUNICATION INFORMATION:
TELEPHONE: 919-541-8582
TELEFAX: 919-541-8689
INFORMATION FOR SEQ ID NO: 40:
SEQUENCE CHARACTERISTICS:
LENGTH: 410 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-471-044-40

Query Match 68.9%; Score 31; DB 1; Length 410;


```
APPLICANT: Warren, Gregory W
APPLICANT: Koziel, Michael G
APPLICANT: Mullins, Martha A
APPLICANT: Nye, Gordon J
APPLICANT: Carr, Brian
APPLICANT: Desai, Nalini M
APPLICANT: Kostiychka, N. Kristy
APPLICANT: Duck, Nicholas B
APPLICANT: Estruch, Juan J
TITLE OF INVENTION: No. 5849870e1 Pesticidal Proteins and Strains
NUMBER OF SEQUENCES: 50
CORRESPONDENCE ADDRESS:
ADDRESS: CIBA-GEIGY Corporation
STREET: 7 Skyline Drive
CITY: Hawthorne
STATE: NY
COUNTRY: USA
ZIP: 10532
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30B
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/463,483A
FILING DATE:
CLASSIFICATION: 530
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/314,594
FILING DATE: 09-SEP-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/218,018
FILING DATE: 23-MAR-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/037,057
FILING DATE: 25-MAR-1993
ATTORNEY/AGENT INFORMATION:
NAME: Sprull, W. Murray
REGISTRATION NUMBER: 32,943
REFERENCE/DOCKET NUMBER: CGC 1695/CIP3
TELECOMMUNICATION INFORMATION:
TELEPHONE: 919-541-8615
TELEFAX: 919-541-8689
INFORMATION FOR SEQ ID NO: 43:
SEQUENCE CHARACTERISTICS:
LENGTH: 410 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-463-483A-43

Query Match      68.9%; Score 31; DB 1; Length 410;
Best Local Similarity 55.6%; Pred. No. 3.6e+02;
Matches 5; Conservative 3; Mismatches 1; Indels 0; Gaps 0;
```

QY 1 FQOLPLNTL 9
DB 318 FQOLPLNTL 326

```
RESULT 45
US-08-471-046A-40
Sequence 40, Application US/08471046A
Patent No. 5866326
GENERAL INFORMATION:
APPLICANT: Warren, Gregory W
APPLICANT: Koziel, Michael G
APPLICANT: Mullins, Martha A
APPLICANT: Nye, Gordon J
APPLICANT: Carr, Brian
APPLICANT: Desai, Nalini M
APPLICANT: Kostiychka, N. Kristy
APPLICANT: Duck, Nicholas B
```

```
APPLICANT: Estruch, Juan J
TITLE OF INVENTION: Method For Isolating Vegetative Insecticidal
TITLE OF INVENTION: Protein Genes
NUMBER OF SEQUENCES: 50
CORRESPONDENCE ADDRESS:
ADDRESS: No. 5866326artis Corporation
STREET: 1054 Cornwalis Road
CITY: Research Triangle Park
STATE: NC
COUNTRY: USA
ZIP: 27709
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30B
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/471,046A
FILING DATE: 06-JUN-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/463,483
FILING DATE: 05-JUN-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/314,594
FILING DATE: 09-SEP-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/218,018
FILING DATE: 23-MAR-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/037,057
FILING DATE: 25-MAR-1993
ATTORNEY/AGENT INFORMATION:
NAME: Meigs, J. Timothy
REGISTRATION NUMBER: 38,241
REFERENCE/DOCKET NUMBER: CGC1695/CIP3/DIV8 - SOLV4
TELECOMMUNICATION INFORMATION:
TELEPHONE: 919-541-8587
TELEFAX: 919-541-8689
INFORMATION FOR SEQ ID NO: 40:
SEQUENCE CHARACTERISTICS:
LENGTH: 410 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-471-046A-40

Query Match      68.9%; Score 31; DB 1; Length 410;
Best Local Similarity 55.6%; Pred. No. 3.6e+02;
Matches 5; Conservative 3; Mismatches 1; Indels 0; Gaps 0;
```

QY 1 FQOLPLNTL 9
DB 318 FQOLPLNTL 326

```
RESULT 46
US-08-471-046A-43
Sequence 43, Application US/08471046A
Patent No. 5866326
GENERAL INFORMATION:
APPLICANT: Warren, Gregory W
APPLICANT: Koziel, Michael G
APPLICANT: Mullins, Martha A
APPLICANT: Nye, Gordon J
APPLICANT: Carr, Brian
APPLICANT: Desai, Nalini M
APPLICANT: Kostiychka, N. Kristy
APPLICANT: Duck, Nicholas B
APPLICANT: Estruch, Juan J
TITLE OF INVENTION: Method For Isolating Vegetative Insecticidal
TITLE OF INVENTION: Protein Genes
NUMBER OF SEQUENCES: 50
```

```

CORRESPONDENCE ADDRESS:
ADDRESSEE: No. 5866326artis Corporation
STREET: 3054 Cornwallis Road
CITY: Research Triangle Park
STATE: NC
COUNTRY: USA
ZIP: 27709
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30B
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/471,046A
FILING DATE: 06-JUN-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/463,483
FILING DATE: 05-JUN-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/314,594
FILING DATE: 09-SEP-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/218,018
FILING DATE: 23-MAR-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/037,057
FILING DATE: 25-MAR-1993
ATTORNEY/AGENT INFORMATION:
NAME: Meigs, J. Timothy
REGISTRATION NUMBER: 38,241
REFERENCE/DOCKET NUMBER: CGC1695/CIP3/DIV8 - SOLV4
TELECOMMUNICATION INFORMATION:
TELEPHONE: 919-541-8689
FAX: 919-541-8587
INFORMATION FOR SEQ ID NO: 43:
SEQUENCE CHARACTERISTICS:
LENGTH: 410 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-471-046A-43

Query Match      68.9%; Score 31; DB 1; Length 410;
Best Local Similarity 55.6%; Pred. No. 3.6e+02;
Matches 5; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY      1 FOOLPLNTL 9
Db      318 FEEOPLNTI 326

RESULT 47
US-08-470-566B-40
; Sequence 40, Application US/08470566B
; Patent No. 5872212
; GENERAL INFORMATION:
; APPLICANT: Warren, Gregory W
; APPLICANT: Koziele, Michael G
; APPLICANT: Mullins, Martha A
; APPLICANT: Nye, Gordon J
; APPLICANT: Carr, Brian
; APPLICANT: Desai, Nalini M
; APPLICANT: Kostichka, N. Kristy
; APPLICANT: Duck, Nicholas B
; APPLICANT: Estruch, Juan J
; TITLE OF INVENTION: No. 5872212el Pesticidal Proteins and Strains
; NUMBER OF SEQUENCES: 52
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: No. 5872212artis Corporation
; STREET: 3054 Cornwallis Road
; CITY: Research Triangle Park
; STATE: NC
```

```

COUNTRY: USA
ZIP: 27709
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30B
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/470,566B
FILING DATE: 06-JUN-1995
CLASSIFICATION: 530
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/463,483
FILING DATE: 05-JUN-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/314,594
FILING DATE: 09-SEP-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/218,018
FILING DATE: 23-MAR-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/037,057
FILING DATE: 25-MAR-1993
ATTORNEY/AGENT INFORMATION:
NAME: Meigs, J. Timothy
REGISTRATION NUMBER: 38,241
REFERENCE/DOCKET NUMBER: CGC1695/CIP3/DIV4 - SOLV4
TELECOMMUNICATION INFORMATION:
TELEPHONE: 919-541-8689
FAX: 919-541-8587
INFORMATION FOR SEQ ID NO: 40:
SEQUENCE CHARACTERISTICS:
LENGTH: 410 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-470-566B-40

Query Match      68.9%; Score 31; DB 1; Length 410;
Best Local Similarity 55.6%; Pred. No. 3.6e+02;
Matches 5; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY      1 FOOLPLNTL 9
Db      318 FEEOPLNTI 326

RESULT 48
US-08-470-566B-43
; Sequence 43, Application US/08470566B
; Patent No. 5872212
; GENERAL INFORMATION:
; APPLICANT: Warren, Gregory W
; APPLICANT: Koziele, Michael G
; APPLICANT: Mullins, Martha A
; APPLICANT: Nye, Gordon J
; APPLICANT: Carr, Brian
; APPLICANT: Desai, Nalini M
; APPLICANT: Kostichka, N. Kristy
; APPLICANT: Duck, Nicholas B
; APPLICANT: Estruch, Juan J
; TITLE OF INVENTION: No. 5872212el Pesticidal Proteins and Strains
; NUMBER OF SEQUENCES: 52
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: No. 5872212artis Corporation
; STREET: 3054 Cornwallis Road
; CITY: Research Triangle Park
; STATE: NC
; COUNTRY: USA
; ZIP: 27709
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
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OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30B
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/470,566B
FILING DATE: 06-JUN-1995
CLASSIFICATION: 530
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/463,483
FILING DATE: 05-JUN-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/314,594
FILING DATE: 09-SEP-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/218,018
FILING DATE: 23-MAR-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/037,057
FILING DATE: 25-MAR-1993
ATTORNEY/AGENT INFORMATION:
NAME: Meigs, J. Timothy
REGISTRATION NUMBER: 38,241
REFERENCE/DOCKET NUMBER: CGC1695/CIP3/DIV4 - SQLV4
TELEPHONE: 919-541-8587
TELEFAX: 919-541-8689
INFORMATION FOR SEQ ID NO: 43:
SEQUENCE CHARACTERISTICS:
LENGTH: 410 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-470-566B-43

Query Match 68.9%; Score 31; DB 1; Length 410;
Best Local Similarity 55.6%; Pred. No. 3.6e+02;
Matches 5; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 1 FOOLPLNTL 9
DB 318 FEEQPLNTI 326

RESULT 49
US-08-469-334-40
Sequence 40, Application US/08469334
Patent No. 5990383
GENERAL INFORMATION:
APPLICANT: Warren, Gregory W
APPLICANT: Kozziel, Michael G
APPLICANT: Mullins, Martha A
APPLICANT: Nye, Gordon J
APPLICANT: Carr, Brian
APPLICANT: Desai, Nalin M
APPLICANT: Kostichka, N. Kristy
APPLICANT: Duck, Nicholas B
APPLICANT: Estruch, Juan J
TITLE OF INVENTION: No. 5990383el Pesticidal Proteins and Strains
NUMBER OF SEQUENCES: 50
CORRESPONDENCE ADDRESS:
ADDRESSEE: CIBA-GEIGY Corporation
STREET: 7 Skyline Drive
CITY: Hawthorne
STATE: NY
COUNTRY: USA
ZIP: 10532
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30B
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/469,334
FILING DATE: 06-JUN-1995

CLASSIFICATION: 800
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/463,483
FILING DATE:
APPLICATION NUMBER: US 08/314,594
FILING DATE: 09-SEP-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/218,018
FILING DATE: 23-MAR-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/037,057
FILING DATE: 25-MAR-1993
ATTORNEY/AGENT INFORMATION:
NAME: Sprull, W. Murray
REGISTRATION NUMBER: 32,943
REFERENCE/DOCKET NUMBER: CGC 1695/CIP3
TELEPHONE: 919-541-8615
TELEFAX: 919-541-8689
INFORMATION FOR SEQ ID NO: 40:
SEQUENCE CHARACTERISTICS:
LENGTH: 410 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-469-334-40

Query Match 68.9%; Score 31; DB 1; Length 410;
Best Local Similarity 55.6%; Pred. No. 3.6e+02;
Matches 5; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 1 FOOLPLNTL 9
DB 318 FEEQPLNTI 326

RESULT 50
US-08-469-334-43
Sequence 43, Application US/08469334
Patent No. 5990383
GENERAL INFORMATION:
APPLICANT: Warren, Gregory W
APPLICANT: Kozziel, Michael G
APPLICANT: Mullins, Martha A
APPLICANT: Nye, Gordon J
APPLICANT: Carr, Brian
APPLICANT: Desai, Nalin M
APPLICANT: Kostichka, N. Kristy
APPLICANT: Duck, Nicholas B
APPLICANT: Estruch, Juan J
TITLE OF INVENTION: No. 5990383el Pesticidal Proteins and Strains
NUMBER OF SEQUENCES: 50
CORRESPONDENCE ADDRESS:
ADDRESSEE: CIBA-GEIGY Corporation
STREET: 7 Skyline Drive
CITY: Hawthorne
STATE: NY
COUNTRY: USA
ZIP: 10532
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30B
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/469,334
FILING DATE: 06-JUN-1995
CLASSIFICATION: 800
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/463,483
FILING DATE:
APPLICATION NUMBER: US 08/314,594
FILING DATE: 09-SEP-1994

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; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/218,018
; FILING DATE: 23-MAR-1994
; PRIOR APPLICATION DATA: US 08/037,057
; APPLICATION NUMBER: US 08/037,057
; FILING DATE: 25-MAR-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Spruill, W. Murray
; REGISTRATION NUMBER: 32,943
; REFERENCE/DOCKET NUMBER: CGC 1695/CIP3
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 919-541-8615
; TELEFAX: 919-541-8689
; INFORMATION FOR SEQ ID NO: 43:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 410 amino acids
; TYPE: amino acid
; TOPOLOGY: 1linear
; MOLECULE TYPE: protein
; US-08-469-334-43

Query Match 68.9%; Score 31; DB 1; Length 410;
Best Local Similarity 55.6%; Pred. No. 3.6e+02;
Matches 5; Conservative 3; Mismatches 1; Indels 0; Gaps 0;
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|::|||:
Db 318 FEEQFLNTI 326

Search completed: May 5, 2006, 03:13:13
Job time : 23.7 secs

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OM protein - protein search, using sw model

Run on: May 5, 2006, 07:56:48 ; Search time 56 Seconds
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Title: US-08-170-344-31
Perfect score: 45
Sequence: 1 FOOLFLNTL 9

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Total number of hits satisfying chosen parameters: 1867569

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Post-processing: Minimum Match 0%
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Listing first 1000 summaries

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Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

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7	45	100.0	105	US-10-433-091-4	Sequence 4, App
8	45	100.0	118	US-10-472-724-8	Sequence 8, App
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92	33	73.3	634	US-11-067-557-86	Sequence 86, App
93	33	73.3	634	US-11-067-557-88	Sequence 88, App
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103	33	73.3	634	6	US-11-067-557-100	Sequence 100, App	176	33	73.3	634	6	US-11-067-557-250	Sequence 250, App
104	33	73.3	634	6	US-11-067-557-102	Sequence 102, App	177	33	73.3	634	6	US-11-067-557-252	Sequence 252, App
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113	33	73.3	634	6	US-11-067-557-120	Sequence 120, App	186	32	71.1	255	4	US-10-103-313-488	Sequence 488, App
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118	33	73.3	634	6	US-11-067-557-130	Sequence 130, App	191	32	71.1	497	4	US-10-156-761-8691	Sequence 8691, Ap
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121	33	73.3	634	6	US-11-067-557-136	Sequence 136, App	194	32	71.1	660	5	US-10-450-763-34040	Sequence 34040, A
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142	33	73.3	634	6	US-11-067-557-180	Sequence 180, App	215	31	68.9	288	3	US-09-815-242-5385	Sequence 5385, Ap
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145	33	73.3	634	6	US-11-067-557-186	Sequence 186, App	218	31	68.9	324	4	US-10-166-653-6	Sequence 6, App11
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151	33	73.3	634	6	US-11-067-557-198	Sequence 198, App	224	31	68.9	508	4	US-10-282-122A-43728	Sequence 43728, A
152	33	73.3	634	6	US-11-067-557-200	Sequence 200, App	225	31	68.9	527	4	US-10-282-122A-48962	Sequence 48962, A
153	33	73.3	634	6	US-11-067-557-202	Sequence 202, App	226	31	68.9	611	4	US-10-467-397-4	Sequence 4, App11
154	33	73.3	634	6	US-11-067-557-204	Sequence 204, App	227	31	68.9	640	4	US-10-282-122A-78365	Sequence 78365, A
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156	33	73.3	634	6	US-11-067-557-208	Sequence 208, App	229	31	68.9	651	4	US-10-614-076-52	Sequence 52, App1
157	33	73.3	634	6	US-11-067-557-210	Sequence 210, App	230	31	68.9	651	4	US-10-614-076-56	Sequence 56, App1
158	33	73.3	634	6	US-11-067-557-214	Sequence 214, App	231	31	68.9	651	4	US-10-614-076-58	Sequence 58, App1
159	33	73.3	634	6	US-11-067-557-216	Sequence 216, App	232	31	68.9	652	4	US-10-332-665-2	Sequence 2, App11
160	33	73.3	634	6	US-11-067-557-218	Sequence 218, App	233	31	68.9	652	4	US-10-332-665-6	Sequence 6, App11
161	33	73.3	634	6	US-11-067-557-220	Sequence 220, App	234	31	68.9	652	4	US-10-614-076-6	Sequence 2, App11
162	33	73.3	634	6	US-11-067-557-222	Sequence 222, App	235	31	68.9	652	4	US-10-614-076-6	Sequence 4, App11
163	33	73.3	634	6	US-11-067-557-224	Sequence 224, App	236	31	68.9	652	4	US-10-614-076-6	Sequence 6, App11
164	33	73.3	634	6	US-11-067-557-226	Sequence 226, App	237	31	68.9	652	4	US-10-614-076-8	Sequence 8, App11
165	33	73.3	634	6	US-11-067-557-228	Sequence 228, App	238	31	68.9	652	4	US-10-614-076-10	Sequence 10, App1
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167	33	73.3	634	6	US-11-067-557-232	Sequence 232, App	240	31	68.9	652	4	US-10-614-076-14	Sequence 14, App1
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169	33	73.3	634	6	US-11-067-557-236	Sequence 236, App	242	31	68.9	652	4	US-10-614-076-18	Sequence 18, App1
170	33	73.3	634	6	US-11-067-557-238	Sequence 238, App	243	31	68.9	652	4	US-10-614-076-20	Sequence 20, App1
171	33	73.3	634	6	US-11-067-557-240	Sequence 240, App	244	31	68.9	652	4	US-10-614-076-22	Sequence 22, App1
172	33	73.3	634	6	US-11-067-557-242	Sequence 242, App	245	31	68.9	652	4	US-10-614-076-24	Sequence 24, App1
173	33	73.3	634	6	US-11-067-557-244	Sequence 244, App	246	31	68.9	652	4	US-10-614-076-26	Sequence 26, App1

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249	31	68.9	652	4	US-10-614-076-32	Sequence 32, Appl	322	31	68.9	989	4	US-10-188-296-23	Sequence 23, Appl
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251	31	68.9	652	4	US-10-614-076-36	Sequence 36, Appl	324	31	68.9	989	4	US-10-188-941-23	Sequence 23, Appl
252	31	68.9	652	4	US-10-614-076-38	Sequence 38, Appl	325	31	68.9	989	4	US-10-188-297-4	Sequence 4, Appl
253	31	68.9	652	4	US-10-614-076-40	Sequence 40, Appl	326	31	68.9	989	4	US-10-188-297-23	Sequence 23, Appl
254	31	68.9	652	4	US-10-614-076-42	Sequence 42, Appl	327	31	68.9	989	4	US-10-174-613-6	Sequence 6, Appl
255	31	68.9	652	4	US-10-614-076-44	Sequence 44, Appl	328	31	68.9	989	4	US-10-369-022-30	Sequence 30, Appl
256	31	68.9	652	4	US-10-614-076-46	Sequence 46, Appl	329	31	68.9	989	4	US-10-768-158-32	Sequence 32, Appl
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258	31	68.9	652	4	US-10-614-076-50	Sequence 50, Appl	331	31	68.9	1057	4	US-10-149-310-202	Sequence 202, App
259	31	68.9	652	4	US-10-614-076-54	Sequence 54, Appl	332	31	68.9	1283	4	US-10-369-493-13367	Sequence 13367, A
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261	31	68.9	652	4	US-10-614-076-62	Sequence 62, Appl	334	31	68.9	2223	5	US-10-628-088-408	Sequence 408, App
262	31	68.9	652	4	US-10-614-076-64	Sequence 64, Appl	335	31	68.9	2223	5	US-10-628-088-408	Sequence 408, App
263	31	68.9	652	4	US-10-614-076-66	Sequence 66, Appl	336	31	68.9	2310	4	US-10-789-400-15	Sequence 15, Appl
264	31	68.9	652	4	US-10-614-076-68	Sequence 68, Appl	337	30	66.7	41	4	US-10-425-115-126743	Sequence 10, Appl
265	31	68.9	652	4	US-10-614-076-98	Sequence 98, App	338	30	66.7	53	4	US-10-424-599-256041	Sequence 256041, A
266	31	68.9	652	4	US-10-614-076-108	Sequence 108, App	339	30	66.7	53	4	US-10-424-599-274288	Sequence 274288, A
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275	31	68.9	653	4	US-10-232-665-18	Sequence 18, Appl	348	30	66.7	84	4	US-10-424-599-339532	Sequence 151243, A
276	31	68.9	653	4	US-10-232-665-20	Sequence 20, Appl	349	30	66.7	98	4	US-10-424-599-151243	Sequence 142432, A
277	31	68.9	653	4	US-10-232-665-22	Sequence 22, Appl	350	30	66.7	118	4	US-09-855-604-557	Sequence 557, App
278	31	68.9	653	4	US-10-232-665-24	Sequence 24, Appl	351	30	66.7	119	3	US-09-855-604-557	Sequence 557, App
279	31	68.9	653	4	US-10-232-665-37	Sequence 37, Appl	352	30	66.7	119	3	US-10-767-701-44140	Sequence 44140, A
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282	31	68.9	653	4	US-10-188-308-21	Sequence 21, Appl	355	30	66.7	205	4	US-10-450-753-47504	Sequence 47504, A
283	31	68.9	960	4	US-10-188-296-21	Sequence 21, Appl	356	30	66.7	208	5	US-10-450-753-48506	Sequence 48506, A
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289	31	68.9	962	4	US-10-188-296-3	Sequence 3, Appl	362	30	66.7	373	5	US-10-408-765A-1183	Sequence 48861, A
290	31	68.9	962	4	US-10-188-341-3	Sequence 3, Appl	363	30	66.7	375	5	US-10-450-753-57047	Sequence 57047, A
291	31	68.9	962	4	US-10-188-341-24	Sequence 24, Appl	364	30	66.7	392	4	US-10-094-080-1	Sequence 1, Appl
292	31	68.9	962	4	US-10-188-297-3	Sequence 3, Appl	365	30	66.7	400	4	US-10-437-963-338210	Sequence 138210, A
293	31	68.9	962	4	US-10-188-297-24	Sequence 24, Appl	366	30	66.7	409	4	US-10-162-335-34	Sequence 34, Appl
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300	31	68.9	987	4	US-10-188-296-22	Sequence 22, Appl	373	30	66.7	447	6	US-11-073-550-101	Sequence 101, App
301	31	68.9	987	4	US-10-188-341-22	Sequence 22, Appl	374	30	66.7	447	6	US-11-073-550-101	Sequence 101, App
302	31	68.9	987	4	US-10-188-297-22	Sequence 22, Appl	375	30	66.7	448	6	US-10-369-493-8215	Sequence 8215, App
303	31	68.9	987	4	US-10-188-297-22	Sequence 22, Appl	376	30	66.7	448	4	US-10-282-122A-57310	Sequence 57310, A
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306	31	68.9	988	4	US-10-128-323-2	Sequence 2, Appl	379	30	66.7	448	5	US-10-953-901-338	Sequence 338, App
307	31	68.9	988	4	US-10-162-012-5	Sequence 5, Appl	380	30	66.7	449	5	US-10-282-122A-72329	Sequence 72329, A
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315	31	68.9	988	4	US-10-332-447-31	Sequence 31, Appl	388	30	66.7	462	4	US-09-070-844-26	Sequence 26, Appl
316	31	68.9	988	4	US-10-322-696-36	Sequence 36, Appl	389	30	66.7	476	3	US-10-627-886-26	Sequence 26, Appl
317	31	68.9	988	5	US-10-816-061-5	Sequence 12, Appl	390	30	66.7	477	5	US-10-831-070-156	Sequence 156, App
318	31	68.9	988	5	US-10-916-061-12	Sequence 12, Appl	391	30	66.7	487	3	US-09-070-844-24	Sequence 24, Appl
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394	30	66.7	490	4	US-10-162-335-32	Sequence 32, Appl	467	29	64.4	82	5	US-10-617-320-2956	Sequence 2956, Ap
395	30	66.7	508	5	US-10-719-024-2	Sequence 2, Appl	468	29	64.4	84	4	US-10-424-599-270716	Sequence 270716,
396	30	66.7	508	5	US-10-467-555-48	Sequence 48, Appl	469	29	64.4	85	4	US-10-425-115-225996	Sequence 225996,
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398	30	66.7	508	6	US-09-070-844-4	Sequence 4, Appl	471	29	64.4	87	4	US-10-425-115-362532	Sequence 362532,
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401	30	66.7	524	4	US-10-347-278-15	Sequence 15, Appl	474	29	64.4	95	4	US-10-425-115-301352	Sequence 301352,
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412	30	66.7	633	6	US-11-067-557-152	Sequence 152, App	485	29	64.4	157	4	US-10-767-701-61770	Sequence 61770, A
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419	30	66.7	661	4	US-10-170-385-5	Sequence 5, Appl	492	29	64.4	197	4	US-10-424-599-200701	Sequence 200701,
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421	30	66.7	684	3	US-09-855-604-570	Sequence 570, App	494	29	64.4	214	4	US-10-424-599-251206	Sequence 251206,
422	30	66.7	684	3	US-09-855-604-570	Sequence 570, App	495	29	64.4	216	4	US-10-767-701-56021	Sequence 56021, A
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437	30	66.7	940	3	US-09-925-298-678	Sequence 678, App	510	29	64.4	320	4	US-10-770-127-160	Sequence 160, App
438	30	66.7	940	4	US-10-102-806-678	Sequence 806, App	511	29	64.4	320	5	US-10-962-365-160	Sequence 365, App
439	30	66.7	1037	4	US-10-437-963-186192	Sequence 186192,	512	29	64.4	337	5	US-10-450-763-31119	Sequence 31119, A
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441	30	66.7	1309	5	US-10-732-923-22581	Sequence 22581, A	514	29	64.4	349	4	US-10-282-122A-77546	Sequence 77546, A
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443	30	66.7	1312	4	US-10-369-493-1950	Sequence 1950, Ap	516	29	64.4	353	3	US-09-921-232-6	Sequence 232, App
444	30	66.7	1352	6	US-11-097-143-29418	Sequence 29418, A	517	29	64.4	353	3	US-09-921-330-6	Sequence 6, Appl
445	30	66.7	1399	4	US-10-437-963-170143	Sequence 170143,	518	29	64.4	353	3	US-09-921-330-6	Sequence 6, Appl
446	30	66.7	1633	6	US-11-097-143-16905	Sequence 16905, A	519	29	64.4	354	5	US-10-472-928-4912	Sequence 4912, Ap
447	30	66.7	1785	5	US-10-631-467-633	Sequence 633, App	520	29	64.4	355	4	US-10-282-122A-69645	Sequence 69645, A
448	30	66.7	1835	5	US-10-450-763-40208	Sequence 40208, A	521	29	64.4	355	4	US-10-664-421-162	Sequence 162, App
449	30	66.7	1956	4	US-10-369-493-6728	Sequence 6729, Ap	522	29	64.4	355	5	US-10-941-635-164	Sequence 164, App
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453	30	66.7	5588	4	US-10-329-148A-6	Sequence 6, Appl	526	29	64.4	368	5	US-10-617-320-4041	Sequence 4041, Ap
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455	29	64.4	17	4	US-10-432-465-103	Sequence 103, App	528	29	64.4	394	5	US-10-788-746-2	Sequence 2, Appl
456	29	64.4	17	4	US-10-433-091-72	Sequence 72, Appl	529	29	64.4	397	4	US-10-264-237-2317	Sequence 2317, Ap
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543	29	64.4	448	4	US-10-283-122A-74024	Sequence 74024, A
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557	29	64.4	466	5	US-10-450-763-55593	Sequence 55593, A
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562	29	64.4	614	5	US-10-921-868A-3	Sequence 3, Appli
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574	29	64.4	968	4	US-10-221-278-739	Sequence 739, App
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578	29	64.4	1017	4	US-10-369-493-21910	Sequence 21910, A
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586	29	64.4	1658	4	US-10-424-599-164128	Sequence 164128, A
587	29	64.4	2122	4	US-10-425-114-58438	Sequence 58438, A
588	29	64.4	2124	4	US-10-437-963-189782	Sequence 189782, A
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596	28	62.2	28	4	US-10-424-599-233097	Sequence 233097, A
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603	28	62.2	52	4	US-10-160-162-336	Sequence 336, App
604	28	62.2	52	5	US-10-936-773-336	Sequence 336, App
605	28	62.2	52	5	US-10-450-763-37084	Sequence 37084, A
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615	28	62.2	65	4	US-10-079-854-119	Sequence 119, App
616	28	62.2	66	4	US-10-425-115-239462	Sequence 239462, A
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628	28	62.2	81	4	US-10-407-543-84	Sequence 84, Appl
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630	28	62.2	84	2	US-08-860-844-97	Sequence 97, Appl
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644	28	62.2	123	4	US-08-864-761-41217	Sequence 41217, A
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646	28	62.2	126	4	US-10-450-763-15948	Sequence 41548, A
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652	28	62.2	132	4	US-10-197-666A-146	Sequence 146, App
653	28	62.2	132	4	US-10-197-666A-148	Sequence 148, App
654	28	62.2	132	4	US-10-301-822-83	Sequence 83, Appl
655	28	62.2	132	4	US-10-734-564-99	Sequence 99, Appl
656	28	62.2	132	4	US-10-367-094-203	Sequence 203, App
657	28	62.2	140	4	US-10-425-115-277359	Sequence 277359, A
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673	28	62.2	215	3	US-10-424-599-266845	Sequence 266845, A
674	28	62.2	216	4	US-10-104-047-2601	Sequence 2601, Ap
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677	28	62.2	226	3	US-10-091-438-219	Sequence 219, App
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686	28	62.2	239	5	US-10-501-282-5660	Sequence 5660, App	759	28	62.2	660	4	US-10-406-686A-50	Sequence 50, App1
687	28	62.2	241	3	US-09-881-752A-132	Sequence 132, App	760	28	62.2	665	4	US-10-055-569A-47	Sequence 47, App1
688	28	62.2	244	4	US-10-324-316-10	Sequence 10, App1	761	28	62.2	683	5	US-10-501-282-5998	Sequence 5998, App
689	28	62.2	244	6	US-11-038-329-10	Sequence 10, App1	762	28	62.2	693	4	US-10-437-963-192703	Sequence 192703, App
690	28	62.2	249	4	US-10-767-701-00419	Sequence 40419, A	763	28	62.2	698	5	US-10-732-923-2553	Sequence 2553, App
691	28	62.2	249	5	US-10-450-763-00397	Sequence 40397, A	764	28	62.2	698	5	US-10-732-923-2554	Sequence 2554, App
692	28	62.2	250	5	US-10-501-282-5662	Sequence 5662, App	765	28	62.2	700	5	US-10-501-282-6000	Sequence 6000, App
693	28	62.2	255	4	US-10-282-122A-58805	Sequence 58805, A	766	28	62.2	714	4	US-10-437-963-173392	Sequence 173392, App
694	28	62.2	263	4	US-10-437-963-172173	Sequence 172173, A	767	28	62.2	715	5	US-10-501-282-6002	Sequence 6002, App
695	28	62.2	271	4	US-10-289-762-58	Sequence 58, App1	768	28	62.2	744	3	US-09-764-853-510	Sequence 510, App
696	28	62.2	275	4	US-10-389-566-366	Sequence 366, App	769	28	62.2	745	5	US-10-481-032A-426	Sequence 426, App
697	28	62.2	280	5	US-10-493-462-31	Sequence 31, App1	770	28	62.2	778	4	US-10-282-122A-51533	Sequence 51533, A
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702	28	62.2	332	3	US-09-767-041-21	Sequence 21, App1	775	28	62.2	844	4	US-10-054-399A-24	Sequence 24, App1
703	28	62.2	332	4	US-10-156-761-8995	Sequence 8995, App	776	28	62.2	844	4	US-10-032-585-7142	Sequence 7142, App
704	28	62.2	333	4	US-10-369-493-612	Sequence 612, App	777	28	62.2	851	4	US-10-369-493-17844	Sequence 17844, A
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707	28	62.2	340	4	US-10-424-559-558221	Sequence 258221, A	780	28	62.2	901	5	US-10-450-763-47042	Sequence 47042, App
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709	28	62.2	348	6	US-10-425-115-339449	Sequence 239449, A	782	28	62.2	912	4	US-10-437-963-153318	Sequence 153318, App
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712	28	62.2	353	4	US-10-437-963-195937	Sequence 195937, A	785	28	62.2	961	4	US-10-042-865-158	Sequence 158, App
713	28	62.2	357	4	US-10-450-763-00398	Sequence 40398, A	786	28	62.2	962	4	US-10-042-865-159	Sequence 159, App
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715	28	62.2	370	4	US-10-369-493-9189	Sequence 9189, A	788	28	62.2	979	4	US-10-042-865-36	Sequence 36, App1
716	28	62.2	370	4	US-10-369-493-9508	Sequence 9508, App	789	28	62.2	980	4	US-10-055-569A-46	Sequence 46, App1
717	28	62.2	385	4	US-10-424-559-188084	Sequence 188084, A	790	28	62.2	980	4	US-10-042-865-157	Sequence 157, App
718	28	62.2	405	4	US-10-108-260A-3931	Sequence 3931, App	791	28	62.2	990	5	US-10-475-476-4	Sequence 4, App1
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720	28	62.2	414	4	US-10-424-559-147426	Sequence 147426, A	793	28	62.2	993	3	US-09-815-242-5809	Sequence 5809, App
721	28	62.2	421	4	US-10-425-114-56246	Sequence 65626, A	794	28	62.2	997	4	US-10-282-122A-43961	Sequence 43961, A
722	28	62.2	431	5	US-10-498-327-175	Sequence 175, A	795	28	62.2	1002	3	US-09-815-242-12899	Sequence 12899, A
723	28	62.2	442	4	US-10-023-437-63	Sequence 63, App1	796	28	62.2	1002	3	US-09-815-242-13158	Sequence 13158, A
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727	28	62.2	444	4	US-10-275-026A-152	Sequence 152, App	800	28	62.2	1055	4	US-10-168-425-1	Sequence 1, App1
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729	28	62.2	447	4	US-10-369-493-17622	Sequence 17622, A	802	28	62.2	1059	3	US-09-909-088A-230	Sequence 230, App
730	28	62.2	471	4	US-10-347-278-16	Sequence 16, App1	803	28	62.2	1059	3	US-09-905-291A-230	Sequence 230, App
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733	28	62.2	487	3	US-09-938-803-6	Sequence 6, App1	806	28	62.2	1059	3	US-09-907-841-290	Sequence 290, App
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ALIGNMENTS

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; Publication No. US20040091479A1
; GENERAL INFORMATION:
; APPLICANT: Nielsen, John
; APPLICANT: Kaufmann, Andreas
; APPLICANT: Kacher, Angela
; APPLICANT: Schinz, Manuela
; TITLE OF INVENTION: T-Cell Epitopes of the Papillomavirus L1
; TITLE OF INVENTION: Protein and E7 Protein and Their Use in Diagnosis and
; FILE REFERENCE: 50125/077001
; CURRENT APPLICATION NUMBER: US/10/432,465
; PRIOR FILING DATE: 2003-12-10
; PRIOR APPLICATION NUMBER: PCT/EP01/14037
; PRIOR FILING DATE: 2001-11-30
; PRIOR APPLICATION NUMBER: DE 10059631.2
; NUMBER OF SEQ ID NOS: 116
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 115
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-432-465-115
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; Publication No. US20050100928A1
; GENERAL INFORMATION:
; APPLICANT: Hedley, Mary Lynne
; APPLICANT: Urban, Robert G.
; APPLICANT: Chiciz, Roman M.
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; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES
; FILE REFERENCE: 08191-013001
; CURRENT APPLICATION NUMBER: US/10/751,845
; PRIOR FILING DATE: 2004-01-05
; PRIOR APPLICATION NUMBER: US/09/664,225
; PRIOR FILING DATE: 2000-08-18
; PRIOR APPLICATION NUMBER: US 60/169,846
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: US 60/154,665
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 163
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US-10-751-845-149
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; Publication No. US20050100928A1
; GENERAL INFORMATION:
; APPLICANT: Hedley, Mary Lynne
; APPLICANT: Urban, Robert G.
; APPLICANT: Chiciz, Roman M.
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES
; FILE REFERENCE: 08191-013001
; CURRENT APPLICATION NUMBER: US/10/751,845
; PRIOR FILING DATE: 2004-01-05
; PRIOR APPLICATION NUMBER: US/09/664,225
; PRIOR FILING DATE: 2000-08-18
; PRIOR APPLICATION NUMBER: US 60/169,846
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: US 60/154,665
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 163
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 151
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Human Papilloma virus
US-10-751-845-151
```

```
Query Match 100.0%; Score 45; DB 5; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.08;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 FOOLFLNTL 9
Db 2 FOOLFLNTL 10
```

```
RESULT 4
US-10-751-845-156
; Sequence 156, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
; APPLICANT: Hedley, Mary Lynne
; APPLICANT: Urban, Robert G.
; APPLICANT: Chiciz, Roman M.
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES
; FILE REFERENCE: 08191-013001
; CURRENT APPLICATION NUMBER: US/10/751,845
```

```

; CURRENT FILING DATE: 2004-01-05
; PRIOR APPLICATION NUMBER: US/09/664,225
; PRIOR FILING DATE: 2000-08-18
; PRIOR APPLICATION NUMBER: US 60/169,846
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: US 60/154,665
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 163
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 156
; LENGTH: 17
; TYPE: PRT
; ORGANISM: Human Papilloma virus
US-10-751-845-156
```

```

Query Match          100.0%; Score 45; DB 5; Length 17;
Best Local Similarity 100.0%; Pred. No. 0.13;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy      1 FOOLFLNTL 9
        |||||
Db      2 FOOLFLNTL 10
```

```

RESULT 5
US-10-432-465-102
; Sequence 102, Application US/10432465
; Publication No. US20040091479A1
; GENERAL INFORMATION:
; APPLICANT: Nieland, John
; APPLICANT: Kaufmann, Andreas
; APPLICANT: Kather, Angela
; APPLICANT: Schinz, Manuela
```

```

; TITLE OF INVENTION: T-cell Epitopes of the Papillomavirus L1
; TITLE OF INVENTION: Protein and E7 Protein and their use in diagnosis and
; TITLE OF INVENTION: therapy
; FILE REFERENCE: 50125/077001
; CURRENT APPLICATION NUMBER: US/10/432,465
; CURRENT FILING DATE: 2003-12-10
; PRIOR APPLICATION NUMBER: PCT/EP01/14037
; PRIOR FILING DATE: 2001-11-30
; PRIOR APPLICATION NUMBER: DE 10059631.2
; PRIOR FILING DATE: 2000-12-01
; NUMBER OF SEQ ID NOS: 116
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 102
; LENGTH: 20
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-432-465-102
```

```

Query Match          100.0%; Score 45; DB 4; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.16;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy      1 FOOLFLNTL 9
        |||||
Db      9 FOOLFLNTL 17
```

```

RESULT 6
US-10-433-091-71
; Sequence 71, Application US/10433091
; Publication No. US20040101533A1
; GENERAL INFORMATION:
; APPLICANT: MILLER, RAINER
; APPLICANT: NIELAND, JOHN
; APPLICANT: GABELSBERGER, JOSEF
; APPLICANT: HERBST, RUTH
; TITLE OF INVENTION: MEDICAMENT FOR PREVENTING OR TREATING TUMORS CAUSED BY
; FILE REFERENCE: 037067/0115
; CURRENT APPLICATION NUMBER: US/10/433,091
```

```

; CURRENT FILING DATE: 2003-11-25
; PRIOR APPLICATION NUMBER: PCT/EP01/14038
; PRIOR FILING DATE: 2001-11-30
; PRIOR APPLICATION NUMBER: DE 100 59 630.4
; PRIOR FILING DATE: 2000-12-01
; NUMBER OF SEQ ID NOS: 72
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 71
; LENGTH: 20
; TYPE: PRT
; ORGANISM: Human papillomavirus type 18
US-10-433-091-71
```

```

Query Match          100.0%; Score 45; DB 4; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.16;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy      1 FOOLFLNTL 9
        |||||
Db      9 FOOLFLNTL 17
```

```

RESULT 7
US-10-433-091-4
; Sequence 4, Application US/10433091
; Publication No. US20040101533A1
; GENERAL INFORMATION:
; APPLICANT: MILLER, RAINER
; APPLICANT: NIELAND, JOHN
; APPLICANT: GABELSBERGER, JOSEF
; APPLICANT: HERBST, RUTH
; TITLE OF INVENTION: MEDICAMENT FOR PREVENTING OR TREATING TUMORS CAUSED BY
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS TYPE 18
; FILE REFERENCE: 037067/0115
; CURRENT APPLICATION NUMBER: US/10/433,091
; CURRENT FILING DATE: 2003-11-25
; PRIOR APPLICATION NUMBER: PCT/EP01/14038
; PRIOR FILING DATE: 2001-11-30
; PRIOR APPLICATION NUMBER: DE 100 59 630.4
; PRIOR FILING DATE: 2000-12-01
; NUMBER OF SEQ ID NOS: 72
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 4
; LENGTH: 105
; TYPE: PRT
; ORGANISM: Human papillomavirus type 18
US-10-433-091-4
```

```

Query Match          100.0%; Score 45; DB 4; Length 105;
Best Local Similarity 100.0%; Pred. No. 0.81;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy      1 FOOLFLNTL 9
        |||||
Db      86 FOOLFLNTL 94
```

```

RESULT 8
US-10-472-724-8
; Sequence 8, Application US/10472724
; Publication No. US20040171806A1
; GENERAL INFORMATION:
; APPLICANT: Cid-Arregui, Angel
; APPLICANT: Zur Hausen, Harald
; TITLE OF INVENTION: Modified HPV E6 and E7 genes and proteins useful for vaccination
; FILE REFERENCE: 4121-154
; CURRENT APPLICATION NUMBER: US/10/472,724
; CURRENT FILING DATE: 2003-09-17
; PRIOR APPLICATION NUMBER: PCT/EP02/03271
; PRIOR FILING DATE: 2002-03-22
; PRIOR APPLICATION NUMBER: EP 01107271.7
; PRIOR FILING DATE: 2001-03-23
; NUMBER OF SEQ ID NOS: 27
```

; SOFTWARE: Patentin version 3.2
; SEQ ID NO 8
; LENGTH: 118
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Construct
US-10-472-724-8

Query Match 100.0%; Score 45; DB 4; Length 118;
Best Local Similarity 100.0%; Pred. No. 0.91;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 FOOLFLNTL 9
Db 91 FOOLFLNTL 99

RESULT 9
US-10-751-845-159
; Sequence 159, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
; APPLICANT: Hedley, Mary Lynne
; APPLICANT: Urban, Robert G.
; APPLICANT: Chicz, Roman M.
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES
; FILE REFERENCE: 08191-015001
; CURRENT APPLICATION NUMBER: US/10/751,845
; CURRENT FILING DATE: 2004-01-05
; PRIOR APPLICATION NUMBER: US/09/664,225
; PRIOR FILING DATE: 2000-08-18
; PRIOR APPLICATION NUMBER: US 60/169,846
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: US 60/154,665
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 163
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 159
; LENGTH: 119
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Artificial fusion sequence
US-10-751-845-159

Query Match 100.0%; Score 45; DB 5; Length 119;
Best Local Similarity 100.0%; Pred. No. 0.91;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 FOOLFLNTL 9
Db 104 FOOLFLNTL 112

RESULT 10
US-10-000-903-16
; Sequence 16, Application US/10000903
; Publication No. US20020182221A1
; GENERAL INFORMATION:
; APPLICANT: Bruck, Claudine
; APPLICANT: Cabezon Silva, Teresa
; APPLICANT: Delisse, Anne-Marie Eva Bernande
; APPLICANT: Gerard, Catherine Marie Ghislaine
; APPLICANT: Lombardo-Bencheikh, Angela
; TITLE OF INVENTION: Vaccine
; FILE REFERENCE: B45107
; CURRENT APPLICATION NUMBER: US/10/000,903
; CURRENT FILING DATE: 2001-10-01
; PRIOR APPLICATION NUMBER: PCT/EP98/05285
; PRIOR FILING DATE: 1998-08-17
; PRIOR APPLICATION NUMBER: GB 9717953.5
; PRIOR FILING DATE: 1997-08-22

; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 16
; LENGTH: 227
; TYPE: PRT
; ORGANISM: Homo sapien
US-10-000-903-16

Query Match 100.0%; Score 45; DB 4; Length 227;
Best Local Similarity 100.0%; Pred. No. 1.7;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 FOOLFLNTL 9
Db 199 FOOLFLNTL 207

RESULT 11
US-10-000-903-19
; Sequence 19, Application US/10000903
; Publication No. US20020182221A1
; GENERAL INFORMATION:
; APPLICANT: Bruck, Claudine
; APPLICANT: Cabezon Silva, Teresa
; APPLICANT: Delisse, Anne-Marie Eva Bernande
; APPLICANT: Gerard, Catherine Marie Ghislaine
; APPLICANT: Lombardo-Bencheikh, Angela
; TITLE OF INVENTION: Vaccine
; FILE REFERENCE: B45107
; CURRENT APPLICATION NUMBER: US/10/000,903
; CURRENT FILING DATE: 2001-10-01
; PRIOR APPLICATION NUMBER: PCT/EP98/05285
; PRIOR FILING DATE: 1998-08-17
; PRIOR APPLICATION NUMBER: GB 9717953.5
; PRIOR FILING DATE: 1997-08-22
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 19
; LENGTH: 227
; TYPE: PRT
; ORGANISM: Homo sapien
US-10-000-903-19

Query Match 100.0%; Score 45; DB 4; Length 227;
Best Local Similarity 100.0%; Pred. No. 1.7;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 FOOLFLNTL 9
Db 199 FOOLFLNTL 207

RESULT 12
US-10-899-771-16
; Sequence 16, Application US/10899771
; Publication No. US20050031638A1
; GENERAL INFORMATION:
; APPLICANT: Dalemans, Wilfried L.V.
; APPLICANT: Gerard, Catherine Marie Ghislaine
; TITLE OF INVENTION: Compositions Comprising Human Papilloma Virus Proteins
; TITLE OF INVENTION: and Fusion Proteins Adjuvanted with a Cpg Oligonucleotide
; FILE REFERENCE: B45124
; CURRENT APPLICATION NUMBER: US/10/899,771
; CURRENT FILING DATE: 2004-07-27
; PRIOR APPLICATION NUMBER: US/09/581,976
; PRIOR FILING DATE: 2000-06-20
; PRIOR APPLICATION NUMBER: PCT/EP98/08563
; PRIOR FILING DATE: 1998-12-18
; PRIOR APPLICATION NUMBER: GB 9727262.9
; PRIOR FILING DATE: 1997-12-24
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 16

```

; LENGTH: 227
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Chimeric protein (protein D from Haemophilus
; OTHER INFORMATION: Influenzae B and E7 from Human papilloma virus type
; OTHER INFORMATION: 18)
US-10-899-771-16

Query Match          100.0%; Score 45; DB 5; Length 227;
Best Local Similarity 100.0%; Pred. No. 1.7;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 FOQLFNTL 9
Db      199 FOQLFNTL 207

RESULT 13
US-10-899-771-19
; Sequence 19, Application US/10899771
; Publication No. US20050031638A1
; GENERAL INFORMATION:
; APPLICANT: Dalemans, Wilfried L.J.
; APPLICANT: Gerard, Catherine Marie Ghislaine
; TITLE OF INVENTION: Compositions Comprising Human Papilloma Virus Proteins
; TITLE OF INVENTION: and Fusion Proteins Adjuvanted with a CpG Oligonucleotide
; FILE REFERENCE: B5124
; CURRENT APPLICATION NUMBER: US/10/899, 771
; CURRENT FILING DATE: 2004-07-27
; PRIOR APPLICATION NUMBER: US/09/581, 976
; PRIOR FILING DATE: 2000-06-20
; PRIOR APPLICATION NUMBER: PCT/EP98/08563
; PRIOR FILING DATE: 1998-12-18
; PRIOR APPLICATION NUMBER: GB 9727262.9
; PRIOR FILING DATE: 1997-12-24
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 19
; LENGTH: 227
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Chimeric protein (protein D from Haemophilus
; OTHER INFORMATION: Influenzae B and mutated E7 from Human papilloma
; OTHER INFORMATION: virus type 18)
US-10-899-771-19

Query Match          100.0%; Score 45; DB 5; Length 227;
Best Local Similarity 100.0%; Pred. No. 1.7;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 FOQLFNTL 9
Db      199 FOQLFNTL 207

RESULT 14
US-10-751-845-157
; Sequence 157, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
; APPLICANT: Hedley, Mary Lynne
; APPLICANT: Urban, Robert G.
; APPLICANT: Chicz, Roman M.
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES
; FILE REFERENCE: 08191-013001
; CURRENT APPLICATION NUMBER: US/10/751, 845
; CURRENT FILING DATE: 2004-01-05
; PRIOR APPLICATION NUMBER: US/09/664, 225
; PRIOR FILING DATE: 2000-08-18
; PRIOR APPLICATION NUMBER: US 60/169, 846
; PRIOR FILING DATE: 1999-12-09
```

```

; PRIOR APPLICATION NUMBER: US 60/154, 665
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 163
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 157
; LENGTH: 236
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Artificial fusion sequence
US-10-751-845-157

Query Match          100.0%; Score 45; DB 5; Length 236;
Best Local Similarity 100.0%; Pred. No. 1.8;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 FOQLFNTL 9
Db      221 FOQLFNTL 229

RESULT 15
US-10-751-845-158
; Sequence 158, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
; APPLICANT: Hedley, Mary Lynne
; APPLICANT: Urban, Robert G.
; APPLICANT: Chicz, Roman M.
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES
; FILE REFERENCE: 08191-013001
; CURRENT APPLICATION NUMBER: US/10/751, 845
; CURRENT FILING DATE: 2004-01-05
; PRIOR APPLICATION NUMBER: US/09/664, 225
; PRIOR FILING DATE: 2000-08-18
; PRIOR APPLICATION NUMBER: US 60/169, 846
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: US 60/154, 665
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 163
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 158
; LENGTH: 237
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Artificial fusion sequence
US-10-751-845-158

Query Match          100.0%; Score 45; DB 5; Length 237;
Best Local Similarity 100.0%; Pred. No. 1.8;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 FOQLFNTL 9
Db      222 FOQLFNTL 230

RESULT 16
US-10-751-845-160
; Sequence 160, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
; APPLICANT: Hedley, Mary Lynne
; APPLICANT: Urban, Robert G.
; APPLICANT: Chicz, Roman M.
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES
; FILE REFERENCE: 08191-013001
; CURRENT APPLICATION NUMBER: US/10/751, 845
; CURRENT FILING DATE: 2004-01-05
; PRIOR APPLICATION NUMBER: US/09/664, 225
; PRIOR FILING DATE: 2000-08-18
; PRIOR APPLICATION NUMBER: US 60/169, 846
```

;; PRIOR FILING DATE: 1999-12-09
;; PRIOR APPLICATION NUMBER: US 60/154,665
;; PRIOR FILING DATE: 1999-09-16
;; NUMBER OF SEQ ID NOS: 163
;; SOFTWARE: FastSeq for Windows Version 4.0
;; SEQ ID NO 160
;; LENGTH: 261
;; TYPE: PRT
;; ORGANISM: Artificial Sequence
;; FEATURE:
;; OTHER INFORMATION: Artificial fusion sequence
US-10-751-845-160

Query Match 100.0%; Score 45; DB 5; Length 261;
Best Local Similarity 100.0%; Pred. No. 2;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 FOQLPLNTL 9
Db 246 FOQLPLNTL 254

RESULT 17
US-10-000-903-23
;; Sequence 23, Application US/10000903
;; Publication No. US2002018222A1
;; GENERAL INFORMATION:
;; APPLICANT: Bruck, Claudine
;; APPLICANT: Cabezon Silva, Teresa
;; APPLICANT: Delisse, Anne-Marie Eva Fernande
;; APPLICANT: Gerard, Catherine Marie Ghislaine
;; APPLICANT: Lombardo-Benchelikh, Angela
;; TITLE OF INVENTION: Vaccine
;; FILE REFERENCE: B45107
;; CURRENT APPLICATION NUMBER: US/10/000,903
;; CURRENT FILING DATE: 2001-10-01
;; PRIOR APPLICATION NUMBER: PCT/EP98/05285
;; PRIOR FILING DATE: 1998-08-17
;; PRIOR APPLICATION NUMBER: GB 9717953.5
;; PRIOR FILING DATE: 1997-08-22
;; NUMBER OF SEQ ID NOS: 23
;; SOFTWARE: FastSeq for Windows Version 3.0
;; SEQ ID NO 23
;; LENGTH: 383
;; TYPE: PRT
;; ORGANISM: Homo sapien
US-10-000-903-23

Query Match 100.0%; Score 45; DB 4; Length 383;
Best Local Similarity 100.0%; Pred. No. 2.9;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 FOQLPLNTL 9
Db 355 FOQLPLNTL 363

RESULT 18
US-10-899-771-23
;; Sequence 23, Application US/10899771
;; Publication No. US20050031638A1
;; GENERAL INFORMATION:
;; APPLICANT: Dalemans, Wilfried L.J.
;; APPLICANT: Gerard, Catherine Marie Ghislaine
;; TITLE OF INVENTION: Compositions Comprising Human Papilloma Virus Proteins
;; TITLE OF INVENTION: and Fusion Proteins Adjuvanted with a Cpg Oligonucleotide
;; FILE REFERENCE: B45124
;; CURRENT APPLICATION NUMBER: US/10/899,771
;; CURRENT FILING DATE: 2004-07-27
;; PRIOR APPLICATION NUMBER: US/09/581,976
;; PRIOR FILING DATE: 2000-06-20
;; PRIOR APPLICATION NUMBER: PCT/EP98/08563
;; PRIOR FILING DATE: 1998-12-18

;; PRIOR APPLICATION NUMBER: GB 9727262.9
;; PRIOR FILING DATE: 1997-12-24
;; NUMBER OF SEQ ID NOS: 28
;; SOFTWARE: FastSeq for Windows Version 3.0
;; SEQ ID NO 23
;; LENGTH: 383
;; TYPE: PRT
;; ORGANISM: Artificial Sequence
;; FEATURE:
;; OTHER INFORMATION: Chimeric protein (protein D from Haemophilus
;; OTHER INFORMATION: influenzae B and E6E7 fusion from Human papilloma
;; OTHER INFORMATION: virus type 18)
US-10-899-771-23

Query Match 100.0%; Score 45; DB 5; Length 383;
Best Local Similarity 100.0%; Pred. No. 2.9;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 FOQLPLNTL 9
Db 355 FOQLPLNTL 363

RESULT 19
US-10-800-023-28
;; Sequence 28, Application US/10800023
;; Publication No. US2004025868A1
;; GENERAL INFORMATION:
;; APPLICANT: Steinman, Ralph
;; APPLICANT: Nussenzweig, Michel
;; APPLICANT: Hawiger, Daniel
;; APPLICANT: Bonifaz, Laura
;; TITLE OF INVENTION: Enhanced Antigen Delivery and Modulation
;; TITLE OF INVENTION: of the Immune Response Therefrom
;; FILE REFERENCE: 600-1-081CONCIP1
;; CURRENT APPLICATION NUMBER: US/10/800,023
;; CURRENT FILING DATE: 2004-03-14
;; PRIOR APPLICATION NUMBER: 09/925,284
;; PRIOR FILING DATE: 2001-08-09
;; PRIOR APPLICATION NUMBER: 09/586,704
;; PRIOR FILING DATE: 2000-06-05
;; PRIOR APPLICATION NUMBER: PCT/US96/01383
;; PRIOR FILING DATE: 1996-01-31
;; PRIOR APPLICATION NUMBER: 08/381,528
;; PRIOR FILING DATE: 1995-01-31
;; NUMBER OF SEQ ID NOS: 37
;; SOFTWARE: FastSeq for Windows Version 4.0
;; SEQ ID NO 28
;; LENGTH: 105
;; TYPE: PRT
;; ORGANISM: human papilloma virus E7 protein
US-10-800-023-28

Query Match 86.7%; Score 39; DB 5; Length 105;
Best Local Similarity 88.9%; Pred. No. 11;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 FOQLPLNTL 9
Db 86 FOQLPLNTL 94

RESULT 20
US-10-289-762-1049
;; Sequence 1049, Application US/10289762
;; Publication No. US20040006218A1
;; GENERAL INFORMATION:
;; APPLICANT: Griffiths, R.
;; TITLE OF INVENTION: Chlamydia pneumoniae genomic sequence and polypeptides, fragments
;; TITLE OF INVENTION: thereof and uses thereof, in particular for the diagnosis, prevention
;; TITLE OF INVENTION: and treatment of infection
;; FILE REFERENCE: 9710-003-999
;; CURRENT APPLICATION NUMBER: US/10/289,762

;; CURRENT FILING DATE: 2003-03-27
;; NUMBER OF SEQ ID NOS: 6849
;; SEQ ID NO 1049
;; LENGTH: 358
;; TYPE: PRT
;; ORGANISM: Chlamydia pneumoniae
US-10-289-762-1049

Query Match
Best Local Similarity 80.0%; Score 36; DB 4; Length 358;
Best Local Similarity 77.8%; Pred. No. 1.3e+02;
Matches 7; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 FOQLFNTL 9
|||
Db 311 FOQLFNTL 319

RESULT 21
US-10-756-149-5680
; Sequence 5680, Application US/10756149
; Publication No. US2005018175A1
; GENERAL INFORMATION:
; APPLICANT: Aziz, Natsaba
; APPLICANT: Zlotnick, Albert
; TITLE OF INVENTION: NOVEL METHODS OF DIAGNOSIS OF METASTATIC CANCER, COMPOSITIONS AND
; TITLE OF INVENTION: METHODS OF SCREENING FOR MODULATORS OF METASTATIC CANCER
; FILE REFERENCE: file
; CURRENT APPLICATION NUMBER: US/10/756,149
; CURRENT FILING DATE: 2004-01-12
; NUMBER OF SEQ ID NOS: 5818
; SOFTWARE: Patent in version 3.2
; SEQ ID NO 5680
; LENGTH: 721
; TYPE: PRT
; ORGANISM: Homo Sapiens
US-10-756-149-5680

Query Match
Best Local Similarity 80.0%; Score 36; DB 5; Length 721;
Best Local Similarity 87.5%; Pred. No. 2.7e+02;
Matches 7; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 FOQLFNTL 8
|||
Db 64 FOQLFNTL 71

RESULT 22
US-10-450-763-54963
; Sequence 54963, Application US/10450763
; Publication No. US20050196754A1
; GENERAL INFORMATION:
; APPLICANT: Hyseq, Inc
; TITLE OF INVENTION: NOVEL NUCLEIC ACIDS AND POLYPEPTIDES
; FILE REFERENCE: 790CIP3/US
; CURRENT APPLICATION NUMBER: US/10/450,763
; CURRENT FILING DATE: 2003-06-11
; PRIOR APPLICATION NUMBER: PCT/US01/08631
; PRIOR FILING DATE: 2001-03-30
; PRIOR APPLICATION NUMBER: 09/540,217
; PRIOR FILING DATE: 2000-03-31
; PRIOR APPLICATION NUMBER: 09/649,167
; PRIOR FILING DATE: 2000-08-23
; NUMBER OF SEQ ID NOS: 60736
; SOFTWARE: Custom
; SEQ ID NO 54963
; LENGTH: 575
; TYPE: PRT
; ORGANISM: Homo sapiens
; NAME/KEY: DOMAIN
; LOCATION: (59)..(145)
; OTHER INFORMATION: ParB-like nuclease domain identified by Pfam, accession name
; .. OTHER INFORMATION: ParBc, E-value=4.1e-09, Pfam score of 43.7

;; FEATURE:
;; NAME/KEY: misc_feature
;; LOCATION: (1)..(575)
;; OTHER INFORMATION: Xaa = X or * as defined in Table 2
US-10-450-763-54963

Query Match
Best Local Similarity 77.8%; Score 35; DB 5; Length 575;
Best Local Similarity 87.5%; Pred. No. 3.3e+02;
Matches 7; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 FOQLFNTL 8
|||
Db 20 FOQLFNTL 27

RESULT 23
US-10-751-845-123
; Sequence 123, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
; APPLICANT: Hedley, Mary Lynne
; APPLICANT: Urban, Robert G.
; APPLICANT: Chicz, Roman M.
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES
; FILE REFERENCE: 08191-013001
; CURRENT APPLICATION NUMBER: US/10/751,845
; CURRENT FILING DATE: 2004-01-05
; PRIOR APPLICATION NUMBER: US/09/664,225
; PRIOR FILING DATE: 2000-08-18
; PRIOR APPLICATION NUMBER: US 60/169,846
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: US 60/154,665
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 163
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 123
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Human Papilloma virus
US-10-751-845-123

Query Match
Best Local Similarity 75.6%; Score 34; DB 5; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.7e+06;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 3 QQLFNTL 9
|||
Db 1 QQLFNTL 7

RESULT 24
US-10-751-845-146
; Sequence 146, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
; APPLICANT: Hedley, Mary Lynne
; APPLICANT: Urban, Robert G.
; APPLICANT: Chicz, Roman M.
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES
; FILE REFERENCE: 08191-013001
; CURRENT APPLICATION NUMBER: US/10/751,845
; CURRENT FILING DATE: 2004-01-05
; PRIOR APPLICATION NUMBER: US/09/664,225
; PRIOR FILING DATE: 2000-08-18
; PRIOR APPLICATION NUMBER: US 60/169,846
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: US 60/154,665
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 163
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 146
; LENGTH: 10
; TYPE: PRT

ORGANISM: Human Papilloma Virus
US-10-751-845-146

Query Match 75.6%; Score 34; DB 5; Length 10;
Best Local Similarity 100.0%; Pred. No. 9.3;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 3 QOLPLNTL 9
Db 1 QOLPLNTL 7

RESULT 25

US-11-097-143-1923
Sequence 1923, Application US/11097143
Publication No. US20050208558A1
GENERAL INFORMATION:
APPLICANT: Venter, J. Craig
APPLICANT: et al.
TITLE OF INVENTION: DETECTION KIT, SUCH AS NUCLEIC ACID
TITLE OF INVENTION: ARRAYS, FOR DETECTING EXPRESSION OF 10,000 OR MORE
TITLE OF INVENTION: DROSOPHILA GENES.
FILE REFERENCE: CL000728
CURRENT APPLICATION NUMBER: US/11/097,143
CURRENT FILING DATE: 2005-04-04
PRIOR APPLICATION NUMBER: 60/157,832
PRIOR FILING DATE: 1999-10-05
PRIOR APPLICATION NUMBER: 60/160,181
PRIOR FILING DATE: 1999-10-19
PRIOR APPLICATION NUMBER: 60/161,932
PRIOR FILING DATE: 1999-10-28
PRIOR APPLICATION NUMBER: 60/164,769
PRIOR FILING DATE: 1999-11-12
PRIOR APPLICATION NUMBER: 60/173,383
PRIOR FILING DATE: 1999-12-28
PRIOR APPLICATION NUMBER: 60/175,693
PRIOR FILING DATE: 2000-01-12
PRIOR APPLICATION NUMBER: 60/184,831
PRIOR FILING DATE: 2000-02-24
PRIOR APPLICATION NUMBER: 60/191,637
PRIOR FILING DATE: 2000-03-23
NUMBER OF SEQ ID NOS: 43008
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 1923
LENGTH: 201
TYPE: PRT
ORGANISM: DROSOPHILA
US-11-097-143-1923

Query Match 75.6%; Score 34; DB 6; Length 201;
Best Local Similarity 75.0%; Pred. No. 1.8e+02;
Matches 6; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 1 FOOLPLNTL 8
Db 114 FEQLPLNTL 121

RESULT 26

US-10-424-599-214588
Sequence 214588, Application US/10424599
Publication No. US20040031072A1
GENERAL INFORMATION:
APPLICANT: La Rosa Thomas J
APPLICANT: Kovalic David K
APPLICANT: Zhou Yihua
APPLICANT: Cao Yongwei
TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated with
TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
FILE REFERENCE: 38-21(53223)B
CURRENT APPLICATION NUMBER: US/10/424,599
CURRENT FILING DATE: 2003-04-28
NUMBER OF SEQ ID NOS: 285684

SEQ ID NO 214588
LENGTH: 1668
TYPE: PRT
ORGANISM: Glycine max
FEATURE:
OTHER INFORMATION: Clone ID: PAT_MRT3847_357C.1.pcp
US-10-424-599-214588

Query Match 75.6%; Score 34; DB 4; Length 1668;
Best Local Similarity 87.5%; Pred. No. 1.4e+03;
Matches 7; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 2 QOLPLNTL 9
Db 965 QOLPLNTL 972

RESULT 27

US-09-993-844-69
Sequence 69, Application US/09993844
Patent No. US20020106739A1
GENERAL INFORMATION:
APPLICANT: Oakley, Robert H.
APPLICANT: Barak, Lawrence S.
APPLICANT: Laporte, Stephane A.
APPLICANT: Caron, Marc G.
TITLE OF INVENTION: Modified G-Protein Coupled Receptors
FILE REFERENCE: 033072-026
CURRENT APPLICATION NUMBER: US/09/993,844
CURRENT FILING DATE: 2001-11-05
PRIOR APPLICATION NUMBER: US 60/245,772
PRIOR FILING DATE: 2000-11-03
PRIOR APPLICATION NUMBER: US 60/260,363
PRIOR FILING DATE: 2001-01-08
NUMBER OF SEQ ID NOS: 81
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 69
LENGTH: 60
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: carboxyl-terminal tail of NTR-1
US-09-993-844-69

Query Match 73.3%; Score 33; DB 3; Length 60;
Best Local Similarity 66.7%; Pred. No. 84;
Matches 6; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

Qy 1 FOOLPLNTL 9
Db 12 FROVPLNTL 20

RESULT 28

US-09-993-844-70
Sequence 70, Application US/09993844
Patent No. US20020106739A1
GENERAL INFORMATION:
APPLICANT: Oakley, Robert H.
APPLICANT: Barak, Lawrence S.
APPLICANT: Laporte, Stephane A.
APPLICANT: Caron, Marc G.
TITLE OF INVENTION: Modified G-Protein Coupled Receptors
FILE REFERENCE: 033072-026
CURRENT APPLICATION NUMBER: US/09/993,844
CURRENT FILING DATE: 2001-11-05
PRIOR APPLICATION NUMBER: US 60/245,772
PRIOR FILING DATE: 2000-11-03
PRIOR APPLICATION NUMBER: US 60/260,363
PRIOR FILING DATE: 2001-01-08
NUMBER OF SEQ ID NOS: 81
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 70

```

; LENGTH: 60
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: receptor mutant
US-09-993-844-70
```

```
Query Match          73.3%; Score 33; DB 3; Length 60;
Best Local Similarity 66.7%; Pred. No. 84;
Matches 6; Conservative 3; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 FQQLFLNTL 9
        ||:|||||
Db       12 FQVFLSTL 20
```

```
RESULT 29
US-09-993-844-71
; Sequence 71, Application US/09993844
; Patent No. US20020106739A1
; GENERAL INFORMATION:
; APPLICANT: Oakley, Robert H.
; APPLICANT: Barak, Lawrence S.
; APPLICANT: Laporte, Stephane A.
; APPLICANT: Caron, Marc G.
; TITLE OF INVENTION: Modified G-Protein Coupled Receptors
; FILE REFERENCE: 033072-026
; CURRENT FILING DATE: 2001-11-05
; PRIOR APPLICATION NUMBER: US 60/245,772
; PRIOR FILING DATE: 2000-11-03
; PRIOR APPLICATION NUMBER: US 60/260,363
; PRIOR FILING DATE: 2001-01-08
; NUMBER OF SEQ ID NOS: 81
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 71
; LENGTH: 60
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: receptor mutant
US-09-993-844-71
```

```
Query Match          73.3%; Score 33; DB 3; Length 60;
Best Local Similarity 66.7%; Pred. No. 84;
Matches 6; Conservative 3; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 FQQLFLNTL 9
        ||:|||||
Db       12 FQVFLSTL 20
```

```
RESULT 30
US-11-026-435-69
; Sequence 69, Application US/11026435
; Publication No. US20050106623A1
; GENERAL INFORMATION:
; APPLICANT: Oakley, Robert H.
; APPLICANT: Barak, Lawrence S.
; APPLICANT: Laporte, Stephane A.
; APPLICANT: Caron, Marc G.
; TITLE OF INVENTION: Modified G-Protein Coupled Receptors
; FILE REFERENCE: 033072-026
; CURRENT FILING DATE: 2004-12-30
; PRIOR APPLICATION NUMBER: US/09/993,844
; PRIOR FILING DATE: 2001-11-05
; PRIOR APPLICATION NUMBER: US 60/245,772
; PRIOR FILING DATE: 2000-11-03
; PRIOR APPLICATION NUMBER: US 60/260,363
; PRIOR FILING DATE: 2001-01-08
; NUMBER OF SEQ ID NOS: 82
; SOFTWARE: FastSeq for Windows Version 4.0
```

```

; SEQ ID NO 69
; LENGTH: 60
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: carboxyl-terminal tail of NTR-1
US-11-026-435-69
```

```
Query Match          73.3%; Score 33; DB 6; Length 60;
Best Local Similarity 66.7%; Pred. No. 84;
Matches 6; Conservative 3; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 FQQLFLNTL 9
        ||:|||||
Db       12 FQVFLSTL 20
```

```
RESULT 31
US-11-026-435-70
; Sequence 70, Application US/11026435
; Publication No. US20050106623A1
; GENERAL INFORMATION:
; APPLICANT: Oakley, Robert H.
; APPLICANT: Barak, Lawrence S.
; APPLICANT: Laporte, Stephane A.
; APPLICANT: Caron, Marc G.
; TITLE OF INVENTION: Modified G-Protein Coupled Receptors
; FILE REFERENCE: 033072-026
; CURRENT FILING DATE: 2004-12-30
; PRIOR APPLICATION NUMBER: US/11/026,435
; PRIOR FILING DATE: 2001-11-05
; PRIOR APPLICATION NUMBER: US 60/245,772
; PRIOR FILING DATE: 2000-11-03
; PRIOR APPLICATION NUMBER: US 60/260,363
; PRIOR FILING DATE: 2001-01-08
; NUMBER OF SEQ ID NOS: 82
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 70
; LENGTH: 60
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: receptor mutant
US-11-026-435-70
```

```
Query Match          73.3%; Score 33; DB 6; Length 60;
Best Local Similarity 66.7%; Pred. No. 84;
Matches 6; Conservative 3; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 FQQLFLNTL 9
        ||:|||||
Db       12 FQVFLSTL 20
```

```
RESULT 32
US-11-026-435-71
; Sequence 71, Application US/11026435
; Publication No. US20050106623A1
; GENERAL INFORMATION:
; APPLICANT: Oakley, Robert H.
; APPLICANT: Barak, Lawrence S.
; APPLICANT: Laporte, Stephane A.
; APPLICANT: Caron, Marc G.
; TITLE OF INVENTION: Modified G-Protein Coupled Receptors
; FILE REFERENCE: 033072-026
; CURRENT FILING DATE: 2004-12-30
; PRIOR APPLICATION NUMBER: US/09/993,844
; PRIOR FILING DATE: 2001-11-05
; PRIOR APPLICATION NUMBER: US 60/245,772
; PRIOR FILING DATE: 2000-11-03
; PRIOR APPLICATION NUMBER: US 60/260,363
```

PRIOR FILING DATE: 2001-01-08
NUMBER OF SEQ ID NOS: 82
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 71
LENGTH: 60
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: receptor mutant
US-11-026-435-71

Query Match 73.3%; Score 33; DB 6; Length 60;
Best Local Similarity 66.7%; Pred. No. 84;
Matches 6; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY 1 FOOLFLNTL 9
DB 12 FROVFLSTL 20

RESULT 33

US-10-425-115-354133
Sequence 354133, Application US/10425115
Publication No. US20040214272A1
GENERAL INFORMATION:
APPLICANT: La Rosa, Thomas J.
APPLICANT: Zhou, Yihua
APPLICANT: Cao, Yongwei
TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
FILE REFERENCE: 38-21(53222)B
CURRENT APPLICATION NUMBER: US/10/425,115
CURRENT FILING DATE: 2003-04-28
NUMBER OF SEQ ID NOS: 369326
SEQ ID NO 354133
LENGTH: 65
TYPE: PRT
ORGANISM: Zea mays
FEATURE:
OTHER INFORMATION: Clone ID: MRT4577_86141C.1.pep
US-10-425-115-354133

Query Match 73.3%; Score 33; DB 4; Length 65;
Best Local Similarity 85.7%; Pred. No. 91;
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 FOOLFLN 7
DB 12 YQQLFLN 18

RESULT 34

US-10-425-115-356344
Sequence 356344, Application US/10425115
Publication No. US20040214272A1
GENERAL INFORMATION:
APPLICANT: La Rosa, Thomas J.
APPLICANT: Kovalic, David K.
APPLICANT: Zhou, Yihua
APPLICANT: Cao, Yongwei
TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
FILE REFERENCE: 38-21(53222)B
CURRENT APPLICATION NUMBER: US/10/425,115
CURRENT FILING DATE: 2003-04-28
NUMBER OF SEQ ID NOS: 369326
SEQ ID NO 356344
LENGTH: 122
TYPE: PRT
ORGANISM: Zea mays
FEATURE:
NAME/KEY: unsure

LOCATION: (1) .(122)
OTHER INFORMATION: unsure at all Xaa locations
FEATURE:
OTHER INFORMATION: Clone ID: MRT4577_88155C.1.pep
US-10-425-115-356344

Query Match 73.3%; Score 33; DB 4; Length 122;
Best Local Similarity 77.8%; Pred. No. 1.7e+02;
Matches 7; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 FOOLFLNTL 9
DB 77 FQFLFRNTL 85

RESULT 35

US-10-083-357-786
Sequence 786, Application US/10083357
Publication No. US20030054370A1
GENERAL INFORMATION:
APPLICANT: Qianlong Zeng et al.
TITLE OF INVENTION: Systemic Discovery of New Genes
FILE REFERENCE: 032796-090
CURRENT APPLICATION NUMBER: US/10/083,357
CURRENT FILING DATE: 2002-02-27
NUMBER OF SEQ ID NOS: 1346
SEQ ID NO 786
LENGTH: 133
TYPE: PRT
ORGANISM: Saccharomyces cerevisiae
US-10-083-357-786

Query Match 73.3%; Score 33; DB 4; Length 133;
Best Local Similarity 66.7%; Pred. No. 1.8e+02;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 FOOLFLNTL 9
DB 38 FORMFLQTL 46

RESULT 36

US-10-804-219-7
Sequence 7, Application US/10804219
Publication No. US20040255350A1
GENERAL INFORMATION:
APPLICANT: CHAUDHARY, SARITA
APPLICANT: VAN ROOIJEN, GIJS
APPLICANT: MOLONEY, MAURICE
APPLICANT: SINGH, SURINDER
TITLE OF INVENTION: FLAX SEED SPECIFIC PROMOTERS
FILE REFERENCE: 058187-0109
CURRENT APPLICATION NUMBER: US/10/804,219
CURRENT FILING DATE: 2004-03-19
PRIOR APPLICATION NUMBER: 09/645,593
PRIOR FILING DATE: 2000-08-25
PRIOR APPLICATION NUMBER: 60/151,044
PRIOR FILING DATE: 1999-08-27
PRIOR APPLICATION NUMBER: 60/161,722
PRIOR FILING DATE: 1999-10-27
NUMBER OF SEQ ID NOS: 25
SOFTWARE: PatentIn Ver. 3.2
SEQ ID NO 7
LENGTH: 174
TYPE: PRT
ORGANISM: Linum usitatissimum
US-10-804-219-7

Query Match 73.3%; Score 33; DB 5; Length 174;
Best Local Similarity 66.7%; Pred. No. 2.4e+02;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 FOOLFLNTL 9

Db 93 SEQFVFTL 101

RESULT 37
US-10-915-157-7
; Sequence 7, Application US/10915157
; Publication No. US20050003492A1
; GENERAL INFORMATION:
; APPLICANT: Pfizer Inc.
; APPLICANT: Hartland, Lee
; TITLE OF INVENTION: Novel Polypeptide
; FILE REFERENCE: PCI0361B
; CURRENT APPLICATION NUMBER: US/10/915,157
; CURRENT FILING DATE: 2004-08-09
; PRIOR APPLICATION NUMBER: 9923888.3
; PRIOR FILING DATE: 1999-10-08
; NUMBER OF SEQ ID NOS: 8
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 7
; LENGTH: 424
; TYPE: PRT
; ORGANISM: RAT
US-10-915-157-7

Query Match 73.3%; Score 33; DB 5; Length 424;
Best Local Similarity 66.7%; Pred. No. 5.8e+02;
Matches 6; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

Qy 1 FOQLFNTL 9
Db 376 PROVLSTL 384

RESULT 38
US-10-040-906A-2
; Sequence 2, Application US/10040906A
; Publication No. US20030167517A1
; GENERAL INFORMATION:
; APPLICANT: Arnaut, Greta
; APPLICANT: Boets, Annemie
; APPLICANT: Vanneste, Stijn
; APPLICANT: Van Rie, Jeroen
; APPLICANT: Van Houdt, Sara
; TITLE OF INVENTION: No. US20030167517A1 Bacillus thuringiensis insecticidal protein
; FILE REFERENCE: 58764.000036
; CURRENT APPLICATION NUMBER: US/10/040,906A
; CURRENT FILING DATE: 2002-06-24
; NUMBER OF SEQ ID NOS: 9
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 2
; LENGTH: 632
; TYPE: PRT
; ORGANISM: Bacillus thuringiensis
US-10-040-906A-2

Query Match 73.3%; Score 33; DB 4; Length 632;
Best Local Similarity 87.5%; Pred. No. 8.6e+02;
Matches 7; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 2 QQLFNTL 9
Db 154 QQLFNTL 161

RESULT 39
US-10-040-906A-4
; Sequence 4, Application US/10040906A
; Publication No. US20030167517A1
; GENERAL INFORMATION:
; APPLICANT: Arnaut, Greta
; APPLICANT: Boets, Annemie
; APPLICANT: Vanneste, Stijn

APPLICANT: Van Rie, Jeroen
APPLICANT: Van Houdt, Sara
TITLE OF INVENTION: No. US20030167517A1 Bacillus thuringiensis insecticidal protein
FILE REFERENCE: 58764.000036
CURRENT APPLICATION NUMBER: US/10/040,906A
CURRENT FILING DATE: 2002-06-24
NUMBER OF SEQ ID NOS: 9
SOFTWARE: PatentIn version 3.1
SEQ ID NO 4
LENGTH: 632
TYPE: PRT
ORGANISM: Bacillus thuringiensis
US-10-040-906A-4

Query Match 73.3%; Score 33; DB 4; Length 632;
Best Local Similarity 87.5%; Pred. No. 8.6e+02;
Matches 7; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 2 QQLFNTL 9
Db 154 QQLFNTL 161

RESULT 40
US-10-428-961-2
; Sequence 2, Application US/10428961
; Publication No. US20030237111A1
; GENERAL INFORMATION:
; APPLICANT: Baum, James A.
; APPLICANT: Chu, Chih-Rel
; APPLICANT: Donovan, William P.
; APPLICANT: Gilmer, Amy J.
; APPLICANT: Rupa, Mark J.
; TITLE OF INVENTION: Lepidopteran-Active Bacillus thuringiensis Delta-Endotoxin
; TITLE OF INVENTION: Polynucleotides, Compositions, and Methods of Use (Amended)
; FILE REFERENCE: MECO201--1
; CURRENT APPLICATION NUMBER: US/10/428,961
; CURRENT FILING DATE: 2003-05-02
; PRIOR APPLICATION NUMBER: 09/661,322
; PRIOR FILING DATE: 2000-09-13
; PRIOR APPLICATION NUMBER: 60/153,995
; PRIOR FILING DATE: 1999-09-15
; NUMBER OF SEQ ID NOS: 63
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 2
; LENGTH: 632
; TYPE: PRT
; ORGANISM: Bacillus thuringiensis
US-10-428-961-2

Query Match 73.3%; Score 33; DB 4; Length 632;
Best Local Similarity 87.5%; Pred. No. 8.6e+02;
Matches 7; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 2 QQLFNTL 9
Db 154 QQLFNTL 161

RESULT 41
US-11-067-557-2
; Sequence 2, Application US/11067557
; Publication No. US20050204421A1
; GENERAL INFORMATION:
; APPLICANT: BERMUDEZ, ERICKA
; APPLICANT: EMIG, ROBIN
; APPLICANT: MCBRIDE, KEVIN
; APPLICANT: YAMAMOTO, TAKASHI
; TITLE OF INVENTION: NOVEL BACILLUS THURINGIENSIS CRYSTAL POLYPEPTIDES,
; TITLE OF INVENTION: POLYNUCLEOTIDES, AND COMPOSITIONS THEREOF
; FILE REFERENCE: 2119-4286US1
; CURRENT APPLICATION NUMBER: US/11/067,557
; CURRENT FILING DATE: 2005-02-25

PRIOR APPLICATION NUMBER: 60/547,664
PRIOR FILING DATE: 2004-02-25
NUMBER OF SEQ ID NOS: 261
SOFTWARE: PatentIn Ver. 3.3
SEQ ID NO 2
LENGTH: 632
TYPE: PRT
ORGANISM: Bacillus thuringiensis
US-11-067-557-2

Query Match 73.3%; Score 33; DB 6; Length 632;
Best Local Similarity 87.5%; Pred. No. 8.6e+02;
Matches 7; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2 QOLFLNTL 9
Db 154 QOLFLNRL 161

RESULT 42
US-11-067-557-261
Sequence 261, Application US/11067557
Publication No. US20050204221A1
GENERAL INFORMATION:
APPLICANT: BERMUDEZ, ERICKA
APPLICANT: EMIG, ROBIN
APPLICANT: MCBRIDE, KEVIN
APPLICANT: YAMAMOTO, TATSUHI
TITLE OF INVENTION: NOVEL BACILLUS THURINGIENSIS CRYSTAL POLYPEPTIDES,
FILE REFERENCE: 2119-4286US1
CURRENT APPLICATION NUMBER: US/11/067,557
CURRENT FILING DATE: 2005-02-25
PRIOR APPLICATION NUMBER: 60/547,664
PRIOR FILING DATE: 2004-02-25
NUMBER OF SEQ ID NOS: 261
SOFTWARE: PatentIn Ver. 3.3
SEQ ID NO 261
LENGTH: 632
TYPE: PRT
ORGANISM: Bacillus thuringiensis
US-11-067-557-261

Query Match 73.3%; Score 33; DB 6; Length 632;
Best Local Similarity 87.5%; Pred. No. 8.6e+02;
Matches 7; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2 QOLFLNTL 9
Db 154 QOLFLNRL 161

RESULT 43
US-11-098-545-2
Sequence 2, Application US/11098545
Publication No. US20050216971A1
GENERAL INFORMATION:
APPLICANT: Arnaut, Greta
APPLICANT: Boets, Annemie
APPLICANT: Vanneste, Stijn
APPLICANT: Van Rie, Jeroen
APPLICANT: Van Houdt, Sara
TITLE OF INVENTION: Novel Bacillus thuringiensis insecticidal proteins
FILE REFERENCE: 58764.000036
CURRENT APPLICATION NUMBER: US/11/098,545
CURRENT FILING DATE: 2005-04-05
PRIOR APPLICATION NUMBER: US/10/040,906
PRIOR FILING DATE: 2002-06-24
NUMBER OF SEQ ID NOS: 9
SOFTWARE: PatentIn version 3.1
SEQ ID NO 2
LENGTH: 632
TYPE: PRT

ORGANISM: Bacillus thuringiensis
US-11-098-545-2

Query Match 73.3%; Score 33; DB 6; Length 632;
Best Local Similarity 87.5%; Pred. No. 8.6e+02;
Matches 7; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2 QOLFLNTL 9
Db 154 QOLFLNRL 161

RESULT 44
US-11-098-545-4
Sequence 4, Application US/11098545
Publication No. US20050216971A1
GENERAL INFORMATION:
APPLICANT: Arnaut, Greta
APPLICANT: Boets, Annemie
APPLICANT: Vanneste, Stijn
APPLICANT: Van Rie, Jeroen
APPLICANT: Van Houdt, Sara
TITLE OF INVENTION: Novel Bacillus thuringiensis insecticidal proteins
FILE REFERENCE: 58764.000036
CURRENT APPLICATION NUMBER: US/11/098,545
CURRENT FILING DATE: 2005-04-05
PRIOR APPLICATION NUMBER: US/10/040,906
PRIOR FILING DATE: 2002-06-24
NUMBER OF SEQ ID NOS: 9
SOFTWARE: PatentIn version 3.1
SEQ ID NO 4
LENGTH: 632
TYPE: PRT
ORGANISM: Bacillus thuringiensis
US-11-098-545-4

Query Match 73.3%; Score 33; DB 6; Length 632;
Best Local Similarity 87.5%; Pred. No. 8.6e+02;
Matches 7; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2 QOLFLNTL 9
Db 154 QOLFLNRL 161

RESULT 45
US-10-040-906A-8
Sequence 8, Application US/10040906A
Publication No. US20030167517A1
GENERAL INFORMATION:
APPLICANT: Arnaut, Greta
APPLICANT: Boets, Annemie
APPLICANT: Vanneste, Stijn
APPLICANT: Van Rie, Jeroen
APPLICANT: Van Houdt, Sara
TITLE OF INVENTION: No. US0030167517A1 Bacillus thuringiensis insecticidal proteins
FILE REFERENCE: 58764.000036
CURRENT APPLICATION NUMBER: US/10/040,906A
CURRENT FILING DATE: 2002-06-24
NUMBER OF SEQ ID NOS: 9
SOFTWARE: PatentIn version 3.1
SEQ ID NO 8
LENGTH: 633
TYPE: PRT
ORGANISM: Unknown
FEATURE:
OTHER INFORMATION: Artificial Sequence
US-10-040-906A-8

Query Match 73.3%; Score 33; DB 4; Length 633;
Best Local Similarity 87.5%; Pred. No. 8.6e+02;
Matches 7; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 2 QOLFLNTL 9
Db 155 QOLFLNRL 162

RESULT 46
US-10-198-478-18
; Sequence 18, Application US/10198478
; Publication No. US2003018833561
; GENERAL INFORMATION:
; APPLICANT: Cordin, David R.
; APPLICANT: Romano, Charles P.
; TITLE OF INVENTION: Improved Methods for Transforming Plants to Express delta-Endotox
; FILE REFERENCE: 38-21 (13547) B
; CURRENT APPLICATION NUMBER: US/10/198,478
; CURRENT FILING DATE: 2002-11-12
; PRIOR APPLICATION NUMBER: 09/186, 002
; PRIOR FILING DATE: 1998-11-04
; NUMBER OF SEQ ID NOS: 18
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 18
; LENGTH: 633
; TYPE: PRT
; ORGANISM: Bacillus thuringiensis
US-10-198-478-18

Query Match 73.3%; Score 33; DB 4; Length 633;
Best Local Similarity 87.5%; Pred. No. 8.6e+02;
Matches 7; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 2 QOLFLNTL 9
Db 154 QOLFLNRL 161

RESULT 47
US-10-782-020-8
; Sequence 8, Application US/10782020
; Publication No. US20040197916A1
; GENERAL INFORMATION:
; APPLICANT: Carozzi, Nadine
; APPLICANT: Hargiss, Tracy
; APPLICANT: Kozziel, Michael G.
; APPLICANT: Duck, Nicholas B.
; APPLICANT: Carr, Brian
; TITLE OF INVENTION: AXMI-004, A Delta-Endotoxin Gene and
; TITLE OF INVENTION: Methods for Its Use
; FILE REFERENCE: 045600/274139
; CURRENT APPLICATION NUMBER: US/10/782,020
; CURRENT FILING DATE: 2004-02-19
; PRIOR APPLICATION NUMBER: 60/448,810
; PRIOR FILING DATE: 2003-02-20
; NUMBER OF SEQ ID NOS: 11
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 8
; LENGTH: 633
; TYPE: PRT
; ORGANISM: Bacillus thuringiensis
US-10-782-020-8

Query Match 73.3%; Score 33; DB 4; Length 633;
Best Local Similarity 87.5%; Pred. No. 8.6e+02;
Matches 7; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 2 QOLFLNTL 9
Db 154 QOLFLNRL 161

RESULT 48
US-10-782-141-9
; Sequence 9, Application US/10782141
; Publication No. US20040197917A1

; GENERAL INFORMATION:
; APPLICANT: Carozzi, Nadine
; APPLICANT: Hargiss, Tracy
; APPLICANT: Kozziel, Michael G.
; APPLICANT: Duck, Nicholas B.
; APPLICANT: Carr, Brian
; TITLE OF INVENTION: AXMI-014, A Delta-Endotoxin Gene and
; TITLE OF INVENTION: Methods for Its Use
; FILE REFERENCE: 045600/274143
; CURRENT APPLICATION NUMBER: US/10/782,141
; CURRENT FILING DATE: 2004-02-20
; PRIOR APPLICATION NUMBER: 60/448,632
; PRIOR FILING DATE: 2003-02-20
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 9
; LENGTH: 633
; TYPE: PRT
; ORGANISM: Bacillus thuringiensis
US-10-782-141-9

Query Match 73.3%; Score 33; DB 4; Length 633;
Best Local Similarity 87.5%; Pred. No. 8.6e+02;
Matches 7; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 2 QOLFLNTL 9
Db 154 QOLFLNRL 161

RESULT 49
US-10-781-979-11
; Sequence 11, Application US/10781979
; Publication No. US20040250311A1
; GENERAL INFORMATION:
; APPLICANT: Carozzi, Nadine
; APPLICANT: Hargiss, Tracy
; APPLICANT: Kozziel, Michael G.
; APPLICANT: Duck, Nicholas B.
; APPLICANT: Carr, Brian
; TITLE OF INVENTION: AXMI-008, A Delta-Endotoxin Gene and
; TITLE OF INVENTION: Methods for Its Use
; FILE REFERENCE: 045600/274147
; CURRENT APPLICATION NUMBER: US/10/781,979
; CURRENT FILING DATE: 2004-02-20
; PRIOR APPLICATION NUMBER: 60/448,797
; PRIOR FILING DATE: 2003-02-20
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 11
; LENGTH: 633
; TYPE: PRT
; ORGANISM: Bacillus thuringiensis
US-10-781-979-11

Query Match 73.3%; Score 33; DB 5; Length 633;
Best Local Similarity 87.5%; Pred. No. 8.6e+02;
Matches 7; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 2 QOLFLNTL 9
Db 154 QOLFLNRL 161

RESULT 50
US-10-926-819-12
; Sequence 12, Application US/10926819
; Publication No. US20050049410A1
; GENERAL INFORMATION:
; APPLICANT: Carozzi, Nadine
; APPLICANT: Hargiss, Tracy
; APPLICANT: Kozziel, Michael G.
; APPLICANT: Duck, Nicholas B.

; APPLICANT: Carr, Brian
; TITLE OF INVENTION: AXMT-003, A Delta-Endotoxin Gene and
; TITLE OF INVENTION: Methods for its Use
; FILE REFERENCE: 045600/281577
; CURRENT APPLICATION NUMBER: US/10/926, 819
; CURRENT FILING DATE: 2004-08-26
; PRIOR APPLICATION NUMBER: 60/498,518
; PRIOR FILING DATE: 2003-08-28
; NUMBER OF SEQ ID NOS: 31
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 12
; LENGTH: 633
; TYPE: PRT
; ORGANISM: Bacillus thuringiensis serovar kurstaki
US-10-926-819-12

Query Match 73.3%; Score 33; DB 5; Length 633;
Best Local Similarity 87.5%; Pred. No. 8.6e+02;
Matches 7; Conservative 0; Mismatches 1; Indels 0;

QY 2 QQLFLNTL 9
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154 QQLFLNRL 161

Search completed: May 5, 2006, 08:07:08
Job time : 63 secs

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OM protein - protein search, using sw model

Run on: May 5, 2006, 07:56:56 ; Search time 8.4 Seconds
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Perfect score: 45
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Gapop 10.0 , Gapext 0.5

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Total number of hits satisfying chosen parameters: 235405

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Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 1000 summaries

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8: /SIDSS/ptodata/1/pubppaa/US10_NEW_PUB.pep.*
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Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

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1	45	100.0	15	9	US-10-530-061-1718
2	45	100.0	15	9	US-10-530-061-1719
3	45	100.0	105	9	US-10-530-253-27
4	34	75.6	15	9	US-10-530-061-1729
5	34	75.6	15	9	US-10-530-061-1730
6	34	75.6	106	9	US-10-530-253-32
7	33	73.3	368	11	US-11-188-298-21315
8	33	73.3	419	9	US-10-467-657-6396
9	33	73.3	419	9	US-10-467-657-7614
10	32	71.1	107	9	US-10-530-253-37
11	32	71.1	336	11	US-11-087-099-1547
12	32	71.1	336	10	US-11-303-252-20
13	32	71.1	396	11	US-11-114-922-76
14	32	71.1	572	11	US-11-045-004-33
15	31	68.9	278	11	US-11-098-686-10324
16	31	68.9	310	11	US-11-079-463-5515
17	31	68.9	359	11	US-11-079-463-9689
18	31	68.9	652	11	US-11-193-801-2
19	31	68.9	652	11	US-11-192-801-6
20	31	68.9	653	11	US-11-192-801-8
21	31	68.9	653	11	US-11-192-801-10

22	31	68.9	653	11	US-11-192-801-12	Sequence 12, Appl
23	31	68.9	653	11	US-11-192-801-14	Sequence 14, Appl
24	31	68.9	653	11	US-11-192-801-16	Sequence 16, Appl
25	31	68.9	653	11	US-11-192-801-18	Sequence 18, Appl
26	31	68.9	653	11	US-11-192-801-20	Sequence 20, Appl
27	31	68.9	653	11	US-11-192-801-22	Sequence 22, Appl
28	31	68.9	653	11	US-11-192-801-24	Sequence 24, Appl
29	31	68.9	653	11	US-11-192-801-37	Sequence 37, Appl
30	31	68.9	653	11	US-11-192-801-39	Sequence 39, Appl
31	31	68.9	988	9	US-10-472-808A-2	Sequence 2, Appl
32	31	68.9	988	9	US-10-472-808A-4	Sequence 4, Appl
33	31	68.9	988	9	US-10-472-808A-5	Sequence 5, Appl
34	30	66.7	331	8	US-10-511-455-31	Sequence 31, Appl
35	30	66.7	356	11	US-11-087-099-6581	Sequence 6581, Ap
36	30	66.7	400	11	US-11-051-724-34	Sequence 34, Appl
37	30	66.7	447	11	US-10-858-730-219	Sequence 219, Ap
38	30	66.7	447	11	US-11-055-822-94	Sequence 94, Appl
39	30	66.7	458	11	US-11-045-004-2036	Sequence 2036, Ap
40	30	66.7	460	9	US-10-858-730-63	Sequence 63, Appl
41	30	66.7	490	11	US-11-051-724-32	Sequence 32, Appl
42	30	66.7	509	11	US-11-188-298-4397	Sequence 4397, Ap
43	30	66.7	515	9	US-10-821-234-1211	Sequence 1211, Ap
44	30	66.7	538	9	US-10-793-626-260	Sequence 260, App
45	30	66.7	666	11	US-11-188-298-9051	Sequence 9051, Ap
46	30	66.7	8695	11	US-11-205-109-15	Sequence 15, Appl
47	29	64.4	8	9	US-10-530-061-864	Sequence 864, App
48	29	64.4	56	11	US-11-123-241-112	Sequence 112, App
49	29	64.4	225	11	US-11-096-568A-16374	Sequence 16374, A
50	29	64.4	302	9	US-10-793-626-2980	Sequence 2980, Ap
51	29	64.4	349	11	US-11-096-568A-16373	Sequence 16373, A
52	29	64.4	444	11	US-11-096-568A-16373	Sequence 24743, A
53	29	64.4	448	9	US-10-858-730-64	Sequence 64, Appl
54	29	64.4	449	9	US-10-793-799B-42	Sequence 42, Appl
55	29	64.4	459	10	US-11-302-862-2	Sequence 2, Appl
56	29	64.4	461	9	US-10-858-730-62	Sequence 62, Appl
57	29	64.4	492	11	US-11-045-004-2160	Sequence 2160, Ap
58	29	64.4	525	11	US-11-098-686-10516	Sequence 10516, A
59	29	64.4	665	11	US-11-188-298-7401	Sequence 7401, Ap
60	28	62.2	47	9	US-10-467-657-2746	Sequence 2746, Ap
61	28	62.2	70	11	US-11-079-463-6791	Sequence 6791, Ap
62	28	62.2	99	11	US-11-079-463-7446	Sequence 7446, Ap
63	28	62.2	109	9	US-10-530-253-31	Sequence 31, Appl
64	28	62.2	110	9	US-10-530-253-38	Sequence 38, Appl
65	28	62.2	132	11	US-11-186-284-83	Sequence 83, Appl
66	28	62.2	132	11	US-11-038-676-6	Sequence 6, Appl
67	28	62.2	167	11	US-11-018-668-53	Sequence 53, Appl
68	28	62.2	167	11	US-11-018-668-59	Sequence 59, Appl
69	28	62.2	182	11	US-11-087-099-7382	Sequence 7382, Ap
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71	28	62.2	182	9	US-10-467-657-3898	Sequence 3898, Ap
72	28	62.2	202	11	US-11-072-512-2489	Sequence 2489, Ap
73	28	62.2	224	11	US-11-072-512-2601	Sequence 2601, Ap
74	28	62.2	224	11	US-11-045-004-1560	Sequence 1560, Ap
75	28	62.2	225	11	US-11-096-568A-22513	Sequence 22513, A
76	28	62.2	237	11	US-11-096-568A-31128	Sequence 31128, A
77	28	62.2	242	11	US-11-096-568A-31127	Sequence 31127, A
78	28	62.2	250	11	US-11-079-463-5894	Sequence 5894, Ap
79	28	62.2	253	11	US-11-096-568A-31126	Sequence 31126, A
80	28	62.2	315	11	US-11-096-568A-31650	Sequence 19690, A
81	28	62.2	323	11	US-11-079-463-6833	Sequence 6833, Ap
82	28	62.2	334	11	US-11-096-568A-19689	Sequence 4735, Ap
83	28	62.2	334	11	US-11-096-568A-31651	Sequence 31651, A
84	28	62.2	346	11	US-11-096-568A-31660	Sequence 31660, A
85	28	62.2	346	11	US-11-172-740-657	Sequence 657, App
86	28	62.2	362	11	US-11-188-298-18895	Sequence 18895, A
87	28	62.2	362	11	US-11-172-740-658	Sequence 18895, A
88	28	62.2	373	11	US-11-172-740-658	Sequence 658, App
89	28	62.2	373	11	US-11-172-740-659	Sequence 659, App
90	28	62.2	373	11	US-11-172-740-661	Sequence 661, App
91	28	62.2	373	11	US-11-172-740-662	Sequence 662, App
92	28	62.2	373	11	US-11-172-740-663	Sequence 663, App
93	28	62.2	409	11	US-11-188-298-3216	Sequence 3216, Ap
94	28	62.2	409	11	US-11-188-298-3216	Sequence 3216, Ap

95	28	62.2	409	11	US-11-188-298-12135	Sequence 12135, A	168	27	60.0	744	11	US-11-052-554A-112	Sequence 112, App
96	28	62.2	409	11	US-11-188-298-17265	Sequence 17265, A	169	27	60.0	759	11	US-11-098-686-11030	Sequence 11030, A
97	28	62.2	417	11	US-11-188-298-19555	Sequence 19555, Ap	170	27	60.0	817	11	US-11-165-815-2	Sequence 2, App1
98	28	62.2	428	11	US-11-096-568A-22512	Sequence 22512, A	171	27	60.0	819	9	US-10-453-372-1210	Sequence 1210, Ap
99	28	62.2	444	9	US-10-467-657-2414	Sequence 2414, Ap	172	27	60.0	832	9	US-10-989-767A-660	Sequence 660, App
100	28	62.2	521	11	US-11-087-059-1124	Sequence 1124, Ap	173	27	60.0	853	9	US-10-877-346-30	Sequence 30, App1
101	28	62.2	525	9	US-10-878-556A-171	Sequence 171, App	174	27	60.0	866	11	US-11-147-047-132	Sequence 32, App1
102	28	62.2	552	11	US-11-052-554A-168	Sequence 168, App	175	27	60.0	876	9	US-10-453-372-1202	Sequence 1202, Ap
103	28	62.2	646	11	US-11-087-099-10725	Sequence 10725, A	176	27	60.0	876	9	US-10-453-372-1208	Sequence 1208, Ap
104	28	62.2	646	11	US-11-188-298-9913	Sequence 9913, Ap	177	27	60.0	1451	9	US-10-745-586-186	Sequence 186, App
105	28	62.2	689	11	US-11-079-463-6382	Sequence 6382, Ap	178	27	60.0	1673	11	US-11-096-568A-32699	Sequence 32699, A
106	28	62.2	690	11	US-11-188-298-4352	Sequence 4352, Ap	179	27	60.0	1769	11	US-11-096-568A-32698	Sequence 32698, A
107	28	62.2	698	11	US-11-087-099-8952	Sequence 8952, Ap	180	27	60.0	1769	11	US-11-096-568A-32697	Sequence 32697, A
108	28	62.2	698	11	US-11-087-099-9341	Sequence 9341, Ap	181	27	60.0	2004	9	US-10-467-657-84	Sequence 84, App1
109	28	62.2	698	11	US-11-188-298-8655	Sequence 8685, Ap	182	27	60.0	2004	9	US-10-467-657-6322	Sequence 6322, Ap
110	28	62.2	698	11	US-11-188-298-19289	Sequence 19289, A	183	27	60.0	2431	9	US-10-958-267-6	Sequence 6, App1
111	28	62.2	743	11	US-11-045-004-2016	Sequence 2016, Ap	184	27	60.0	2431	9	US-10-958-267-8	Sequence 8, App1
112	28	62.2	1053	9	US-10-330-773-34	Sequence 34, App1	185	27	60.0	2432	9	US-10-958-267-9	Sequence 9, App1
113	28	62.2	1063	9	US-10-330-773-31	Sequence 31, App1	186	27	60.0	2432	9	US-10-958-267-12	Sequence 12, App1
114	28	62.2	1085	9	US-10-330-773-36	Sequence 36, App1	187	27	60.0	3343	11	US-11-122-396-7	Sequence 7, App1
115	28	62.2	1087	11	US-11-102-978-2	Sequence 2, App1	188	27	60.0	6893	11	US-11-203-109-14	Sequence 14, App1
116	28	62.2	1119	9	US-10-131-826A-352	Sequence 352, App	189	26	57.8	48	9	US-10-467-657-9156	Sequence 9156, Ap
117	28	62.2	1119	9	US-10-973-115B-352	Sequence 352, App	190	26	57.8	58	11	US-11-264-096-334	Sequence 324, App
118	28	62.2	1119	9	US-10-137-873A-352	Sequence 352, App	191	26	57.8	58	11	US-11-264-096-338	Sequence 328, App
119	28	62.2	1119	9	US-10-152-370-352	Sequence 352, App	192	26	57.8	62	9	US-10-467-657-6646	Sequence 6646, Ap
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122	28	62.2	1137	9	US-10-194-487-518	Sequence 518, App	195	26	57.8	140	11	US-11-045-004-2587	Sequence 2587, Ap
123	28	62.2	1137	9	US-10-195-883-518	Sequence 518, App	196	26	57.8	142	11	US-11-045-004-1070	Sequence 1070, Ap
124	28	62.2	1137	9	US-10-195-888-518	Sequence 518, App	197	26	57.8	162	11	US-10-511-937-2499	Sequence 2499, Ap
125	28	62.2	1137	9	US-10-195-889-518	Sequence 518, App	198	26	57.8	162	11	US-11-174-398-9	Sequence 9, App1
126	28	62.2	1324	9	US-10-915-002-354	Sequence 354, App	199	26	57.8	162	11	US-11-202-387-2	Sequence 2, App1
127	28	62.2	1324	9	US-10-915-002-324	Sequence 324, App	200	26	57.8	168	11	US-11-098-686-1411	Sequence 10411, A
128	27	60.0	41	11	US-11-096-568A-12009	Sequence 12009, A	201	26	57.8	174	9	US-10-467-657-5350	Sequence 5350, App
129	27	60.0	72	11	US-11-079-463-9196	Sequence 9196, Ap	202	26	57.8	181	9	US-10-644-807-242	Sequence 242, App
130	27	60.0	152	11	US-11-045-004-129	Sequence 129, App	203	26	57.8	183	11	US-11-079-463-9050	Sequence 9050, Ap
131	27	60.0	194	11	US-11-096-568A-23881	Sequence 23881, A	204	26	57.8	189	11	US-11-098-686-11293	Sequence 11293, A
132	27	60.0	210	11	US-11-096-568A-23880	Sequence 23880, A	205	26	57.8	209	11	US-11-079-463-5312	Sequence 5312, Ap
133	27	60.0	237	11	US-11-098-686-11055	Sequence 11055, A	206	26	57.8	228	11	US-11-096-568A-11912	Sequence 31912, A
134	27	60.0	246	9	US-10-131-826A-244	Sequence 244, App	207	26	57.8	242	11	US-11-188-298-4176	Sequence 4176, Ap
135	27	60.0	246	9	US-10-973-115B-244	Sequence 244, App	208	26	57.8	268	9	US-10-506-455-894	Sequence 894, App
136	27	60.0	246	9	US-10-137-873A-244	Sequence 244, App	209	26	57.8	269	8	US-10-511-455-19	Sequence 19, App
137	27	60.0	246	9	US-10-152-370-244	Sequence 244, App	210	26	57.8	270	11	US-11-188-298-7026	Sequence 7026, Ap
138	27	60.0	246	11	US-11-290-153-244	Sequence 244, App	211	26	57.8	273	8	US-10-511-814-1	Sequence 1, App1
139	27	60.0	247	9	US-10-703-799B-76	Sequence 76, App1	212	26	57.8	283	9	US-10-455-772-944	Sequence 944, App
140	27	60.0	259	11	US-11-118-855-1	Sequence 1, App1	213	26	57.8	299	9	US-10-455-772-954	Sequence 954, App
141	27	60.0	277	11	US-11-096-568A-5056	Sequence 5056, Ap	214	26	57.8	308	8	US-10-511-455-23	Sequence 23, App1
142	27	60.0	279	8	US-10-505-928-623	Sequence 623, App	215	26	57.8	308	8	US-10-511-455-25	Sequence 25, App1
143	27	60.0	281	11	US-11-096-568A-5055	Sequence 5055, Ap	216	26	57.8	314	8	US-10-511-455-21	Sequence 21, App1
144	27	60.0	311	11	US-11-106-715-79	Sequence 79, App1	217	26	57.8	327	9	US-10-055-877-337	Sequence 337, App
145	27	60.0	324	9	US-10-511-314-19	Sequence 19, App1	218	26	57.8	328	11	US-11-188-298-13153	Sequence 13153, A
146	27	60.0	324	9	US-10-511-722-19	Sequence 19, App1	219	26	57.8	329	11	US-11-188-298-20083	Sequence 20083, A
147	27	60.0	350	11	US-11-098-686-10238	Sequence 10238, A	220	26	57.8	331	9	US-10-455-772-946	Sequence 946, App
148	27	60.0	357	11	US-11-072-512-3150	Sequence 3150, Ap	221	26	57.8	336	11	US-11-098-686-10419	Sequence 10419, A
149	27	60.0	360	9	US-10-467-657-6844	Sequence 6844, Ap	222	26	57.8	337	9	US-10-644-807-335	Sequence 335, App
150	27	60.0	373	11	US-11-172-740-660	Sequence 660, App	223	26	57.8	343	11	US-11-045-004-2070	Sequence 2070, Ap
151	27	60.0	399	11	US-11-188-298-8512	Sequence 8512, Ap	224	26	57.8	347	8	US-10-511-455-17	Sequence 17, App1
152	27	60.0	408	11	US-11-188-298-20991	Sequence 20991, A	225	26	57.8	347	11	US-11-087-099-4743	Sequence 4743, Ap
153	27	60.0	449	11	US-11-079-463-8741	Sequence 8741, Ap	226	26	57.8	347	11	US-11-188-298-15355	Sequence 15355, A
154	27	60.0	489	11	US-11-188-298-7248	Sequence 7248, Ap	227	26	57.8	347	11	US-11-188-298-15355	Sequence 15355, A
155	27	60.0	505	9	US-10-873-528-120	Sequence 120, App	228	26	57.8	348	8	US-10-505-928-399	Sequence 399, App
156	27	60.0	541	11	US-11-118-855-26	Sequence 26, App1	229	26	57.8	348	8	US-10-511-455-15	Sequence 15, App1
157	27	60.0	566	9	US-10-491-468-21	Sequence 21, App1	230	26	57.8	348	8	US-10-511-455-27	Sequence 27, App1
158	27	60.0	587	11	US-11-087-099-9951	Sequence 9951, Ap	231	26	57.8	348	9	US-10-821-234-1402	Sequence 1402, Ap
159	27	60.0	596	9	US-10-453-372-1212	Sequence 1212, Ap	232	26	57.8	350	8	US-10-511-455-29	Sequence 29, App1
160	27	60.0	600	9	US-10-453-372-1204	Sequence 1204, Ap	233	26	57.8	351	11	US-11-188-298-21062	Sequence 21062, A
161	27	60.0	609	11	US-10-453-372-1206	Sequence 1206, Ap	234	26	57.8	356	11	US-11-188-298-5172	Sequence 5172, A
162	27	60.0	629	11	US-11-098-686-11359	Sequence 11359, A	235	26	57.8	357	11	US-11-087-099-11857	Sequence 11857, A
163	27	60.0	672	11	US-11-000-463-455	Sequence 455, App	236	26	57.8	359	9	US-10-455-772-953	Sequence 952, App
164	27	60.0	715	9	US-10-915-002-344	Sequence 344, App	237	26	57.8	360	11	US-11-116-881A-524	Sequence 524, App
165	27	60.0	715	9	US-10-915-002-346	Sequence 346, App	238	26	57.8	363	9	US-10-455-772-950	Sequence 950, App
166	27	60.0	742	11	US-10-915-002-353	Sequence 353, App	239	26	57.8	374	11	US-11-072-512-3578	Sequence 3578, Ap
167	27	60.0	742	11	US-11-072-512-2807	Sequence 2807, App	240	26	57.8	375	9	US-10-455-772-942	Sequence 942, App

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242	26	57.8	380	11	US-11-045-004-2011	Sequence 2011, Ap	315	26	57.8	826	9	US-10-878-556A-68	Sequence 68, Appl
243	26	57.8	382	11	US-11-188-298-1702	Sequence 1702, Ap	316	26	57.8	854	11	US-11-188-298-19848	Sequence 19848, A
244	26	57.8	384	11	US-11-087-009-6519	Sequence 6519, Ap	317	26	57.8	928	11	US-11-199-223-1	Sequence 1, Appl1
245	26	57.8	401	11	US-11-096-568A-2315	Sequence 23125, A	318	26	57.8	994	11	US-11-079-463-9386	Sequence 266, App
246	26	57.8	403	11	US-11-096-568A-21865	Sequence 21865, A	319	26	57.8	1089	9	US-10-194-487-266	Sequence 266, App
247	26	57.8	410	11	US-11-188-298-21499	Sequence 21499, A	320	26	57.8	1089	9	US-10-195-883-266	Sequence 266, App
248	26	57.8	419	11	US-11-188-298-13229	Sequence 13229, A	321	26	57.8	1089	9	US-10-195-888-266	Sequence 266, App
249	26	57.8	420	9	US-10-935-494-3	Sequence 3, Appl1	322	26	57.8	1089	9	US-10-195-889-266	Sequence 266, App
250	26	57.8	420	11	US-11-188-298-4066	Sequence 4066, Ap	323	26	57.8	1186	11	US-11-053-100-46	Sequence 46, Appl
251	26	57.8	420	11	US-11-188-298-8750	Sequence 8750, Ap	324	26	57.8	1186	11	US-10-204-633-34	Sequence 34, Appl
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256	26	57.8	424	11	US-11-188-298-12182	Sequence 12182, A	329	26	57.8	1788	11	US-10-505-928-780	Sequence 780, App
257	26	57.8	425	11	US-11-188-298-5065	Sequence 5065, Ap	330	26	57.8	1788	11	US-11-052-5544A-372	Sequence 372, App
258	26	57.8	426	11	US-11-096-568A-21884	Sequence 21884, A	331	26	57.8	1788	11	US-11-089-508-4	Sequence 4, Appl1
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260	26	57.8	426	11	US-11-188-298-8145	Sequence 8145, Ap	333	26	57.8	1788	11	US-11-126-313-30	Sequence 30, Appl
261	26	57.8	434	11	US-11-087-099-8145	Sequence 8145, Ap	334	26	57.8	2209	10	US-11-301-354-1303	Sequence 639, App
262	26	57.8	434	11	US-11-188-298-7522	Sequence 7522, Ap	335	26	57.8	2221	11	US-11-126-313-30	Sequence 31, Appl
263	26	57.8	441	10	US-11-242-111-29	Sequence 29, App	336	26	57.8	2221	11	US-11-126-313-30	Sequence 30, Appl
264	26	57.8	445	9	US-10-821-234-1606	Sequence 1606, App	337	26	57.8	2385	9	US-10-510-941-8	Sequence 8, Appl1
265	26	57.8	446	11	US-11-206-587-19	Sequence 19, Appl	338	26	57.8	3674	11	US-11-000-463-454	Sequence 454, App
266	26	57.8	447	9	US-10-858-730-220	Sequence 220, App	339	25.5	56.7	433	11	US-11-087-099-5376	Sequence 5376, App
267	26	57.8	447	11	US-11-265-288-10	Sequence 10, Appl	340	25.5	56.7	433	11	US-11-087-099-9927	Sequence 9927, Ap
268	26	57.8	453	11	US-11-188-298-3467	Sequence 3467, Ap	341	25.5	56.7	456	11	US-11-087-099-3533	Sequence 3533, Ap
269	26	57.8	463	11	US-11-116-881A-484	Sequence 494, App	342	25.5	56.7	461	11	US-11-087-099-2925	Sequence 2925, Ap
270	26	57.8	467	11	US-11-188-298-17127	Sequence 17127, A	343	25.5	56.7	461	11	US-11-087-099-4376	Sequence 4376, Ap
271	26	57.8	468	11	US-11-096-568A-21883	Sequence 21883, A	344	25.5	56.7	461	11	US-11-087-099-9669	Sequence 9669, Ap
272	26	57.8	471	11	US-11-079-463-9383	Sequence 9383, A	345	25.5	56.7	479	11	US-11-087-099-4490	Sequence 4490, Ap
273	26	57.8	487	11	US-11-076-733-15	Sequence 15, Appl	346	25.5	56.7	479	11	US-11-087-099-10324	Sequence 10324, A
274	26	57.8	514	11	US-11-079-463-9784	Sequence 9784, Ap	347	25.5	56.7	479	11	US-11-087-099-11713	Sequence 11713, A
275	26	57.8	515	11	US-11-188-298-1441	Sequence 1441, Ap	348	25	55.6	15	9	US-10-895-064-2666	Sequence 2666, Ap
276	26	57.8	516	11	US-11-188-298-2062	Sequence 2062, Ap	349	25	55.6	15	9	US-10-530-061-1732	Sequence 1732, Ap
277	26	57.8	517	9	US-10-878-556A-23	Sequence 23, Appl	350	25	55.6	15	9	US-10-530-061-1733	Sequence 1733, Ap
278	26	57.8	517	9	US-10-784-004-718	Sequence 718, App	351	25	55.6	15	11	US-11-129-741-2666	Sequence 2666, Ap
279	26	57.8	519	11	US-11-188-298-16691	Sequence 16691, A	352	25	55.6	16	11	US-11-129-741-3444	Sequence 3444, Ap
280	26	57.8	519	11	US-11-188-298-21558	Sequence 21558, A	353	25	55.6	19	11	US-11-004-399-3032	Sequence 3032, Ap
281	26	57.8	521	9	US-10-934-944-270	Sequence 270, App	354	25	55.6	40	9	US-10-895-064-2278	Sequence 2278, Ap
282	26	57.8	521	9	US-10-934-944-274	Sequence 274, App	355	25	55.6	40	9	US-10-895-064-2557	Sequence 2557, Ap
283	26	57.8	521	11	US-11-116-881A-259	Sequence 259, App	356	25	55.6	40	11	US-11-129-741-2278	Sequence 2278, Ap
284	26	57.8	521	11	US-11-116-881A-279	Sequence 279, App	357	25	55.6	40	11	US-11-129-741-2557	Sequence 2557, Ap
285	26	57.8	521	11	US-11-116-881A-283	Sequence 283, App	358	25	55.6	62	9	US-10-467-657-8114	Sequence 8114, Ap
286	26	57.8	526	11	US-11-096-568A-23123	Sequence 23123, A	359	25	55.6	62	11	US-11-079-463-7926	Sequence 7926, Ap
287	26	57.8	538	9	US-10-793-626-1760	Sequence 1760, Ap	360	25	55.6	86	11	US-11-096-568A-3295	Sequence 3295, Ap
288	26	57.8	573	11	US-11-079-463-9814	Sequence 9814, Ap	361	25	55.6	86	11	US-11-188-298-17253	Sequence 17253, A
289	26	57.8	574	9	US-10-527-771-14	Sequence 14, Appl	362	25	55.6	90	9	US-11-188-855-13	Sequence 13, Appl
290	26	57.8	601	11	US-11-045-004-2030	Sequence 2030, Ap	363	25	55.6	93	9	US-10-131-826A-500	Sequence 500, App
291	26	57.8	604	11	US-11-136-244-12	Sequence 12, Appl	364	25	55.6	93	9	US-10-973-115B-500	Sequence 500, App
292	26	57.8	632	11	US-11-188-298-4558	Sequence 4558, Ap	365	25	55.6	93	9	US-10-218-784-176	Sequence 176, App
293	26	57.8	638	11	US-11-188-298-3050	Sequence 3050, Ap	366	25	55.6	93	9	US-10-219-061-176	Sequence 176, App
294	26	57.8	645	11	US-11-188-298-2327	Sequence 2327, App	367	25	55.6	93	9	US-10-219-062-176	Sequence 176, App
295	26	57.8	652	11	US-11-192-801-4	Sequence 4, Appl1	368	25	55.6	93	9	US-10-219-064-176	Sequence 176, App
296	26	57.8	669	9	US-10-203-486-12	Sequence 12, Appl	369	25	55.6	93	9	US-10-233-134-176	Sequence 176, App
297	26	57.8	671	11	US-11-079-463-8638	Sequence 8638, Ap	370	25	55.6	93	9	US-10-137-873A-500	Sequence 500, App
298	26	57.8	672	11	US-11-045-004-300	Sequence 300, App	371	25	55.6	93	9	US-10-152-370-500	Sequence 500, App
299	26	57.8	701	9	US-10-517-939-6	Sequence 6, Appl1	372	25	55.6	93	9	US-10-948-571-95	Sequence 95, Appl
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301	26	57.8	721	11	US-11-079-463-10252	Sequence 10252, A	374	25	55.6	93	11	US-11-290-153-500	Sequence 500, App
302	26	57.8	736	11	US-11-053-100-45	Sequence 45, Appl	375	25	55.6	99	9	US-10-530-253-34	Sequence 34, Appl
303	26	57.8	752	11	US-11-087-099-11284	Sequence 11284, A	376	25	55.6	104	11	US-11-079-463-8824	Sequence 8234, Ap
304	26	57.8	754	11	US-11-087-099-8858	Sequence 8858, Ap	377	25	55.6	104	11	US-11-004-399-2767	Sequence 2767, Ap
305	26	57.8	754	11	US-11-188-298-8221	Sequence 8221, Ap	378	25	55.6	106	11	US-11-079-463-10113	Sequence 10113, A
306	26	57.8	760	11	US-11-087-099-1634	Sequence 1634, Ap	379	25	55.6	109	11	US-11-079-463-10113	Sequence 10113, A
307	26	57.8	760	11	US-11-087-099-8966	Sequence 8966, Ap	380	25	55.6	114	11	US-11-096-568A-3886	Sequence 3886, Ap
308	26	57.8	760	11	US-11-188-298-19308	Sequence 19308, A	381	25	55.6	115	11	US-11-004-399-2423	Sequence 2423, Ap
309	26	57.8	786	11	US-11-079-463-8103	Sequence 8103, Ap	382	25	55.6	117	11	US-11-000-463-271	Sequence 271, App
310	26	57.8	795	9	US-10-821-234-1002	Sequence 1002, Ap	383	25	55.6	120	11	US-11-072-512-213	Sequence 2133, Ap
311	26	57.8	795	11	US-11-188-298-1763	Sequence 1763, Ap	384	25	55.6	125	11	US-11-080-991-28	Sequence 28, Appl
312	26	57.8	796	11	US-11-188-298-1783	Sequence 1783, Ap	385	25	55.6	125	11	US-11-186-284-81	Sequence 81, Appl
313	26	57.8	798	11	US-11-096-568A-31861	Sequence 31861, A	386	25	55.6	125	11	US-11-038-676-8	Sequence 8, Appl1

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388	25	55.6	128	11	US-11-098-686-11042	Sequence 11042, A	461	25	55.6	355	11	US-11-087-099-8468	Sequence 8468, Ap
389	25	55.6	130	11	US-11-087-099-4118	Sequence 4118, Ap	462	25	55.6	356	11	US-11-087-099-3387	Sequence 3387, Ap
390	25	55.6	132	11	US-11-079-463-7759	Sequence 7759, Ap	463	25	55.6	356	11	US-11-087-099-7253	Sequence 7253, Ap
391	25	55.6	136	7	US-09-978-360A-607	Sequence 607, App	464	25	55.6	359	11	US-11-087-227-6	Sequence 6, App11
392	25	55.6	140	11	US-11-124-367A-455	Sequence 455, App	465	25	55.6	359	11	US-11-192-450-6	Sequence 6, App11
393	25	55.6	140	11	US-11-087-099-12427	Sequence 12427, A	466	25	55.6	363	11	US-11-087-099-4555	Sequence 4555, Ap
394	25	55.6	144	9	US-10-467-657-7734	Sequence 7734, Ap	467	25	55.6	363	11	US-11-264-096-103	Sequence 103, App
395	25	55.6	144	11	US-11-072-512-2578	Sequence 2578, Ap	468	25	55.6	365	11	US-11-264-096-180	Sequence 180, App
396	25	55.6	147	11	US-11-087-099-2007	Sequence 2007, Ap	469	25	55.6	367	11	US-11-188-298-14001	Sequence 14001, A
397	25	55.6	150	11	US-11-079-463-8688	Sequence 8688, Ap	470	25	55.6	368	11	US-11-087-099-2556	Sequence 2556, Ap
398	25	55.6	151	11	US-11-111-664-37	Sequence 37, App1	471	25	55.6	370	11	US-11-045-004-1995	Sequence 1995, Ap
399	25	55.6	164	11	US-11-124-367A-453	Sequence 453, App	472	25	55.6	379	9	US-10-793-628-1172	Sequence 172, App
400	25	55.6	164	11	US-11-124-367A-454	Sequence 454, App	473	25	55.6	379	9	US-10-793-628-2084	Sequence 2084, Ap
401	25	55.6	172	11	US-11-096-568A-885	Sequence 3885, Ap	474	25	55.6	379	11	US-11-188-298-1806	Sequence 4806, Ap
402	25	55.6	180	7	US-09-995-493-176	Sequence 176, App	475	25	55.6	385	11	US-11-188-298-12332	Sequence 12332, A
403	25	55.6	180	9	US-10-194-487-220	Sequence 220, App	476	25	55.6	388	11	US-11-079-463-5286	Sequence 5286, Ap
404	25	55.6	180	9	US-10-195-883-220	Sequence 220, App	477	25	55.6	392	9	US-10-793-628-2794	Sequence 2794, Ap
405	25	55.6	180	9	US-10-195-888-220	Sequence 220, App	478	25	55.6	392	9	US-10-793-628-2874	Sequence 2874, Ap
406	25	55.6	180	9	US-10-195-889-220	Sequence 220, App	479	25	55.6	401	11	US-11-096-568A-2255	Sequence 2255, Ap
407	25	55.6	180	11	US-11-264-096-613	Sequence 613, App	480	25	55.6	403	11	US-11-192-450-4	Sequence 4, App11
408	25	55.6	183	11	US-11-096-568A-17061	Sequence 17061, A	481	25	55.6	404	10	US-11-301-554-1932	Sequence 1932, Ap
409	25	55.6	186	11	US-11-096-568A-3884	Sequence 3884, Ap	482	25	55.6	404	11	US-11-087-227-6	Sequence 6, App11
410	25	55.6	191	11	US-11-264-096-482	Sequence 482, App	483	25	55.6	404	11	US-11-192-450-3	Sequence 3, App11
411	25	55.6	192	11	US-11-096-568A-17129	Sequence 17129, A	484	25	55.6	414	11	US-11-188-298-1168	Sequence 1168, Ap
412	25	55.6	194	11	US-11-087-099-7152	Sequence 7152, Ap	485	25	55.6	415	11	US-11-188-298-8284	Sequence 8284, Ap
413	25	55.6	195	11	US-11-264-096-610	Sequence 610, App	486	25	55.6	416	11	US-11-096-568A-2254	Sequence 2254, Ap
414	25	55.6	202	11	US-11-072-512-2576	Sequence 2576, Ap	487	25	55.6	418	11	US-11-188-298-18998	Sequence 18998, A
415	25	55.6	203	11	US-11-182-016-42	Sequence 42, App1	488	25	55.6	424	11	US-11-079-463-6496	Sequence 6496, Ap
416	25	55.6	203	11	US-11-221-683-10	Sequence 10, App1	489	25	55.6	425	11	US-11-096-568A-9912	Sequence 9912, Ap
417	25	55.6	203	11	US-11-221-683-12	Sequence 12, App1	490	25	55.6	425	11	US-11-079-463-9645	Sequence 9645, Ap
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419	25	55.6	205	11	US-11-264-099-1475	Sequence 1475, Ap	492	25	55.6	429	11	US-11-050-857-637	Sequence 637, App
420	25	55.6	209	11	US-11-087-099-1475	Sequence 1475, Ap	493	25	55.6	429	11	US-11-051-720-1317	Sequence 1317, Ap
421	25	55.6	215	11	US-11-079-463-7096	Sequence 7096, Ap	494	25	55.6	434	11	US-11-050-857-635	Sequence 635, App
422	25	55.6	216	11	US-11-087-099-4134	Sequence 4134, Ap	495	25	55.6	434	11	US-11-051-720-1315	Sequence 1315, A
423	25	55.6	220	11	US-11-087-099-12182	Sequence 12182, A	496	25	55.6	434	11	US-11-096-568A-2478	Sequence 2478, A
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425	25	55.6	232	11	US-11-079-463-8501	Sequence 8501, Ap	498	25	55.6	437	9	US-10-821-234-1608	Sequence 1608, Ap
426	25	55.6	236	9	US-10-330-773-780	Sequence 780, App	499	25	55.6	437	11	US-11-096-568A-9911	Sequence 9911, Ap
427	25	55.6	244	9	US-10-523-362-8	Sequence 8, App11	500	25	55.6	439	11	US-11-096-568A-32725	Sequence 32725, A
428	25	55.6	244	11	US-11-087-099-5920	Sequence 5920, Ap	501	25	55.6	446	11	US-11-050-857-633	Sequence 633, App
429	25	55.6	246	11	US-11-087-099-6753	Sequence 6753, Ap	502	25	55.6	446	11	US-11-051-720-1430	Sequence 1430, Ap
430	25	55.6	246	11	US-11-096-568A-17060	Sequence 17060, A	503	25	55.6	451	11	US-11-096-568A-24277	Sequence 24277, A
431	25	55.6	247	11	US-11-096-568A-27676	Sequence 27676, A	504	25	55.6	453	11	US-11-096-568A-9910	Sequence 9910, Ap
432	25	55.6	249	11	US-11-087-099-6299	Sequence 6299, App	505	25	55.6	454	11	US-11-050-857-636	Sequence 636, App
433	25	55.6	253	7	US-09-995-493-78	Sequence 78, App1	506	25	55.6	454	11	US-11-051-720-1316	Sequence 1316, Ap
434	25	55.6	258	11	US-11-096-568A-17059	Sequence 17059, A	507	25	55.6	455	9	US-10-063-703-4	Sequence 4, App11
435	25	55.6	266	11	US-11-282-495-10	Sequence 10, App1	508	25	55.6	455	9	US-10-194-487-14	Sequence 14, App1
436	25	55.6	269	11	US-11-045-004-1050	Sequence 1050, Ap	509	25	55.6	455	9	US-10-195-883-14	Sequence 14, App1
437	25	55.6	272	9	US-10-467-657-9017	Sequence 9017, Ap	510	25	55.6	455	9	US-10-195-888-14	Sequence 14, App1
438	25	55.6	278	11	US-11-096-568A-20251	Sequence 20251, A	511	25	55.6	455	9	US-10-195-888-14	Sequence 14, App1
439	25	55.6	281	11	US-11-096-568A-27675	Sequence 27675, A	512	25	55.6	455	9	US-10-216-161A-430	Sequence 430, App
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442	25	55.6	286	11	US-11-096-568A-11112	Sequence 11112, A	515	25	55.6	455	11	US-11-103-195-4	Sequence 4, App11
443	25	55.6	287	11	US-11-096-568A-20250	Sequence 20250, A	516	25	55.6	458	8	US-10-370-959-62	Sequence 62, App1
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445	25	55.6	302	11	US-11-096-568A-25545	Sequence 25545, A	518	25	55.6	464	11	US-11-090-617-556	Sequence 556, App
446	25	55.6	306	11	US-11-096-568A-27674	Sequence 27674, A	519	25	55.6	464	11	US-11-098-686-11345	Sequence 11345, A
447	25	55.6	308	11	US-11-098-686-11286	Sequence 11286, A	520	25	55.6	464	11	US-11-072-512-3563	Sequence 3563, Ap
448	25	55.6	309	11	US-11-188-298-2883	Sequence 2883, Ap	521	25	55.6	464	11	US-11-050-857-634	Sequence 634, App
449	25	55.6	313	11	US-11-096-568A-25544	Sequence 25544, Ap	522	25	55.6	464	11	US-11-087-099-1003	Sequence 1003, App
450	25	55.6	315	11	US-11-072-512-2198	Sequence 2198, Ap	523	25	55.6	464	11	US-11-051-720-1314	Sequence 1314, Ap
451	25	55.6	317	11	US-11-188-298-6336	Sequence 6336, Ap	524	25	55.6	468	9	US-10-511-989-164	Sequence 164, App
452	25	55.6	317	11	US-11-188-298-6336	Sequence 6336, Ap	525	25	55.6	470	11	US-11-096-568A-24276	Sequence 24276, A
453	25	55.6	318	11	US-11-016-564-8	Sequence 8, App11	526	25	55.6	470	11	US-11-188-298-122045	Sequence 122045, A
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456	25	55.6	321	11	US-11-098-686-10226	Sequence 10226, A	529	25	55.6	475	11	US-11-096-568A-20378	Sequence 20378, A
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535	25	55.6	491	11	US-11-096-568A-20377	Sequence 20377, A	608	25	55.6	839	9	US-10-243-189-54	Sequence 54, Appl
536	25	55.6	491	11	US-11-188-298-8509	Sequence 8509, Ap	609	25	55.6	839	9	US-10-243-215-54	Sequence 54, Appl
537	25	55.6	491	11	US-11-188-298-21032	Sequence 21032, A	610	25	55.6	839	9	US-10-243-236-54	Sequence 54, Appl
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541	25	55.6	514	9	US-10-840-688-2	Sequence 2, Appl1	614	25	55.6	839	9	US-10-243-345-54	Sequence 54, Appl
542	25	55.6	514	9	US-10-840-688-3	Sequence 3, Appl1	615	25	55.6	839	9	US-10-243-357-54	Sequence 54, Appl
543	25	55.6	514	9	US-10-840-688-4	Sequence 4, Appl1	616	25	55.6	839	9	US-10-245-083-54	Sequence 54, Appl
544	25	55.6	514	9	US-10-840-688-5	Sequence 5, Appl1	617	25	55.6	839	9	US-10-247-015-54	Sequence 54, Appl
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546	25	55.6	514	9	US-10-840-688-7	Sequence 7, Appl1	619	25	55.6	845	11	US-11-164-096-483	Sequence 483, Appl
547	25	55.6	514	9	US-10-840-688-8	Sequence 8, Appl1	620	25	55.6	855	11	US-11-072-512-2367	Sequence 4, Appl
548	25	55.6	514	9	US-10-840-688-9	Sequence 9, Appl1	621	25	55.6	908	11	US-11-087-099-11020	Sequence 2387, Ap
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551	25	55.6	514	9	US-10-840-688-12	Sequence 12, Appl	624	25	55.6	943	9	US-10-475-204-34	Sequence 59, Appl
552	25	55.6	514	9	US-10-840-688-13	Sequence 13, Appl	625	25	55.6	989	9	US-10-793-626-2594	Sequence 2594, A
553	25	55.6	514	9	US-10-840-688-21	Sequence 21, Appl	626	25	55.6	992	11	US-10-793-626-2594	Sequence 10761, A
554	25	55.6	517	9	US-10-784-004-746	Sequence 746, App	627	25	55.6	1046	9	US-11-098-886-10761	Sequence 16, Appl
555	25	55.6	520	11	US-11-087-099-11701	Sequence 11701, A	628	25	55.6	1150	9	US-10-392-224A-16	Sequence 16, Appl
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558	25	55.6	530	11	US-11-188-298-11819	Sequence 11819, A	631	25	55.6	1216	11	US-11-096-568A-29556	Sequence 29556, A
559	25	55.6	543	11	US-11-188-298-1538	Sequence 1538, Ap	632	25	55.6	1266	11	US-11-096-568A-29556	Sequence 665, App
560	25	55.6	543	11	US-11-188-298-4208	Sequence 4208, Ap	633	25	55.6	1272	9	US-10-770-726-46	Sequence 41, App
561	25	55.6	543	11	US-11-188-298-19512	Sequence 19512, A	634	25	55.6	1272	9	US-10-501-035-313	Sequence 396, App
562	25	55.6	548	11	US-11-079-463-9463	Sequence 9463, Ap	635	25	55.6	1305	11	US-11-124-367A-396	Sequence 396, App
563	25	55.6	548	11	US-11-045-004-1058	Sequence 1058, Ap	636	25	55.6	1305	11	US-11-124-367A-394	Sequence 394, App
564	25	55.6	551	11	US-11-264-096-1202	Sequence 1202, Ap	637	25	55.6	1413	11	US-11-124-367A-395	Sequence 395, App
565	25	55.6	563	11	US-11-096-568A-16772	Sequence 16772, A	638	25	55.6	1452	11	US-11-124-367A-397	Sequence 397, App
566	25	55.6	566	9	US-10-511-538-89	Sequence 89, Appl	639	25	55.6	1560	9	US-10-204-639-63	Sequence 63, Appl
567	25	55.6	572	11	US-11-079-463-6597	Sequence 6597, Ap	640	25	55.6	1652	9	US-10-995-561-663	Sequence 663, App
568	25	55.6	579	11	US-11-079-463-7883	Sequence 7883, Ap	641	25	55.6	1652	9	US-10-995-561-663	Sequence 662, App
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570	25	55.6	598	11	US-11-198-640A-2	Sequence 2, Appl1	643	25	55.6	1938	9	US-10-995-561-662	Sequence 660, App
571	25	55.6	611	11	US-11-087-099-6674	Sequence 6674, Ap	644	25	55.6	1954	9	US-10-995-561-660	Sequence 17, Appl
572	25	55.6	615	11	US-11-079-463-5873	Sequence 5873, Ap	645	25	55.6	1960	11	US-11-069-834-48	Sequence 48, Appl
573	25	55.6	620	9	US-10-793-626-606	Sequence 606, App	646	25	55.6	1960	11	US-11-069-834-48	Sequence 48, Appl
574	25	55.6	636	9	US-10-467-657-1856	Sequence 1856, Ap	647	25	55.6	1960	11	US-11-069-834-50	Sequence 50, Appl
575	25	55.6	636	9	US-10-194-487-22	Sequence 22, Appl	648	25	55.6	1972	9	US-10-995-561-664	Sequence 664, App
576	25	55.6	636	9	US-10-195-883-22	Sequence 22, Appl	649	25	55.6	1972	9	US-10-995-561-664	Sequence 665, App
577	25	55.6	636	9	US-10-195-888-22	Sequence 22, Appl	650	25	55.6	1972	9	US-10-995-561-666	Sequence 666, App
578	25	55.6	636	9	US-10-195-889-22	Sequence 22, Appl	651	25	55.6	1976	11	US-11-069-834-52	Sequence 52, Appl
579	25	55.6	671	11	US-11-188-298-9026	Sequence 9026, Ap	652	25	55.6	1976	11	US-11-069-834-54	Sequence 54, Appl
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581	25	55.6	678	11	US-11-079-463-6059	Sequence 6059, Ap	654	25	55.6	1995	11	US-11-069-834-60	Sequence 60, Appl
582	25	55.6	678	11	US-11-072-512-3295	Sequence 3295, Ap	655	25	55.6	2000	11	US-11-069-834-56	Sequence 56, Appl
583	25	55.6	710	9	US-10-330-773-238	Sequence 238, App	656	25	55.6	2589	11	US-11-052-554A-141	Sequence 9, Appl
584	25	55.6	724	11	US-11-072-512-2324	Sequence 2324, Ap	657	25	55.6	3716	11	US-11-026-660-9	Sequence 14, App
585	25	55.6	738	11	US-11-188-298-2219	Sequence 2219, Ap	658	25	55.6	8	9	US-10-530-061-865	Sequence 865, Appl
586	25	55.6	739	11	US-11-072-512-3267	Sequence 3267, Ap	659	25	55.6	12	11	US-11-194-921-24	Sequence 24, Appl
587	25	55.6	740	11	US-11-188-298-15137	Sequence 15137, A	660	25	55.6	30	11	US-11-004-399-048	Sequence 2048, Ap
588	25	55.6	744	11	US-11-188-298-8609	Sequence 8609, Ap	661	25	55.6	45	9	US-11-057-887B-94	Sequence 94, Appl
589	25	55.6	744	11	US-11-188-298-19127	Sequence 19127, A	662	25	55.6	45	9	US-11-000-463-303	Sequence 303, App
590	25	55.6	746	9	US-10-828-831-5	Sequence 5, Appl1	663	25	55.6	55	11	US-11-096-568A-11954	Sequence 11954, A
591	25	55.6	746	9	US-10-828-831-7	Sequence 7, Appl1	664	25	55.6	57	11	US-11-096-568A-11954	Sequence 6, Appl1
592	25	55.6	747	9	US-10-131-826A-446	Sequence 426, App	665	25	55.6	58	11	US-11-119-098-6	Sequence 13944, A
593	25	55.6	747	9	US-10-973-115B-426	Sequence 426, App	666	25	55.6	62	11	US-11-096-568A-13844	Sequence 5590, Ap
594	25	55.6	747	9	US-10-216-161A-459	Sequence 459, App	667	25	55.6	63	11	US-11-079-463-5590	Sequence 2421, Ap
595	25	55.6	747	9	US-10-137-873A-426	Sequence 426, App	668	25	55.6	76	11	US-11-004-399-048	Sequence 11953, A
596	25	55.6	747	9	US-10-152-270-426	Sequence 426, App	669	25	55.6	95	11	US-11-096-568A-11953	Sequence 26, Appl
597	25	55.6	747	11	US-11-188-298-17849	Sequence 17849, A	670	25	55.6	103	9	US-10-857-780-26	Sequence 5919, Ap
598	25	55.6	747	11	US-11-290-153-426	Sequence 426, App	671	25	55.6	104	11	US-11-072-512-3720	Sequence 3720, Ap
599	25	55.6	749	11	US-11-188-298-10526	Sequence 10526, A	672	25	55.6	104	11	US-10-925-368A-290	Sequence 290, App
600	25	55.6	759	11	US-11-188-298-887	Sequence 887, App	673	25	55.6	108	9	US-11-217-919-96	Sequence 96, Appl
601	25	55.6	754	11	US-11-188-298-8892	Sequence 8892, Ap	674	25	55.6	108	11	US-11-098-758-290	Sequence 290, App
602	25	55.6	773	11	US-11-188-298-18509	Sequence 18509, A	675	25	55.6	114	11	US-11-087-099-6486	Sequence 6486, Ap
603	25	55.6	793	11	US-11-188-298-11205	Sequence 11205, A	676	25	55.6	115	11	US-11-188-298-7716	Sequence 7716, Ap
604	25	55.6	839	9	US-10-242-586-54	Sequence 54, Appl	677	25	55.6	118	11	US-11-045-004-2174	Sequence 2174, Ap
605	25	55.6	839	9	US-10-242-902-54	Sequence 54, Appl	678	25	55.6	118	11	US-11-045-004-2174	Sequence 2174, Ap

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680	24	53.3	127	11	US-11-264-096-1766	Sequence 1766, Ap	753	24	53.3	310	11	US-11-079-463-9664	Sequence 9664, Ap
681	24	53.3	129	9	US-10-997-437A-6	Sequence 6, Appl1	754	24	53.3	311	11	US-11-096-568A-4325	Sequence 4325, Ap
682	24	53.3	132	11	US-11-072-512-3315	Sequence 3315, Ap	755	24	53.3	312	9	US-10-793-626-1210	Sequence 1210, Ap
683	24	53.3	134	9	US-10-993-543-136	Sequence 136, App	756	24	53.3	313	11	US-11-096-568A-30856	Sequence 30856, A
684	24	53.3	144	9	US-10-485-517-112	Sequence 312, App	757	24	53.3	314	9	US-10-689-742-116	Sequence 116, App
685	24	53.3	144	11	US-11-188-298-2169	Sequence 2169, Ap	758	24	53.3	315	11	US-11-045-004-555	Sequence 555, App
686	24	53.3	144	11	US-11-188-298-12190	Sequence 12190, Ap	759	24	53.3	316	11	US-11-087-099-8205	Sequence 8205, App
687	24	53.3	145	11	US-11-096-568A-21131	Sequence 21131, A	760	24	53.3	318	11	US-11-179-977-16	Sequence 16, Appl
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691	24	53.3	147	11	US-11-188-298-15908	Sequence 15908, A	764	24	53.3	331	9	US-10-873-528-147	Sequence 147, App
692	24	53.3	148	11	US-11-188-298-15837	Sequence 15837, A	765	24	53.3	336	11	US-11-096-568A-6091	Sequence 6091, Ap
693	24	53.3	149	11	US-11-188-298-11457	Sequence 11457, A	766	24	53.3	338	9	US-10-921-793-54	Sequence 54, Appl
694	24	53.3	152	11	US-11-188-298-12150	Sequence 12150, A	767	24	53.3	338	9	US-10-931-198-54	Sequence 54, Appl
695	24	53.3	159	9	US-10-467-657-6388	Sequence 6388, Ap	768	24	53.3	338	9	US-10-942-042-54	Sequence 54, Appl
696	24	53.3	165	11	US-11-045-004-2124	Sequence 2124, Ap	769	24	53.3	333	11	US-11-096-568A-7482	Sequence 7482, Ap
697	24	53.3	172	9	US-10-793-626-1792	Sequence 1792, Ap	770	24	53.3	344	11	US-11-096-568A-7481	Sequence 7481, Ap
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996 24 53.3 583 9 US-10-793-626-1358 Sequence 1358, Ap
997 24 53.3 585 9 US-10-218-784-242 Sequence 242, App
998 24 53.3 585 9 US-10-219-061-242 Sequence 242, App
999 24 53.3 585 9 US-10-219-062-242 Sequence 242, App
1000 24 53.3 585 9 US-10-219-064-242 Sequence 242, App
```

ALIGNMENTS

```
RESULT 1
US-10-530-061-1718
; Sequence 1718, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.033US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1718
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-1718

Query Match          100.0%; Score 45; DB 9; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.0063;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy 1 FOOLFLNTL 9
    |||||
Db 4 FOOLFLNTL 12

RESULT 2
US-10-530-061-1719
; Sequence 1719, Application US/10530061
```

```
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.033US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1719
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-1719

Query Match          100.0%; Score 45; DB 9; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.0063;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
RESULT 3
US-10-530-253-27
; Sequence 27, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Cassetti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M37-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 27
; LENGTH: 105
; TYPE: PRT
; ORGANISM: Human papillomavirus type 18
US-10-530-253-27
```

```
Query Match          100.0%; Score 45; DB 9; Length 105;
Best Local Similarity 100.0%; Pred. No. 0.047;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy 1 FOOLFLNTL 9
    |||||
Db 86 FOOLFLNTL 94

RESULT 4
US-10-530-061-1729
; Sequence 1729, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
```



```
APPLICANT: SETTE, ALESSANDRO
TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
FILE REFERENCE: 2060.03US02/EKS/M-M
CURRENT APPLICATION NUMBER: US/10/530,061
CURRENT FILING DATE: 2005-04-04
PRIOR APPLICATION NUMBER: PCT/US03/31308
PRIOR FILING DATE: 2003-10-03
PRIOR APPLICATION NUMBER: 60/416,207
PRIOR FILING DATE: 2002-10-03
PRIOR APPLICATION NUMBER: 60/417,269
PRIOR FILING DATE: 2002-10-08
NUMBER OF SEQ ID NOS: 2503
SOFTWARE: PatentIn version 3.3
SEQ ID NO 1729
LENGTH: 15
TYPE: PRT
ORGANISM: Human papillomavirus
US-10-530-061-1729
```

```
Query Match      75.6%; Score 34; DB 9; Length 15;
Best Local Similarity 87.5%; Pred. No. 0.99;
Matches 7; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy      2 QOLPLNTL 9
        |||||
Db      5 QOLFLSTL 12
```

```
RESULT 5
US-10-530-061-1730
; Sequence 1730, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.03US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1730
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-1730
```

```
Query Match      75.6%; Score 34; DB 9; Length 15;
Best Local Similarity 87.5%; Pred. No. 0.99;
Matches 7; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy      2 QOLPLNTL 9
        |||||
Db      2 QOLFLSTL 9
```

```
RESULT 6
US-10-530-253-32
; Sequence 32, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Cassetti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
```

```
FILE REFERENCE: 00630/100M137-US2
CURRENT APPLICATION NUMBER: US/10/530,253
CURRENT FILING DATE: 2005-04-04
PRIOR APPLICATION NUMBER: PCT/US2003/031726
PRIOR FILING DATE: 2003-10-02
PRIOR APPLICATION NUMBER: US 60/415,929
PRIOR FILING DATE: 2002-10-03
NUMBER OF SEQ ID NOS: 65
SOFTWARE: PatentIn version 3.1
SEQ ID NO 32
LENGTH: 106
TYPE: PRT
ORGANISM: Human papillomavirus type 45
US-10-530-253-32
```

```
Query Match      75.6%; Score 34; DB 9; Length 106;
Best Local Similarity 87.5%; Pred. No. 7.4;
Matches 7; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy      2 QOLPLNTL 9
        |||||
Db      88 QOLFLSTL 95
```

```
RESULT 7
US-11-188-298-21315
; Sequence 21315, Application US/11188298
; Publication No. US20060075222A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
; FILE REFERENCE: 38-21(53452)B
; CURRENT APPLICATION NUMBER: US/11/188,298
; CURRENT FILING DATE: 2005-07-22
; PRIOR APPLICATION NUMBER: 60/592,978
; PRIOR FILING DATE: 2004-07-31
; NUMBER OF SEQ ID NOS: 22569
; SEQ ID NO 21315
; LENGTH: 368
; TYPE: PRT
; ORGANISM: Oceanobacillus thelyensis HTE831
US-11-188-298-21315
```

```
Query Match      73.3%; Score 33; DB 11; Length 368;
Best Local Similarity 85.7%; Pred. No. 42;
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy      1 FOOLFLN 7
        :|||
Db      258 YOOLFLN 264
```

```
RESULT 8
US-10-467-657-6396
; Sequence 6396, Application US/10467657
; Publication No. US20050260581A1
; GENERAL INFORMATION:
; APPLICANT: CHIRON SPA
; APPLICANT: FONTANA Maria Rita
; APPLICANT: PIZZA Mariagrazia
; APPLICANT: MANGIANI Vega
; APPLICANT: MONACI Elisabetta
; TITLE OF INVENTION: GONOCOCCAL PROTEINS AND NUCLEIC ACIDS
; FILE REFERENCE:
; CURRENT APPLICATION NUMBER: US/10/467,657
; CURRENT FILING DATE: 2003-08-11
; PRIOR APPLICATION NUMBER: GB-0103424.8
; PRIOR FILING DATE: 2001-02-12
; NUMBER OF SEQ ID NOS: 9218
; SOFTWARE: SeqMin99, version 1.04
; SEQ ID NO 6396
; LENGTH: 419
; TYPE: PRT
```

ORGANISM: Neisseria gonorrhoeae
US-10-467-657-6396

Query Match 73.3%; Score 33; DB 9; Length 419;
Best Local Similarity 75.0%; Pred. No. 48;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 QOLFLNTL 8
DB 371 FENLFLNT 378

RESULT 9
US-10-467-657-7614

Sequence 7614, Application US/10467657
Publication No. US20050260581A1
GENERAL INFORMATION:
APPLICANT: CHIRON SPA
APPLICANT: FONTANA Maria Rita
APPLICANT: PIZZA Mariagrazia
APPLICANT: MASIGNANI Vega
APPLICANT: MONACI Elisabetta
TITLE OF INVENTION: GONOCOCCAL PROTEINS AND NUCLEIC ACIDS
FILE REFERENCE:
CURRENT APPLICATION NUMBER: US/10/467,657
CURRENT FILING DATE: 2003-08-11
PRIOR APPLICATION NUMBER: GB-0103424.8
PRIOR FILING DATE: 2001-02-12
NUMBER OF SEQ ID NOS: 9218
SOFTWARE: SeqMan9, version 1.04
SEQ ID NO 7614
LENGTH: 419
TYPE: PRT
ORGANISM: Neisseria gonorrhoeae
US-10-467-657-7614

Query Match 73.3%; Score 33; DB 9; Length 419;
Best Local Similarity 75.0%; Pred. No. 48;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 FQOLPLNT 8
DB 371 FENLFLNT 378

RESULT 10
US-10-530-253-37
Sequence 37, Application US/10530253
Publication No. US20060014926A1
GENERAL INFORMATION:
APPLICANT: Casasetti, Maria C.
APPLICANT: Smith, Larry
APPLICANT: Jeffrey K. Pullen
APPLICANT: Susan P. McElhinney
TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
FILE REFERENCE: 00630/100M137-US2
CURRENT APPLICATION NUMBER: US/10/530,253
CURRENT FILING DATE: 2005-04-04
PRIOR APPLICATION NUMBER: PCT/US2003/031726
PRIOR FILING DATE: 2003-10-02
PRIOR APPLICATION NUMBER: US 60/415,929
PRIOR FILING DATE: 2002-10-03
NUMBER OF SEQ ID NOS: 65
SOFTWARE: PatentIn version 3.1
SEQ ID NO 37
LENGTH: 107
TYPE: PRT
ORGANISM: Human papillomavirus type 59
US-10-530-253-37

Query Match 71.1%; Score 32; DB 9; Length 107;
Best Local Similarity 75.0%; Pred. No. 19;
Matches 6; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 2 QOLFLNTL 9
DB 89 QOLFLNTL 96

RESULT 11

US-11-087-099-1547
Sequence 1547, Application US/11087099
Publication No. US20060041961A1
GENERAL INFORMATION:
APPLICANT: Abad, Mark S. et al.
TITLE OF INVENTION: Genes and Uses for Plant Improvement
FILE REFERENCE: 38-21(53450)B BP
CURRENT APPLICATION NUMBER: US/11/087,099
CURRENT FILING DATE: 2005-03-22
NUMBER OF SEQ ID NOS: 12464
SEQ ID NO 1547
LENGTH: 336
TYPE: PRT
ORGANISM: Nostoc sp. PCC 7120
US-11-087-099-1547

Query Match 71.1%; Score 32; DB 11; Length 336;
Best Local Similarity 75.0%; Pred. No. 61;
Matches 6; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 2 QOLFLNTL 9
DB 325 QOLFLNTL 332

RESULT 12

US-11-302-262-20
Sequence 20, Application US/11302262
Publication No. US20060090219A1
GENERAL INFORMATION:
APPLICANT: Ajinomoto Co., Inc.
TITLE OF INVENTION: A method of improving growth and yield of plants under reduced
TITLE OF INVENTION: nitrogen
FILE REFERENCE: OP05262
CURRENT APPLICATION NUMBER: US/11/302,262
CURRENT FILING DATE: 2005-12-14
PRIOR APPLICATION NUMBER: JP 2003-198559
PRIOR FILING DATE: 2003-07-17
NUMBER OF SEQ ID NOS: 20
SOFTWARE: PatentIn version 3.2
SEQ ID NO 20
LENGTH: 396
TYPE: PRT
ORGANISM: Escherichia coli
US-11-302-262-20

Query Match 71.1%; Score 32; DB 10; Length 396;
Best Local Similarity 75.0%; Pred. No. 72;
Matches 6; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 2 QOLFLNTL 9
DB 322 QOLFLNTL 329

RESULT 13

US-11-114-922-76
Sequence 76, Application US/11114922
Publication No. US20050282260A1
GENERAL INFORMATION:
APPLICANT: HICKS, PAULA M.
APPLICANT: MCPARLAN, SARA C.
TITLE OF INVENTION: POLYPEPTIDES AND BIOSYNTHETIC PATHWAYS FOR THE
PRODUCTION OF MONATIN AND ITS PRECURSORS
FILE REFERENCE: 023829-0396
CURRENT APPLICATION NUMBER: US/11/114,922

CURRENT FILING DATE: 2005-04-26
PRIOR APPLICATION NUMBER: 10/422,366
PRIOR FILING DATE: 2003-04-23
PRIOR APPLICATION NUMBER: 60/374,831
PRIOR FILING DATE: 2002-04-23
NUMBER OF SEQ ID NOS: 91
SOFTWARE: PatentIn Ver. 3.3
SEQ ID NO 76
LENGTH: 396
TYPE: PRT
ORGANISM: Escherichia coli
US-11-114-922-76

Query Match 71.1%; Score 32; DB 11; Length 396;
Best Local Similarity 75.0%; Pred. No. 72;
Matches 6; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 2 FQOLPLNTL 9
DB 322 RQLFVNTL 329

RESULT 14
US-11-045-004-32
Sequence 32, Application US/11045004
Publication No. US20060078901A1
GENERAL INFORMATION:
APPLICANT: BUCHRIEGER, CARMEN
APPLICANT: FRANGIOLU, LIONEL
APPLICANT: COUVE, ELISABETH
APPLICANT: RUSNIOK, CHRISTOPHE
APPLICANT: FSIHI, HAFIDA
APPLICANT: DEHOUX, PIERRE
APPLICANT: DUSSET, OLIVIER
APPLICANT: CHETOUANI, FARID
APPLICANT: NEDJARI, HAFED
APPLICANT: GLASER, PHILIPPE
APPLICANT: KUNST, FRANCK
APPLICANT: COSSART, PASCALE
APPLICANT: DANIELS, JUSTIN
APPLICANT: GOEBEL, WERNER
APPLICANT: KREFT, JURGEN
APPLICANT: KUHN, MICHAEL
APPLICANT: NG, EVA
APPLICANT: VAZQUEZ-BOLAND, ANTONIO
APPLICANT: DOMINGUEZ-BERNAL, GUSTAVO
APPLICANT: GARRIDO-GARCIA, PATRICIA
APPLICANT: TIERREZ-MARTINEZ, ALBERTO
APPLICANT: AMEND, ALEXANDRA
APPLICANT: CHAKRABORTY, TRINAD
APPLICANT: DOMANN, EUGEN
APPLICANT: HAIN, THORSTEN
APPLICANT: BERGHE, PATRICK
APPLICANT: CHARBIT, ALAIN
APPLICANT: DURANT, LIONEL
APPLICANT: PEREZ-DIAZ, JOSE-CLAUDIO
APPLICANT: BAQUERO, FERNANDO
APPLICANT: GARCIA DEL PORTILLO, FRANCISCO
APPLICANT: GOMEZ-LOPEZ, NURIA
APPLICANT: MADUENIO, ENCARNIA
APPLICANT: PABLOS, BETRIZ DE
APPLICANT: MEHLAND, JURGEN
APPLICANT: KARST, UWE
APPLICANT: ENTIAN, KARL-DIETER
APPLICANT: HAUF, JORG
APPLICANT: ROSE, MATTHIAS
APPLICANT: VOSS, HAMUT
TITLE OF INVENTION: LISTERIA MONOCYTOGENES GENOME, POLYPEPTIDES AND USES
FILE REFERENCE: 05394.0018-02
CURRENT APPLICATION NUMBER: US/11/045,004
PRIOR FILING DATE: 2005-01-28
PRIOR APPLICATION NUMBER: 10/637,657
PRIOR FILING DATE: 2003-08-11

PRIOR APPLICATION NUMBER: 10/257,023
PRIOR FILING DATE: 2002-10-08
PRIOR APPLICATION NUMBER: PCT/FR01/01118
PRIOR FILING DATE: 2001-04-11
PRIOR APPLICATION NUMBER: FR 00/04,629
PRIOR FILING DATE: 2000-04-11
NUMBER OF SEQ ID NOS: 2854
SOFTWARE: PatentIn version 3.3
SEQ ID NO 32
LENGTH: 572
TYPE: PRT
ORGANISM: Listeria monocytogenes
US-11-045-004-32

Query Match 71.1%; Score 32; DB 11; Length 572;
Best Local Similarity 55.6%; Pred. No. 1.1e+02;
Matches 5; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 1 FQOLPLNTL 9
DB 89 FQQTFINSI 97

RESULT 15
US-11-098-686-10324
Sequence 10324, Application US/11098686
Publication No. US20060024696A1
GENERAL INFORMATION:
APPLICANT: Kapur, Vivek and Gebhart, Connie J.
TITLE OF INVENTION: NUCLEIC ACID AND POLYPEPTIDE SEQUENCES
FILE REFERENCE: 09531-128001
CURRENT APPLICATION NUMBER: US/11/098,686
PRIOR FILING DATE: 2005-04-04
PRIOR APPLICATION NUMBER: PCT/US03/31318
PRIOR FILING DATE: 2003-10-01
PRIOR APPLICATION NUMBER: US 60/416,395
PRIOR FILING DATE: 2002-10-04
NUMBER OF SEQ ID NOS: 11433
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 10324
LENGTH: 278
TYPE: PRT
ORGANISM: Lawsonia intracellularis
US-11-098-686-10324

Query Match 68.9%; Score 31; DB 11; Length 278;
Best Local Similarity 66.7%; Pred. No. 79;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 FQOLPLNTL 9
DB 70 FQQFVNTL 78

RESULT 16
US-11-079-463-5515
Sequence 5515, Application US/11079463
Publication No. US20060073161A1
GENERAL INFORMATION:
APPLICANT: Gary L. Breton
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO BACTERIOIDES FRU
FILE REFERENCE: PATH00-03DIV2
CURRENT APPLICATION NUMBER: US/11/079,463
PRIOR FILING DATE: 2005-03-14
PRIOR APPLICATION NUMBER: US 60/128,705
PRIOR FILING DATE: 1999-04-09
PRIOR APPLICATION NUMBER: US 09/540,209
PRIOR FILING DATE: 2000-04-04
NUMBER OF SEQ ID NOS: 10444
SEQ ID NO 5515
LENGTH: 310

TYPE: PRT
ORGANISM: B.fragilis
US-11-079-463-5515

Query Match
Best Local Similarity 68.9%; Score 31; DB 11; Length 310;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 FOQLPLNTL 9
DB 265 FEAFPLNTL 273

RESULT 17
US-11-079-463-9689
Sequence 9689, Application US/11079463
Publication No. US20060073161A1
GENERAL INFORMATION:
APPLICANT: Gary L. Brelton
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO BACTERIOIDES FR
FILE REFERENCE: PAT00-03DIV2
CURRENT APPLICATION NUMBER: US/11/079,463
CURRENT FILING DATE: 2005-03-14
PRIOR APPLICATION NUMBER: US 60/128,705
PRIOR FILING DATE: 1999-04-09
PRIOR APPLICATION NUMBER: US 09/540,209
PRIOR FILING DATE: 2000-04-04
NUMBER OF SEQ ID NOS: 10444
SEQ ID NO 9689
LENGTH: 359
TYPE: PRT
ORGANISM: B.fragilis
US-11-079-463-9689

Query Match
Best Local Similarity 55.6%; Score 31; DB 11; Length 359;
Matches 5; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 1 FOQLPLNTL 9
DB 20 FRNIFLNTV 28

RESULT 18
US-11-192-801-2
Sequence 2, Application US/11192801
Publication No. US20050273882A1
GENERAL INFORMATION:
APPLICANT: Romano, Charles P.
TITLE OF INVENTION: Improved Expression of Cry3Bb Insecticidal Protein in Plants
FILE REFERENCE: 38-21(15304) Cry3Bb Improved Exp. Corn
CURRENT APPLICATION NUMBER: US/11/192,801
CURRENT FILING DATE: 2005-07-29
PRIOR APPLICATION NUMBER: US/10/232,665
PRIOR FILING DATE: 2002-08-29
PRIOR APPLICATION NUMBER: US/09/377,466
PRIOR FILING DATE: 1999-08-19
NUMBER OF SEQ ID NOS: 43
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 2
LENGTH: 652
TYPE: PRT
ORGANISM: Bacillus thuringiensis
US-11-192-801-2

Query Match
Best Local Similarity 68.9%; Score 31; DB 11; Length 652;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 FOQLPLNTL 9
DB 91 FYQSPLNTI 99

RESULT 19
US-11-192-801-6
Sequence 6, Application US/11192801
Publication No. US20050273882A1
GENERAL INFORMATION:
APPLICANT: Romano, Charles P.
TITLE OF INVENTION: Improved Expression of Cry3Bb Insecticidal Protein in Plants
FILE REFERENCE: 38-21(15304) Cry3Bb Improved Exp. Corn
CURRENT APPLICATION NUMBER: US/11/192,801
CURRENT FILING DATE: 2005-07-29
PRIOR APPLICATION NUMBER: US/10/232,665
PRIOR FILING DATE: 2002-08-29
PRIOR APPLICATION NUMBER: US/09/377,466
PRIOR FILING DATE: 1999-08-19
NUMBER OF SEQ ID NOS: 43
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 6
LENGTH: 652
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: synthetic or
OTHER INFORMATION: non-naturally occurring amino acid sequence encoded by SEQ ID NO:1
NAME/KEY: PRT
LOCATION: (1)..(652)
US-11-192-801-6

Query Match
Best Local Similarity 66.7%; Score 31; DB 11; Length 652;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 FOQLPLNTL 9
DB 91 FYQSPLNTI 99

RESULT 20
US-11-192-801-8
Sequence 8, Application US/11192801
Publication No. US20050273882A1
GENERAL INFORMATION:
APPLICANT: Romano, Charles P.
TITLE OF INVENTION: Improved Expression of Cry3Bb Insecticidal Protein in Plants
FILE REFERENCE: 38-21(15304) Cry3Bb Improved Exp. Corn
CURRENT APPLICATION NUMBER: US/11/192,801
CURRENT FILING DATE: 2005-07-29
PRIOR APPLICATION NUMBER: US/10/232,665
PRIOR FILING DATE: 2002-08-29
PRIOR APPLICATION NUMBER: US/09/377,466
PRIOR FILING DATE: 1999-08-19
NUMBER OF SEQ ID NOS: 43
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 8
LENGTH: 653
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: non-naturally
OTHER INFORMATION: occurring amino acid sequence encoded by SEQ ID NO:7
NAME/KEY: PRT
LOCATION: (1)..(653)
OTHER INFORMATION: amino acid sequence for Cry3Bb variant v11231 encoded by SEQ ID NO
US-11-192-801-8

Query Match
Best Local Similarity 68.9%; Score 31; DB 11; Length 653;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 FOQLPLNTL 9

Db 92 FYQSFPLNTI 100

RESULT 21
US-11-192-801-10

; Sequence 10, Application US/11192801
; Publication No. US20050273882A1
; GENERAL INFORMATION:

; APPLICANT: Romano, Charles P.

; TITLE OF INVENTION: Improved Expression of Cry3Bb Insecticidal Protein in Plants

; FILE REFERENCE: 38-21(15304) Cry3Bb Improved Exp. Corn

; CURRENT APPLICATION NUMBER: US/11/192,801

; CURRENT FILING DATE: 2005-07-29

; PRIOR APPLICATION NUMBER: US/10/232,665

; PRIOR FILING DATE: 2002-08-29

; PRIOR APPLICATION NUMBER: US/09/377,466

; PRIOR FILING DATE: 1999-08-19

; NUMBER OF SEQ ID NOS: 43

; SOFTWARE: PatentIn Ver. 2.0

; SEQ ID NO 10

; LENGTH: 653

; TYPE: PRT

; ORGANISM: Artificial Sequence

; FEATURE:

; OTHER INFORMATION: Description of Artificial Sequence: non-naturally

; OTHER INFORMATION: occurring amino acid sequence encoded by SEQ ID NO:9

; NAME/KEY: PRT

; LOCATION: (1)..(653)

; OTHER INFORMATION: amino acid sequence encoded by SEQ ID NO:9

US-11-192-801-10

Query Match 68.9%; Score 31; DB 11; Length 653;

Best Local Similarity 66.7%; Pred. No. 1.9e+02;

Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Qy 1 FOQLPLNTL 9

Db 92 FYQSFPLNTI 100

RESULT 22
US-11-192-801-12

; Sequence 12, Application US/11192801

; Publication No. US20050273882A1

; GENERAL INFORMATION:

; APPLICANT: Romano, Charles P.

; TITLE OF INVENTION: Improved Expression of Cry3Bb Insecticidal Protein in Plants

; FILE REFERENCE: 38-21(15304) Cry3Bb Improved Exp. Corn

; CURRENT APPLICATION NUMBER: US/11/192,801

; CURRENT FILING DATE: 2005-07-29

; PRIOR APPLICATION NUMBER: US/10/232,665

; PRIOR FILING DATE: 2002-08-29

; PRIOR APPLICATION NUMBER: US/09/377,466

; PRIOR FILING DATE: 1999-08-19

; NUMBER OF SEQ ID NOS: 43

; SOFTWARE: PatentIn Ver. 2.0

; SEQ ID NO 12

; LENGTH: 653

; TYPE: PRT

; ORGANISM: Artificial Sequence

; FEATURE:

; OTHER INFORMATION: Description of Artificial Sequence: non-naturally

; OTHER INFORMATION: occurring amino acid sequence encoded by SEQ ID NO:11

; NAME/KEY: PRT

; LOCATION: (1)..(1653)

; OTHER INFORMATION: amino acid sequence encoded by SEQ ID NO:11

US-11-192-801-12

Query Match 68.9%; Score 31; DB 11; Length 653;

Best Local Similarity 66.7%; Pred. No. 1.9e+02;

Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Qy 1 FOQLPLNTL 9

Db 92 FYQSFPLNTI 100

RESULT 23
US-11-192-801-14

; Sequence 14, Application US/11192801
; Publication No. US20050273882A1
; GENERAL INFORMATION:

; APPLICANT: Romano, Charles P.

; TITLE OF INVENTION: Improved Expression of Cry3Bb Insecticidal Protein in Plants

; FILE REFERENCE: 38-21(15304) Cry3Bb Improved Exp. Corn

; CURRENT APPLICATION NUMBER: US/11/192,801

; CURRENT FILING DATE: 2005-07-29

; PRIOR APPLICATION NUMBER: US/10/232,665

; PRIOR FILING DATE: 2002-08-29

; PRIOR APPLICATION NUMBER: US/09/377,466

; PRIOR FILING DATE: 1999-08-19

; NUMBER OF SEQ ID NOS: 43

; SOFTWARE: PatentIn Ver. 2.0

; SEQ ID NO 14

; LENGTH: 653

; TYPE: PRT

; ORGANISM: Artificial Sequence

; FEATURE:

; OTHER INFORMATION: Description of Artificial Sequence: peptide encoded by SEQ ID NO:

; NAME/KEY: PRT

; LOCATION: (1)..(653)

; OTHER INFORMATION: Cry3Bb1 variant v11231

US-11-192-801-14

Query Match 68.9%; Score 31; DB 11; Length 653;

Best Local Similarity 66.7%; Pred. No. 1.9e+02;

Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Qy 1 FOQLPLNTL 9

Db 92 FYQSFPLNTI 100

RESULT 24
US-11-192-801-16

; Sequence 16, Application US/11192801

; Publication No. US20050273882A1

; GENERAL INFORMATION:

; APPLICANT: Romano, Charles P.

; TITLE OF INVENTION: Improved Expression of Cry3Bb Insecticidal Protein in Plants

; FILE REFERENCE: 38-21(15304) Cry3Bb Improved Exp. Corn

; CURRENT APPLICATION NUMBER: US/11/192,801

; CURRENT FILING DATE: 2005-07-29

; PRIOR APPLICATION NUMBER: US/10/232,665

; PRIOR FILING DATE: 2002-08-29

; PRIOR APPLICATION NUMBER: US/09/377,466

; PRIOR FILING DATE: 1999-08-19

; NUMBER OF SEQ ID NOS: 43

; SOFTWARE: PatentIn Ver. 2.0

; SEQ ID NO 16

; LENGTH: 653

; TYPE: PRT

; ORGANISM: Artificial Sequence

; FEATURE:

; NAME/KEY: PRT

; LOCATION: (1)..(653)

; OTHER INFORMATION: Cry3Bb1 variant v11231

US-11-192-801-16

Query Match 68.9%; Score 31; DB 11; Length 653;

Best Local Similarity 66.7%; Pred. No. 1.9e+02;

Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Qy 1 FOOLFLNTL 9
| | | | |
Db 92 FYQSFLNTI 100

RESULT 25
US-11-192-801-18
; Sequence 18, Application US/11192801
; Publication No. US20050273882A1
; GENERAL INFORMATION:
; APPLICANT: Romano, Charles P.
; TITLE OF INVENTION: Improved Expression of Cry3Bb Insecticidal Protein in Plants
; FILE REFERENCE: 38-21(15304) Cry3Bb Improved Exp. Corn
; CURRENT APPLICATION NUMBER: US/11/192,801
; PRIOR FILING DATE: 2005-07-29
; PRIOR APPLICATION NUMBER: US/10/232,665
; PRIOR FILING DATE: 2002-08-29
; PRIOR APPLICATION NUMBER: US/09/377,466
; PRIOR FILING DATE: 1999-08-19
; NUMBER OF SEQ ID NOS: 43
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 18
; LENGTH: 653
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; NAME/KEY: PRT
; LOCATION: (1)..(653)
; OTHER INFORMATION: Cry3Bb1 variant 11231mv1
US-11-192-801-18

Query Match 68.9%; Score 31; DB 11; Length 653;
Best Local Similarity 66.7%; Pred. No. 1.9e+02;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Qy 1 FOOLFLNTL 9
| | | | |
Db 92 FYQSFLNTI 100

RESULT 26
US-11-192-801-20
; Sequence 20, Application US/11192801
; Publication No. US20050273882A1
; GENERAL INFORMATION:
; APPLICANT: Romano, Charles P.
; TITLE OF INVENTION: Improved Expression of Cry3Bb Insecticidal Protein in Plants
; FILE REFERENCE: 38-21(15304) Cry3Bb Improved Exp. Corn
; CURRENT APPLICATION NUMBER: US/11/192,801
; PRIOR FILING DATE: 2005-07-29
; PRIOR APPLICATION NUMBER: US/10/232,665
; PRIOR FILING DATE: 2002-08-29
; PRIOR APPLICATION NUMBER: US/09/377,466
; PRIOR FILING DATE: 1999-08-19
; NUMBER OF SEQ ID NOS: 43
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 20
; LENGTH: 653
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; NAME/KEY: PRT
; LOCATION: (1)..(653)
; OTHER INFORMATION: Cry3Bb1 variant 11231mv1
US-11-192-801-20

Query Match 68.9%; Score 31; DB 11; Length 653;
Best Local Similarity 66.7%; Pred. No. 1.9e+02;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Qy 1 FOOLFLNTL 9
| | | | |

Db 92 FYQSFLNTI 100

RESULT 27
US-11-192-801-22
; Sequence 22, Application US/11192801
; Publication No. US20050273882A1
; GENERAL INFORMATION:
; APPLICANT: Romano, Charles P.
; TITLE OF INVENTION: Improved Expression of Cry3Bb Insecticidal Protein in Plants
; FILE REFERENCE: 38-21(15304) Cry3Bb Improved Exp. Corn
; CURRENT APPLICATION NUMBER: US/11/192,801
; CURRENT FILING DATE: 2005-07-29
; PRIOR APPLICATION NUMBER: US/10/232,665
; PRIOR FILING DATE: 2002-08-29
; PRIOR APPLICATION NUMBER: US/09/377,466
; PRIOR FILING DATE: 1999-08-19
; NUMBER OF SEQ ID NOS: 43
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 22
; LENGTH: 653
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; NAME/KEY: PRT
; LOCATION: (1)..(653)
; OTHER INFORMATION: Cry3Bb1 variant 11231mv2
US-11-192-801-22

Query Match 68.9%; Score 31; DB 11; Length 653;
Best Local Similarity 66.7%; Pred. No. 1.9e+02;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Qy 1 FOOLFLNTL 9
| | | | |
Db 92 FYQSFLNTI 100

RESULT 28
US-11-192-801-24
; Sequence 24, Application US/11192801
; Publication No. US20050273882A1
; GENERAL INFORMATION:
; APPLICANT: Romano, Charles P.
; TITLE OF INVENTION: Improved Expression of Cry3Bb Insecticidal Protein in Plants
; FILE REFERENCE: 38-21(15304) Cry3Bb Improved Exp. Corn
; CURRENT APPLICATION NUMBER: US/11/192,801
; CURRENT FILING DATE: 2005-07-29
; PRIOR APPLICATION NUMBER: US/10/232,665
; PRIOR FILING DATE: 2002-08-29
; PRIOR APPLICATION NUMBER: US/09/377,466
; PRIOR FILING DATE: 1999-08-19
; NUMBER OF SEQ ID NOS: 43
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 24
; LENGTH: 653
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; NAME/KEY: PRT
; LOCATION: (1)..(653)
; OTHER INFORMATION: Cry3Bb1 variant 11231mv2
US-11-192-801-24

Query Match 68.9%; Score 31; DB 11; Length 653;
Best Local Similarity 66.7%; Pred. No. 1.9e+02;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Qy 1 FOOLFLNTL 9
| | | | |
Db 92 FYQSFLNTI 100

```
RESULT 29
US-11-192-801-37
; Sequence 37, Application US/11192801
; Publication No. US20050273882A1
; GENERAL INFORMATION:
; APPLICANT: Romano, Charles P.
; TITLE OF INVENTION: Improved Expression of Cry3Bb Insecticidal Protein in Plants
; FILE REFERENCE: 38-21(15304) Cry3Bb Improved Exp. Corn
; CURRENT APPLICATION NUMBER: US/11/192,801
; CURRENT FILING DATE: 2005-07-29
; PRIOR APPLICATION NUMBER: US/10/222,665
; PRIOR FILING DATE: 2002-08-29
; PRIOR APPLICATION NUMBER: US/09/377,466
; PRIOR FILING DATE: 1999-08-19
; NUMBER OF SEQ ID NOS: 43
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 37
; LENGTH: 653
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; NAME/KEY: PRT
; LOCATION: (1)..(653)
; OTHER INFORMATION: variant Cry3Bb1 coding sequence encoding v11231
US-11-192-801-37

Query Match
Best Local Similarity 68.9%; Score 31; DB 11; Length 653;
Best Local Similarity 66.7%; Pred. No. 1.9e+02;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 FOOLPLNTL 9
DB 92 FYQSFPLNTI 100

RESULT 30
US-11-192-801-39
; Sequence 39, Application US/11192801
; Publication No. US20050273882A1
; GENERAL INFORMATION:
; APPLICANT: Romano, Charles P.
; TITLE OF INVENTION: Improved Expression of Cry3Bb Insecticidal Protein in Plants
; FILE REFERENCE: 38-21(15304) Cry3Bb Improved Exp. Corn
; CURRENT APPLICATION NUMBER: US/11/192,801
; CURRENT FILING DATE: 2005-07-29
; PRIOR APPLICATION NUMBER: US/10/232,665
; PRIOR FILING DATE: 2002-08-29
; PRIOR APPLICATION NUMBER: US/09/377,466
; PRIOR FILING DATE: 1999-08-19
; NUMBER OF SEQ ID NOS: 43
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 39
; LENGTH: 653
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; NAME/KEY: PRT
; LOCATION: (1)..(653)
; OTHER INFORMATION: variant Cry3Bb1 coding sequence encoding v11231
US-11-192-801-39

Query Match
Best Local Similarity 68.9%; Score 31; DB 11; Length 653;
Best Local Similarity 66.7%; Pred. No. 1.9e+02;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 FOOLPLNTL 9
DB 92 FYQSFPLNTI 100

RESULT 31
US-10-472-808A-2
; Sequence 2, Application US/10472808A
```

```
; Publication No. US20060051850A1
; GENERAL INFORMATION:
; APPLICANT: APPLERA CORPORATION
; TITLE OF INVENTION: ISOLATED HUMAN TRANSPORTER PROTEINS,
; TITLE OF INVENTION: NUCLEIC ACID MOLECULES ENCODING HUMAN TRANSPORTER PROTEINS,
; TITLE OF INVENTION: AND USES THEREOF
; FILE REFERENCE: CL001097US
; CURRENT APPLICATION NUMBER: US/10/472,808A
; CURRENT FILING DATE: 2003-09-25
; NUMBER OF SEQ ID NOS: 5
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2
; LENGTH: 988
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-472-808A-2

Query Match
Best Local Similarity 68.9%; Score 31; DB 9; Length 988;
Best Local Similarity 62.5%; Pred. No. 2.9e+02;
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 FOOLPLNT 8
DB 471 FOOMVANT 478

RESULT 32
US-10-472-808A-4
; Sequence 4, Application US/10472808A
; Publication No. US20060051850A1
; GENERAL INFORMATION:
; APPLICANT: APPLERA CORPORATION
; TITLE OF INVENTION: ISOLATED HUMAN TRANSPORTER PROTEINS,
; TITLE OF INVENTION: NUCLEIC ACID MOLECULES ENCODING HUMAN TRANSPORTER PROTEINS,
; TITLE OF INVENTION: AND USES THEREOF
; FILE REFERENCE: CL001097US
; CURRENT APPLICATION NUMBER: US/10/472,808A
; CURRENT FILING DATE: 2003-09-25
; NUMBER OF SEQ ID NOS: 5
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 4
; LENGTH: 988
; TYPE: PRT
; ORGANISM: Rattus norvegicus
US-10-472-808A-4

Query Match
Best Local Similarity 68.9%; Score 31; DB 9; Length 988;
Best Local Similarity 62.5%; Pred. No. 2.9e+02;
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 FOOLPLNT 8
DB 471 FOOMVANT 478

RESULT 33
US-10-472-808A-5
; Sequence 5, Application US/10472808A
; Publication No. US20060051850A1
; GENERAL INFORMATION:
; APPLICANT: APPLERA CORPORATION
; TITLE OF INVENTION: ISOLATED HUMAN TRANSPORTER PROTEINS,
; TITLE OF INVENTION: NUCLEIC ACID MOLECULES ENCODING HUMAN TRANSPORTER PROTEINS,
; TITLE OF INVENTION: AND USES THEREOF
; FILE REFERENCE: CL001097US
; CURRENT APPLICATION NUMBER: US/10/472,808A
; CURRENT FILING DATE: 2003-09-25
; NUMBER OF SEQ ID NOS: 5
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 5
```

LENGTH: 988
TYPE: PRT
ORGANISM: Rattus norvegicus
US-10-472-808A-5

Query Match 68.9%; Score 31; DB 9; Length 988;
Best Local Similarity 62.5%; Pred. No. 2.9e+02;
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 FQFLPLNT 8
DB 471 FQFLPLNT 478

RESULT 34
US-10-511-455-31
Sequence 31, Application US/10511455
Publication No. US2006008835A1
GENERAL INFORMATION:
APPLICANT: Pickard, Benjamin Simon
APPLICANT: Blackwood, Douglas
APPLICANT: Porteous, David
APPLICANT: Muir, Walter John
APPLICANT: Moys, Ole
APPLICANT: Ewald, Henrik Lykke
TITLE OF INVENTION: SCHIZOPHRENIA ASSOCIATED GENES
FILE REFERENCE: 9013.63
CURRENT APPLICATION NUMBER: US/10/511,455
CURRENT FILING DATE: 2004-10-05
PRIOR APPLICATION NUMBER: PCT/GB03/001543
PRIOR FILING DATE: 2003-04-07
PRIOR APPLICATION NUMBER: GB0207902.8
PRIOR FILING DATE: 2002-04-05
PRIOR APPLICATION NUMBER: GB0207904.4
PRIOR FILING DATE: 2002-04-05
PRIOR APPLICATION NUMBER: GB0207900.2
PRIOR FILING DATE: 2002-04-05
PRIOR APPLICATION NUMBER: GB0207901.0
PRIOR FILING DATE: 2002-04-05
PRIOR APPLICATION NUMBER: GB0227734.1
PRIOR FILING DATE: 2002-11-28
NUMBER OF SEQ ID NOS: 94
SOFTWARE: Patent in version 3.1
SEQ ID NO 31
LENGTH: 331
TYPE: PRT
ORGANISM: Caenorhabditis elegans
US-10-511-455-31

Query Match 66.7%; Score 30; DB 8; Length 331;
Best Local Similarity 75.0%; Pred. No. 1.5e+02;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 FQFLPLNT 8
DB 107 FQFLPLNT 114

RESULT 35
US-11-087-099-6581
Sequence 6581, Application US/11087099
Publication No. US20060041961A1
GENERAL INFORMATION:
APPLICANT: Abad, Mark S. et al.
TITLE OF INVENTION: Genes and Uses for Plant Improvement
FILE REFERENCE: 38-21(53450)B EP
CURRENT APPLICATION NUMBER: US/11/087,099
CURRENT FILING DATE: 2005-03-22
NUMBER OF SEQ ID NOS: 12464
SEQ ID NO 6581
LENGTH: 356
TYPE: PRT
ORGANISM: Triticum aestivum

US-11-087-099-6581

Query Match 66.7%; Score 30; DB 11; Length 356;
Best Local Similarity 85.7%; Pred. No. 1.6e+02;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 3 QFLPLNTL 9
DB 127 QFLPLNTL 133

RESULT 36
US-11-051-724-34
Sequence 34, Application US/11051724
Publication No. US20060063200A1
GENERAL INFORMATION:
APPLICANT: Anderson, David W.
APPLICANT: Baumgartner, Jason C.
APPLICANT: Boldog, Ferenc L.
APPLICANT: Casman, Stacie J.
APPLICANT: Edinger, Shlomit R.
APPLICANT: Gangolli, Esba A.
APPLICANT: Gerlach, Valerie
APPLICANT: Gorman, Linda
APPLICANT: Guo, Xiaojia (Saabha)
APPLICANT: Hjalte, Torbj
APPLICANT: Kekuda, Ramesh
APPLICANT: Li, Li
APPLICANT: MacDougall, John R.
APPLICANT: Malyanakar, Uriel M.
APPLICANT: Millet, Isabelle
APPLICANT: Padigar, Muralidhara
APPLICANT: Paturajan, Meera
APPLICANT: Pena, Carol E. A.
APPLICANT: Rastelli, Luca
APPLICANT: Shinkets, Richard A.
APPLICANT: Stone, David J.
APPLICANT: Spytek, Kimberly A.
APPLICANT: Vernet, Corine A. M.
APPLICANT: Voss, Edward Z.
APPLICANT: Zernussen, Bryan D.
TITLE OF INVENTION: Therapeutic Polypeptides, Nucleic Acids Encoding Same,
FILE REFERENCE: 21402-377 B
CURRENT APPLICATION NUMBER: US/11/051,724
CURRENT FILING DATE: 2005-02-02
PRIOR APPLICATION NUMBER: US/10/162,335
PRIOR FILING DATE: 2002-10-01
PRIOR APPLICATION NUMBER: 60/295,607
PRIOR FILING DATE: 2001-06-04
PRIOR APPLICATION NUMBER: 60/295,661
PRIOR FILING DATE: 2001-06-04
PRIOR APPLICATION NUMBER: 60/296,404
PRIOR FILING DATE: 2001-06-06
PRIOR APPLICATION NUMBER: 60/296,418
PRIOR FILING DATE: 2001-06-06
PRIOR APPLICATION NUMBER: 60/297,414
PRIOR FILING DATE: 2001-06-11
PRIOR APPLICATION NUMBER: 60/297,567
PRIOR FILING DATE: 2001-06-12
PRIOR APPLICATION NUMBER: 60/298,285
PRIOR FILING DATE: 2001-06-14
PRIOR APPLICATION NUMBER: 60/298,556
PRIOR FILING DATE: 2001-06-15
PRIOR APPLICATION NUMBER: 60/299,949
PRIOR FILING DATE: 2001-06-21
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 201
SEQ ID NO 34
LENGTH: 400
TYPE: PRT
ORGANISM: Homo sapiens
US-11-051-724-34

Query Match 66.7%; Score 30; DB 11; Length 400;
Best Local Similarity 55.6%; Pred. No. 1.8e+02;
Matches 5; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

Qy 1 FOOLPLNTL 9
|:|:|:|:|
Db 160 PRTYLNLT 168

RESULT 37
US-10-858-730-219
; Sequence 219, Application US/10858730
; Publication No. US20050255568a1
; GENERAL INFORMATION:
; APPLICANT: Bailey, Richard B.
; APPLICANT: Blomquist, Paul
; APPLICANT: Doten, Reed
; APPLICANT: Driggers, Edward M.
; APPLICANT: Madden, Kevin T.
; APPLICANT: O'Leary, Jessica
; APPLICANT: O'Toole, George
; APPLICANT: Trueheart, Joshua
; APPLICANT: Walbridge, Michael J.
; APPLICANT: Yorgey, Peter S.
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR AMINO ACID
; FILE REFERENCE: 14184-030001
; CURRENT APPLICATION NUMBER: US/10/858,730
; CURRENT FILING DATE: 2004-06-01
; PRIOR APPLICATION NUMBER: US 60/475,000
; PRIOR FILING DATE: 2003-05-30
; PRIOR APPLICATION NUMBER: US 60/551,860
; PRIOR FILING DATE: 2004-03-10
; NUMBER OF SEQ ID NOS: 364
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 219
; LENGTH: 447
; TYPE: PRT
; ORGANISM: Corynebacterium glutamicum
US-10-858-730-219

Query Match 66.7%; Score 30; DB 9; Length 447;
Best Local Similarity 55.6%; Pred. No. 2e+02;
Matches 5; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

Qy 1 FOOLPLNTL 9
|:|:|:|:|
Db 111 PEOIFKNSL 119

RESULT 38
US-11-055-822-94
; Sequence 94, Application US/11055822
; Publication No. US20050260707a1
; GENERAL INFORMATION:
; APPLICANT: Pompeius, Markus
; APPLICANT: Kroger, Burkhard
; APPLICANT: Schroder, Hartwig
; APPLICANT: Zelder, Oskar
; APPLICANT: Habehauer, Gregor
; TITLE OF INVENTION: CORYNEBACTERIUM GLUTAMICUM GENES ENCODING
; TITLE OF INVENTION: METABOLIC PATHWAY PROTEINS
; FILE REFERENCE: BGI-121PCN
; CURRENT APPLICATION NUMBER: US/11/055,822
; CURRENT FILING DATE: 2005-02-11
; PRIOR APPLICATION NUMBER: 09/606,740
; PRIOR FILING DATE: 2000-06-23
; PRIOR APPLICATION NUMBER: 60/141,031
; PRIOR FILING DATE: 1999-06-25
; PRIOR APPLICATION NUMBER: 60/142,101
; PRIOR FILING DATE: 1999-07-02
; PRIOR APPLICATION NUMBER: 60/148,613

;; PRIOR FILING DATE: 1999-08-12
;; PRIOR APPLICATION NUMBER: 60/187,970
;; PRIOR FILING DATE: 2000-03-09
;; PRIOR APPLICATION NUMBER: DE 19930476.9
;; PRIOR FILING DATE: 1999-07-01
;; PRIOR APPLICATION NUMBER: DE 19931415.2
;; PRIOR FILING DATE: 1999-07-08
;; PRIOR APPLICATION NUMBER: DE 19931418.7
;; PRIOR FILING DATE: 1999-07-08
;; PRIOR APPLICATION NUMBER: DE 19931419.5
;; PRIOR FILING DATE: 1999-07-08
;; PRIOR APPLICATION NUMBER: DE 19931420.9
;; PRIOR FILING DATE: 1999-07-08
;; Remaining Prior Application data removed - See File Wrapper or PALM.
;; NUMBER OF SEQ ID NOS: 1158
;; SEQ ID NO 94
;; LENGTH: 447
;; TYPE: PRT
;; ORGANISM: Corynebacterium glutamicum
US-11-055-822-94

Query Match 66.7%; Score 30; DB 11; Length 447;
Best Local Similarity 55.6%; Pred. No. 2e+02;
Matches 5; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

Qy 1 FOOLPLNTL 9
|:|:|:|:|
Db 111 PEOIFKNSL 119

RESULT 39
US-11-045-004-2036
; Sequence 2036, Application US/11045004
; Publication No. US20060078901a1
; GENERAL INFORMATION:
; APPLICANT: BUCHRIEGER, CARMEN
; APPLICANT: FRANGEUL, LIONEL
; APPLICANT: COVE, ELISABETH
; APPLICANT: RUSNIOK, CHRISTOPHE
; APPLICANT: FSIHI, HAFIDA
; APPLICANT: DEHOUX, PIERRE
; APPLICANT: DUSURGET, OLIVIER
; APPLICANT: CHEROUANI, FARID
; APPLICANT: NEDJARI, HAFED
; APPLICANT: GLASER, PHILIPPE
; APPLICANT: KUNST, FRANCK
; APPLICANT: COSSART, PASCALE
; APPLICANT: DANIELS, JUSTIN
; APPLICANT: GOEBEL, WERNER
; APPLICANT: KREFT, JURGEN
; APPLICANT: KUHN, MICHAEL
; APPLICANT: NG, EVA
; APPLICANT: VAZQUEZ-BOLAND, ANTONIO
; APPLICANT: DOMINGUEZ-BERNAL, GUSTAVO
; APPLICANT: GARRIDO-GARCIA, PATRICIA
; APPLICANT: TIERREZ-MARTINEZ, ALBERTO
; APPLICANT: AMEND, ALEXANDRA
; APPLICANT: CHAKRABORTY, TRINAD
; APPLICANT: DOMANN, EUGEN
; APPLICANT: HAIN, THORSTEN
; APPLICANT: BERCHE, PATRICK
; APPLICANT: CHARBIT, ALAIN
; APPLICANT: DURANT, LIONEL
; APPLICANT: PEREZ-DIAZ, JOSE-CLAUDIO
; APPLICANT: BAQUERO, FERNANDO
; APPLICANT: GARCIA DEL PORTILLO, FRANCISCO
; APPLICANT: GOMEZ-LOPEZ, NURIA
; APPLICANT: MADUENIO, ENCARN
; APPLICANT: PABLOS, BETRIZ DE
; APPLICANT: WEHLAND, JURGEN
; APPLICANT: KARST, UWE
; APPLICANT: ENTIAN, KARL-DIETER
; APPLICANT: HAUF, JORG

APPLICANT: ROSE, MATTHIAS
APPLICANT: VOSSE, HANNO
TITLE OF INVENTION: LISTERIA MONOCYTOGENES GENOME, POLYPEPTIDES AND USES
FILE REFERENCE: 05394.0018-02
CURRENT APPLICATION NUMBER: US/11/045.004
CURRENT FILING DATE: 2005-01-28
PRIOR APPLICATION NUMBER: 10/637,657
PRIOR FILING DATE: 2003-08-11
PRIOR APPLICATION NUMBER: 10/257,023
PRIOR FILING DATE: 2002-10-08
PRIOR APPLICATION NUMBER: PCT/FR01/01118
PRIOR FILING DATE: 2001-04-11
PRIOR APPLICATION NUMBER: FR 00/04,629
PRIOR FILING DATE: 2000-04-11
NUMBER OF SEQ ID NOS: 2854
SOFTWARE: PatentIn version 3.3
SEQ ID NO 2036
LENGTH: 458
TYPE: PRT
ORGANISM: *Listeria monocytogenes*
US-11-045-004-2036

Query Match 66.7%; Score 30; DB 11; Length 458;
Best Local Similarity 55.6%; Pred. No. 2.1e+02;
Matches 5; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 1 FOOTPLNTL 9
DB 122 FEQIFKNSL 130

RESULT 40
US-10-858-730-63
Sequence 63, Application US/10858730
Publication No. US20050255568A1
GENERAL INFORMATION:
APPLICANT: Bailey, Richard B.
APPLICANT: Blomquist, Paul
APPLICANT: Doten, Reed
APPLICANT: Driggers, Edward M.
APPLICANT: Madden, Kevin T.
APPLICANT: O'Leary, Jessica
APPLICANT: O'Toole, George
APPLICANT: Trueheart, Joshua
APPLICANT: Walbridge, Michael J.
APPLICANT: Yorgey, Peter S.
TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR AMINO ACID
FILE REFERENCE: 14184-030001
CURRENT APPLICATION NUMBER: US/10/858,730
CURRENT FILING DATE: 2004-06-01
PRIOR APPLICATION NUMBER: US 60/475,000
PRIOR FILING DATE: 2003-05-30
PRIOR APPLICATION NUMBER: US 60/551,860
PRIOR FILING DATE: 2004-03-10
NUMBER OF SEQ ID NOS: 364
SOFTWARE: PatSeq for Windows Version 4.0
SEQ ID NO 63
LENGTH: 460
TYPE: PRT
ORGANISM: *Thermobifida fusca*
US-10-858-730-63

Query Match 66.7%; Score 30; DB 9; Length 460;
Best Local Similarity 55.6%; Pred. No. 2.1e+02;
Matches 5; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 1 FOOTPLNTL 9
DB 121 FEQIFKNSL 129

RESULT 41

US-11-051-724-32
Sequence 32, Application US/11051724
Publication No. US20060063200A1
GENERAL INFORMATION:
APPLICANT: Anderson, David W.
APPLICANT: Baumgartner, Jason C.
APPLICANT: Boldo, Ferenc L.
APPLICANT: Casman, Stacie J.
APPLICANT: Edinger, Shalom R.
APPLICANT: Gangoli, Esna A.
APPLICANT: Gerlach, Valerie
APPLICANT: Gorman, Linda
APPLICANT: Guo, Xiaojia (Sasha)
APPLICANT: Hjalte, Tord
APPLICANT: Kekuda, Ramesh
APPLICANT: Li, Li
APPLICANT: MacDougall, John R.
APPLICANT: Malvankar, Uriel M.
APPLICANT: Miller, Isabelle
APPLICANT: Padigaru, Muralidhara
APPLICANT: Patnajan, Meera
APPLICANT: Pena, Carol E. A.
APPLICANT: Rastelli, Luca
APPLICANT: Shimkets, Richard A.
APPLICANT: Stone, David J.
APPLICANT: Spytek, Kimberly A.
APPLICANT: Verne, Corine A. M.
APPLICANT: Voss, Edward Z.
APPLICANT: Zerhusen, Bryan D.
TITLE OF INVENTION: Therapeutic Polypeptides, Nucleic Acids Encoding Same,
FILE REFERENCE: 21402-377 B
CURRENT APPLICATION NUMBER: US/11/051,724
CURRENT FILING DATE: 2005-02-02
PRIOR APPLICATION NUMBER: US/10/162,335
PRIOR FILING DATE: 2002-10-01
PRIOR APPLICATION NUMBER: 60/295,607
PRIOR FILING DATE: 2001-06-04
PRIOR APPLICATION NUMBER: 60/295,661
PRIOR FILING DATE: 2001-06-04
PRIOR APPLICATION NUMBER: 60/296,404
PRIOR FILING DATE: 2001-06-06
PRIOR APPLICATION NUMBER: 60/296,418
PRIOR FILING DATE: 2001-06-06
PRIOR APPLICATION NUMBER: 60/297,414
PRIOR FILING DATE: 2001-06-11
PRIOR APPLICATION NUMBER: 60/297,567
PRIOR FILING DATE: 2001-06-12
PRIOR APPLICATION NUMBER: 60/298,285
PRIOR FILING DATE: 2001-06-14
PRIOR APPLICATION NUMBER: 60/298,556
PRIOR FILING DATE: 2001-06-15
PRIOR APPLICATION NUMBER: 60/299,949
PRIOR FILING DATE: 2001-06-21
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 201
SEQ ID NO 32
LENGTH: 490
TYPE: PRT
ORGANISM: *Homo sapiens*
US-11-051-724-32

Query Match 66.7%; Score 30; DB 11; Length 490;
Best Local Similarity 55.6%; Pred. No. 2.2e+02;
Matches 5; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 1 FOOTPLNTL 9
DB 249 FRTIVLNTL 257

RESULT 42
US-11-188-298-4397

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; Sequence 4397, Application US/11188298
; Publication No. US20060075522A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
; FILE REFERENCE: 38-21(53452)B
; CURRENT APPLICATION NUMBER: US/11/188,298
; CURRENT FILING DATE: 2005-07-22
; PRIOR APPLICATION NUMBER: 60/592,978
; PRIOR FILING DATE: 2004-07-31
; NUMBER OF SEQ ID NOS: 22569
; SEQ ID NO 4397
; LENGTH: 509
; TYPE: PRT
; ORGANISM: Oryza sativa (japonica cultivar-group)
US-11-188-298-4397

Query Match      66.7%; Score 30; DB 11; Length 509;
Best Local Similarity 71.4%; Pred. No. 2.3e+02;
Matches 5; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY      3 QLEPLNTL 9
Db      173 QMPLNTM 179

RESULT 43
US-10-821-234-1211
; Sequence 1211, Application US/10821234
; Publication No. US20050255114A1
; GENERAL INFORMATION:
; APPLICANT: Labat, Ivan
; APPLICANT: Stache-Crahn, Birgit
; APPLICANT: Andarmani, Susan
; APPLICANT: Tang, Y. Tom
; TITLE OF INVENTION: Methods for Diagnosis and Treatment of Preeclampsia
; FILE REFERENCE: 821A
; CURRENT APPLICATION NUMBER: US/10/821,234
; CURRENT FILING DATE: 2004-04-07
; PRIOR APPLICATION NUMBER: US 60/462,047
; PRIOR FILING DATE: 2003-04-07
; NUMBER OF SEQ ID NOS: 1704
; SOFTWARE: pc SEQ_genes Version 1.0
; SEQ ID NO 1211
; LENGTH: 515
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-821-234-1211

Query Match      66.7%; Score 30; DB 9; Length 515;
Best Local Similarity 55.6%; Pred. No. 2.4e+02;
Matches 5; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY      1 FOOLPLNTL 9
Db      275 FRTIYIANTL 283

RESULT 44
US-10-793-626-260
; Sequence 260, Application US/10793626
; Publication No. US20050255478A1
; GENERAL INFORMATION:
; APPLICANT: KIMMERLY, WILLIAM JOHN
; TITLE OF INVENTION: STAPHYLOCOCCUS EPIDERMIDIS NUCLEIC ACIDS AND PROTEINS
; FILE REFERENCE: PU3480US
; CURRENT APPLICATION NUMBER: US/10/793,626
; CURRENT FILING DATE: 2004-03-04
; PRIOR APPLICATION NUMBER: 60/164,258
; PRIOR FILING DATE: 1999-11-09
; NUMBER OF SEQ ID NOS: 4472
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 260
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; LENGTH: 538
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: synthetic
; OTHER INFORMATION: amino acid sequence
US-10-793-626-260

Query Match      66.7%; Score 30; DB 9; Length 538;
Best Local Similarity 75.0%; Pred. No. 2.5e+02;
Matches 6; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      1 FOOLPLNT 8
Db      176 FSOEPLNT 183

RESULT 45
US-11-188-298-9051
; Sequence 9051, Application US/11188298
; Publication No. US20060075522A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
; FILE REFERENCE: 38-21(53452)B
; CURRENT APPLICATION NUMBER: US/11/188,298
; CURRENT FILING DATE: 2005-07-22
; PRIOR APPLICATION NUMBER: 60/592,978
; PRIOR FILING DATE: 2004-07-31
; NUMBER OF SEQ ID NOS: 22569
; SEQ ID NO 9051
; LENGTH: 666
; TYPE: PRT
; ORGANISM: Oryza sativa
US-11-188-298-9051

Query Match      66.7%; Score 30; DB 11; Length 666;
Best Local Similarity 71.4%; Pred. No. 3.1e+02;
Matches 5; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY      3 QLEPLNTL 9
Db      170 QMPLNTM 176

RESULT 46
US-11-205-109-15
; Sequence 15, Application US/11205109
; Publication No. US20050287641A1
; GENERAL INFORMATION:
; APPLICANT: Farnet, Chris
; APPLICANT: Zazopoulos, Emmanuel
; APPLICANT: Staffa, Alfredo
; TITLE OF INVENTION: GENE CLUSTER FOR RAMOPLANIN BIOSYNTHESIS
; FILE REFERENCE: 3002-2US
; CURRENT APPLICATION NUMBER: US/11/205,109
; CURRENT FILING DATE: 2005-08-17
; PRIOR APPLICATION NUMBER: US/09/976,059
; PRIOR FILING DATE: 2001-10-15
; PRIOR APPLICATION NUMBER: US 60/239,924
; PRIOR FILING DATE: 2000-10-13
; NUMBER OF SEQ ID NOS: 46
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 15
; LENGTH: 8695
; TYPE: PRT
; ORGANISM: Actinoplanes sp.
US-11-205-109-15

Query Match      66.7%; Score 30; DB 11; Length 8695;
Best Local Similarity 75.0%; Pred. No. 4.3e+03;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
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QY 2 QOLFLNTL 9
|:|:|:
Db 3490 QOLFLNTL 3497

RESULT 47
US-10-530-061-864
; Sequence 864, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.033US02/EKS/W-M
; CURRENT APPLICATION NUMBER: US/10/530.061
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: Patentin version 3.3
; SEQ ID NO 864
; LENGTH: 8
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-864

Query Match 64.4%; Score 29; DB 9; Length 8;
Best Local Similarity 100.0%; Pred. No. 1.9e+05;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 4 LFLNTL 9
|:|:|:
Db 1 LFLNTL 6

RESULT 48
US-11-123-241-112
; Sequence 112, Application US/11123241
; Publication No. US20060078565A1
; GENERAL INFORMATION:
; APPLICANT: Microbial Technics Limited
; APPLICANT: Le Page, Richard WP
; APPLICANT: Wells, Jeremy M
; APPLICANT: Hamillfy, Sean B
; TITLE OF INVENTION: Proteins
; FILE REFERENCE: PMC/P21089wo
; CURRENT APPLICATION NUMBER: US/11/123,241
; CURRENT FILING DATE: 2005-05-06
; PRIOR APPLICATION NUMBER: US/09/769,736
; PRIOR FILING DATE: 2003-02-14
; PRIOR APPLICATION NUMBER: GB 9816335.5
; PRIOR FILING DATE: 1998-07-27
; PRIOR APPLICATION NUMBER: US 60/125163
; PRIOR FILING DATE: 1999-03-19
; NUMBER OF SEQ ID NOS: 212
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 112
; LENGTH: 56
; TYPE: PRT
; ORGANISM: Streptococcus agalactiae
US-11-123-241-112

Query Match 64.4%; Score 29; DB 11; Length 56;
Best Local Similarity 50.0%; Pred. No. 38;
Matches 4; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY 1 FOOLFLNTL 8
|:|:|:|:|:
|:|:|:|:|:

Db 26 FREVFMNT 33

RESULT 49
US-11-096-568A-16374
; Sequence 16374, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
; APPLICANT: Alexandrov, Nikolai et al.
; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
; FILE REFERENCE: 2750-1592PUS2
; CURRENT APPLICATION NUMBER: US/11/096,568A
; CURRENT FILING DATE: 2005-04-01
; NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 16374
; LENGTH: 225
; TYPE: PRT
; ORGANISM: Zea mays subsp. mays
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1)..(225)
; OTHER INFORMATION: Ceres Seq. ID no. 12352117
US-11-096-568A-16374

Query Match 64.4%; Score 29; DB 11; Length 225;
Best Local Similarity 71.4%; Pred. No. 1.6e+02;
Matches 5; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 2 QOLFLNT 8
|:|:|:
Db 21 QOLFLNT 27

RESULT 50
US-10-793-626-2980
; Sequence 2980, Application US/10793626
; Publication No. US20050255478A1
; GENERAL INFORMATION:
; APPLICANT: KIMBERLY, WILLIAM JOHN
; TITLE OF INVENTION: STAPHYLOCOCCUS EPIDERMIDIS NUCLEIC ACIDS AND PROTEINS
; FILE REFERENCE: PU3480US
; CURRENT APPLICATION NUMBER: US/10/793,626
; CURRENT FILING DATE: 2004-03-04
; PRIOR APPLICATION NUMBER: 60/164,258
; PRIOR FILING DATE: 1999-11-09
; NUMBER OF SEQ ID NOS: 4472
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 2980
; LENGTH: 302
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: synthetic
US-10-793-626-2980

Query Match 64.4%; Score 29; DB 9; Length 302;
Best Local Similarity 55.6%; Pred. No. 2.2e+02;
Matches 5; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 1 FOOLFLNTL 9
|:|:|:|:
Db 290 YEDFLFLAL 298

Search completed: May 5, 2006, 08:07:54
Job time : 9.5 secs

GenCore version 5.1.7
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OM protein - protein search, using sw model

Run on: May 5, 2006, 01:33:35 ; Search time 18.2 Seconds
(Without alignments)
40.884 Million cell updates/sec

Title: US-08-170-344-32
Perfect score: 44
Sequence: 1 QLFPLNTLSP 9

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 572060 seqs, 82675679 residues
Total number of hits satisfying chosen parameters: 572060

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 1000 summaries

Database :
1: /cgn2_6/ptodata/1/iaa/5.COMB.pep:*
2: /cgn2_6/ptodata/1/iaa/6.COMB.pep:*
3: /cgn2_6/ptodata/1/iaa/H.COMB.pep:*
4: /cgn2_6/ptodata/1/iaa/PCITUS.COMB.pep:*
5: /cgn2_6/ptodata/1/iaa/R.COMB.pep:*
6: /cgn2_6/ptodata/1/iaa/backfile1.pep:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	length	ID	Description
1	44	100.0	29	1	US-08-934-915-66 Sequence 66, Appl
2	44	100.0	227	2	US-09-485-885-16 Sequence 16, Appl
3	44	100.0	227	2	US-09-485-885-19 Sequence 19, Appl
4	44	100.0	272	1	US-08-117-083-13 Sequence 13, Appl
5	44	100.0	383	1	US-09-485-885-23 Sequence 23, Appl
6	34	77.3	30	1	US-08-934-915-60 Sequence 20, Appl
7	34	77.3	281	2	US-09-540-226-280 Sequence 2380, Ap
8	34	77.3	333	2	US-09-270-767-46066 Sequence 46066, A
9	33	75.0	289	2	US-10-151-832-6 Sequence 6, Appl
10	33	75.0	449	2	US-09-603-208A-42 Sequence 42, Appl
11	32	72.7	123	2	US-09-107-532A-3923 Sequence 3923, Ap
12	32	72.7	292	2	US-09-919-497-71 Sequence 71, Appl
13	32	72.7	292	2	US-09-949-016-6771 Sequence 7112, Ap
14	32	72.7	324	2	US-09-949-016-7132 Sequence 6500, Ap
15	32	72.7	378	2	US-09-107-532A-6500 Sequence 8, Appl
16	32	72.7	633	2	US-09-041-991A-8 Sequence 10, Appl
17	32	72.7	633	2	US-09-041-991A-10 Sequence 8, Appl
18	32	72.7	633	2	US-09-608-533A-8 Sequence 10, Appl
19	32	72.7	633	2	US-09-608-533A-10 Sequence 22497, A
20	31	70.5	66	2	US-09-248-796A-22497 Sequence 45094, A
21	31	70.5	127	2	US-09-270-767-45094 Sequence 16422, A
22	31	70.5	263	2	US-09-902-540-16422 Sequence 2980, Ap
23	31	70.5	302	2	US-09-710-279-2980 Sequence 3383, Ap
24	31	70.5	350	2	US-09-134-001C-3383 Sequence 24, Appl
25	31	70.5	396	2	US-08-985-908-24 Sequence 6, Appl
26	31	70.5	581	2	US-08-619-812-6 Sequence 22396, A
27	31	70.5	660	2	US-09-252-991A-22396

28	31	70.5	672	2	US-09-543-681A-5976 Sequence 5976, Ap
29	31	70.5	823	2	US-09-491-356C-23 Sequence 23, Appl
30	31	70.5	848	2	US-09-491-356C-22 Sequence 22, Appl
31	31	70.5	933	2	US-09-949-016-8386 Sequence 8386, Ap
32	31	70.5	947	1	US-08-887-518-2 Sequence 2, Appl
33	31	70.5	947	1	US-09-023-321-2 Sequence 2, Appl
34	31	70.5	947	1	US-09-032-475-2 Sequence 1, Appl
35	31	70.5	947	1	US-09-257-703-1 Sequence 1, Appl
36	31	70.5	947	2	US-09-871-889A-1 Sequence 18, Appl
37	31	70.5	947	2	US-09-949-016-8387 Sequence 8387, Ap
38	31	70.5	953	2	US-09-328-352-7578 Sequence 42027, A
39	30	68.2	95	2	US-09-328-352-7578 Sequence 42027, A
40	30	68.2	153	2	US-09-270-767-42027 Sequence 24400, A
41	30	68.2	177	2	US-09-248-796A-24400 Sequence 5511, Ap
42	30	68.2	183	2	US-09-107-532A-5511 Sequence 4936, Ap
43	30	68.2	191	2	US-09-543-681A-4936 Sequence 2796, Ap
44	30	68.2	224	2	US-09-543-681A-4894 Sequence 4746, Ap
45	30	68.2	281	2	US-09-540-236-2746 Sequence 6473, Ap
46	30	68.2	283	2	US-09-328-352-6473 Sequence 35867, A
47	30	68.2	306	2	US-09-270-767-35867 Sequence 51084, A
48	30	68.2	306	2	US-09-270-767-51084 Sequence 2, Appl
49	30	68.2	424	2	US-09-949-016-7901 Sequence 7901, Ap
50	30	68.2	451	2	US-09-544-272-14 Sequence 44482, A
51	30	68.2	469	2	US-09-270-767-44482 Sequence 14, Appl
52	30	68.2	470	2	US-08-879-565-14 Sequence 4, Appl
53	30	68.2	476	2	US-09-171-969-4 Sequence 4, Appl
54	30	68.2	476	2	US-08-945-289-4 Sequence 4, Appl
55	30	68.2	476	2	US-09-845-511-4 Sequence 1, Appl
56	30	68.2	493	2	US-09-054-272-14 Sequence 48, Appl
57	30	68.2	493	2	US-09-054-272-48 Sequence 2, Appl
58	30	68.2	496	2	US-09-171-969-2 Sequence 6, Appl
59	30	68.2	496	2	US-08-945-289-6 Sequence 2, Appl
60	30	68.2	496	2	US-09-845-511-2 Sequence 9, Appl
61	30	68.2	550	2	US-09-039-859-9 Sequence 6, Appl
62	30	68.2	558	2	US-09-949-016-6699 Sequence 9905, Ap
63	30	68.2	608	2	US-09-949-016-9905 Sequence 10338, A
64	30	68.2	617	2	US-09-949-016-10338 Sequence 6776, Ap
65	30	68.2	626	2	US-09-949-016-6776 Sequence 332, Ap
66	30	68.2	663	2	US-09-711-164-332 Sequence 13088, A
67	30	68.2	677	2	US-09-489-039A-13088 Sequence 9660, Ap
68	30	68.2	697	2	US-09-949-016-9660 Sequence 375, App
69	30	68.2	816	2	US-09-999-833A-375 Sequence 6888, Ap
70	30	68.2	816	2	US-10-020-445A-375 Sequence 21, Appl
71	30	68.2	822	2	US-09-949-016-6888 Sequence 20, Appl
72	30	68.2	836	2	US-09-491-356C-21 Sequence 2, Appl
73	30	68.2	843	2	US-09-491-356C-20 Sequence 2, Appl
74	30	68.2	1456	1	US-08-803-972-2 Sequence 28, Appl
75	30	68.2	1456	1	US-08-803-972-2 Sequence 28, Appl
76	30	68.2	2618	2	US-09-413-814-28 Sequence 20, Appl
77	29	65.9	70	2	US-08-989-510A-19 Sequence 20, Appl
78	29	65.9	70	2	US-09-182-816-20 Sequence 20, Appl
79	29	65.9	70	2	US-09-471-288-20 Sequence 20, Appl
80	29	65.9	70	2	US-09-634-530-20 Sequence 20, Appl
81	29	65.9	74	2	US-09-248-796A-22784 Sequence 24195, A
82	29	65.9	79	2	US-09-248-796A-22784 Sequence 27287, A
83	29	65.9	107	2	US-09-248-796A-22787 Sequence 36638, A
84	29	65.9	111	2	US-09-270-767-39638 Sequence 34855, A
85	29	65.9	111	2	US-09-270-767-34855 Sequence 2133, Ap
86	29	65.9	120	2	US-10-104-047-2133 Sequence 20050, A
87	29	65.9	174	2	US-09-645-593-7 Sequence 3702, Ap
88	29	65.9	192	2	US-09-107-532A-3702 Sequence 3779, Ap
89	29	65.9	217	2	US-08-107-532A-3779 Sequence 3, Appl
90	29	65.9	219	2	US-08-465-980-3 Sequence 3, Appl
91	29	65.9	247	1	US-09-053-303-3 Sequence 3, Appl
92	29	65.9	247	1	US-09-339-115-3 Sequence 3, Appl
93	29	65.9	247	4	PCT-US95-07093-3 Sequence 26414, A
94	29	65.9	250	1	US-09-248-796A-26414 Sequence 64, Appl
95	29	65.9	269	1	US-08-118-270-64 Sequence 64, Appl
96	29	65.9	269	1	PCT-US93-08528-64 Sequence 69, Appl
97	29	65.9	269	1	US-08-118-270-69 Sequence 69, Appl
98	29	65.9	274	4	PCT-US93-08528-69 Sequence 66, Appl
99	29	65.9	274	4	US-08-118-270-66
100	29	65.9	275	1	

101	29	65.9	275	2	US-09-134-000C-4313	Sequence 4313, Ap	174	28	63.6	83	2	US-09-248-796A-22982	Sequence 22982, A
102	29	65.9	275	4	PCT-US93-08528-66	Sequence 66, Appl	175	28	63.6	86	2	US-09-248-796A-27524	Sequence 27524, A
103	29	65.9	277	1	US-08-118-370-68	Sequence 68, Appl	176	28	63.6	112	2	US-09-107-532A-4377	Sequence 4377, Ap
104	29	65.9	277	4	PCT-US93-08528-68	Sequence 68, Appl	177	28	63.6	112	2	US-09-513-999C-5698	Sequence 5698, Ap
105	29	65.9	284	1	US-08-118-270-67	Sequence 67, Appl	178	28	63.6	134	2	US-09-248-796A-25493	Sequence 25493, A
106	29	65.9	284	4	PCT-US93-08528-67	Sequence 67, Appl	179	28	63.6	151	2	US-09-248-796A-18562	Sequence 18562, A
107	29	65.9	299	1	US-08-576-626A-35	Sequence 35, Appl	180	28	63.6	161	2	US-09-830-230A-494	Sequence 494, Ap
108	29	65.9	312	2	US-09-674-741-18	Sequence 18, Appl	181	28	63.6	163	2	US-09-134-000C-5625	Sequence 5625, Ap
109	29	65.9	312	2	US-10-402-818-2	Sequence 2, Appl	182	28	63.6	175	2	US-09-830-230A-493	Sequence 493, Ap
110	29	65.9	312	2	US-10-379-010-18	Sequence 18, Appl	183	28	63.6	196	2	US-10-101-464A-689	Sequence 689, Ap
111	29	65.9	312	2	US-10-151-832-9	Sequence 9, Appl	184	28	63.6	207	2	US-10-135-807-2	Sequence 2, Appl
112	29	65.9	314	2	US-08-988-876-7	Sequence 7, Appl	185	28	63.6	235	2	US-09-134-000C-4920	Sequence 4920, Ap
113	29	65.9	314	2	US-09-968-033C-5	Sequence 5, Appl	186	28	63.6	268	2	US-09-438-185A-1041	Sequence 1041, Ap
114	29	65.9	334	1	US-08-287-442-9	Sequence 9, Appl	187	28	63.6	277	2	US-09-270-767-3852	Sequence 3852, A
115	29	65.9	334	1	US-08-459-701-9	Sequence 9, Appl	188	28	63.6	277	2	US-09-270-767-3852	Sequence 3852, A
116	29	65.9	334	1	US-08-460-298-9	Sequence 9, Appl	189	28	63.6	279	2	US-09-270-767-3852	Sequence 3852, A
117	29	65.9	334	1	US-08-459-174-9	Sequence 9, Appl	190	28	63.6	283	2	US-09-270-767-3852	Sequence 3852, A
118	29	65.9	335	2	US-10-012-231A-33	Sequence 33, Appl	191	28	63.6	289	2	US-10-151-833-8	Sequence 8, Appl
119	29	65.9	335	2	US-10-015-389A-33	Sequence 33, Appl	192	28	63.6	318	2	US-09-355-166-16	Sequence 16, Appl
120	29	65.9	335	2	US-10-006-768A-33	Sequence 33, Appl	193	28	63.6	339	2	US-10-101-464A-689	Sequence 689, Ap
121	29	65.9	335	2	US-10-015-671A-33	Sequence 33, Appl	194	28	63.6	339	2	US-09-118-442-6	Sequence 6, Appl
122	29	65.9	335	2	US-10-015-933A-33	Sequence 33, Appl	195	28	63.6	353	2	US-09-677-064-6	Sequence 6, Appl
123	29	65.9	335	2	US-10-011-833A-33	Sequence 33, Appl	196	28	63.6	358	2	US-09-198-452A-1049	Sequence 1049, Ap
124	29	65.9	335	2	US-10-006-041A-33	Sequence 33, Appl	197	28	63.6	358	2	US-09-438-185A-978	Sequence 978, Ap
125	29	65.9	335	2	US-10-012-064A-33	Sequence 33, Appl	198	28	63.6	383	2	US-09-434-774-12	Sequence 12, Appl
126	29	65.9	350	2	US-10-402-818-4	Sequence 4, Appl	199	28	63.6	383	2	US-09-710-279-1564	Sequence 1564, Ap
127	29	65.9	359	2	US-09-252-991A-21125	Sequence 21125, A	200	28	63.6	414	1	US-07-667-276A-4	Sequence 4, Appl
128	29	65.9	377	2	US-09-328-352-5367	Sequence 5367, Ap	201	28	63.6	424	1	US-09-252-991A-20695	Sequence 20695, A
129	29	65.9	400	1	US-08-747-887-2	Sequence 2, Appl	202	28	63.6	428	2	US-09-605-703B-1256	Sequence 1256, Ap
130	29	65.9	430	2	US-09-182-816-28	Sequence 28, Appl	203	28	63.6	441	2	US-09-605-703B-1256	Sequence 1256, Ap
131	29	65.9	430	2	US-09-471-528-28	Sequence 28, Appl	204	28	63.6	441	2	US-09-107-532A-4173	Sequence 4173, Ap
132	29	65.9	430	2	US-09-634-530-28	Sequence 28, Appl	205	28	63.6	476	2	US-09-134-001C-4117	Sequence 4117, Ap
133	29	65.9	443	2	US-09-489-039A-9335	Sequence 9335, Ap	206	28	63.6	500	2	US-10-104-047-2825	Sequence 2825, Ap
134	29	65.9	448	2	US-09-543-681A-7245	Sequence 7245, Ap	207	28	63.6	504	2	US-09-134-000C-4525	Sequence 4525, Ap
135	29	65.9	452	1	US-08-984-171-3	Sequence 3, Appl	208	28	63.6	511	2	US-09-107-532A-6112	Sequence 6112, Ap
136	29	65.9	465	2	US-09-182-816-23	Sequence 23, Appl	209	28	63.6	517	2	US-09-198-452A-446	Sequence 446, Ap
137	29	65.9	465	2	US-09-471-528-23	Sequence 23, Appl	210	28	63.6	521	2	US-09-438-185A-429	Sequence 429, Ap
138	29	65.9	465	2	US-09-634-530-23	Sequence 23, Appl	211	28	63.6	522	2	US-09-926-169-8	Sequence 8, Appl
139	29	65.9	469	2	US-09-134-000C-5065	Sequence 5065, Ap	212	28	63.6	541	2	US-09-248-796A-19528	Sequence 19528, A
140	29	65.9	476	2	US-09-248-796A-16327	Sequence 16327, A	213	28	63.6	549	2	US-09-693-146-2	Sequence 2, Appl
141	29	65.9	477	2	US-09-248-796A-26051	Sequence 26051, A	214	28	63.6	554	2	US-09-949-016-11161	Sequence 11161, A
142	29	65.9	497	2	US-09-543-681A-6694	Sequence 6694, Ap	215	28	63.6	554	2	US-09-949-016-11162	Sequence 11162, A
143	29	65.9	619	2	US-08-813-150-6	Sequence 6, Appl	216	28	63.6	583	2	US-09-270-767-38131	Sequence 38131, A
144	29	65.9	619	2	US-09-546-553-6	Sequence 6, Appl	217	28	63.6	583	2	US-09-270-767-38131	Sequence 38131, A
145	29	65.9	619	2	US-10-349-806-6	Sequence 6, Appl	218	28	63.6	583	2	US-09-949-016-8740	Sequence 8740, Ap
146	29	65.9	636	2	US-09-807-794A-175	Sequence 175, App	219	28	63.6	599	1	US-08-910-551B-2	Sequence 2, Appl
147	29	65.9	636	2	US-09-905-125A-175	Sequence 175, App	220	28	63.6	632	2	US-09-661-322A-2	Sequence 2, Appl
148	29	65.9	636	2	US-09-902-775A-175	Sequence 175, App	221	28	63.6	633	2	US-09-186-002-18	Sequence 18, Appl
149	29	65.9	636	2	US-09-906-700-175	Sequence 175, App	222	28	63.6	633	2	US-09-186-002-2	Sequence 2, Appl
150	29	65.9	636	2	US-09-903-603A-175	Sequence 175, App	223	28	63.6	634	2	US-09-186-002-12	Sequence 12, Appl
151	29	65.9	636	2	US-09-904-920A-175	Sequence 175, App	224	28	63.6	635	2	US-09-041-991A-4	Sequence 4, Appl
152	29	65.9	636	2	US-09-909-064-175	Sequence 175, App	225	28	63.6	635	2	US-09-608-533A-4	Sequence 4, Appl
153	29	65.9	636	2	US-09-905-381A-175	Sequence 175, App	226	28	63.6	635	2	US-09-328-352A-46	Sequence 46, Appl
154	29	65.9	636	2	US-09-906-618-175	Sequence 175, App	227	28	63.6	686	2	US-09-328-352-4303	Sequence 4303, Ap
155	29	65.9	636	2	US-09-906-646-175	Sequence 175, App	228	28	63.6	723	2	US-09-248-796A-15245	Sequence 15245, A
156	29	65.9	636	2	US-09-904-462-175	Sequence 175, App	229	28	63.6	759	2	US-09-949-016-6340	Sequence 6340, Ap
157	29	65.9	636	2	US-09-902-736A-175	Sequence 175, App	230	28	63.6	881	1	US-08-333-901-1	Sequence 1, Appl
158	29	65.9	636	2	US-09-906-722A-175	Sequence 175, App	231	28	63.6	881	1	US-08-456-582-1	Sequence 1, Appl
159	29	65.9	681	2	US-09-248-796A-16336	Sequence 16336, A	232	28	63.6	881	1	US-08-898-789-1	Sequence 1, Appl
160	29	65.9	713	2	US-09-248-796A-17911	Sequence 17911, A	233	28	63.6	881	2	US-09-033-555B-16	Sequence 16, Appl
161	29	65.9	728	2	US-09-489-039A-13409	Sequence 13409, A	234	28	63.6	881	2	US-09-324-258-7	Sequence 7, Appl
162	29	65.9	843	2	US-10-101-464A-893	Sequence 893, App	235	28	63.6	1017	2	US-09-538-092-319	Sequence 319, App
163	29	65.9	892	2	US-09-513-151A-4	Sequence 4, Appl	236	28	63.6	1332	2	US-09-270-767-3852	Sequence 3852, A
164	29	65.9	1880	2	US-09-552-991A-25722	Sequence 25722, A	237	28	63.6	1607	2	US-09-270-767-44362	Sequence 44362, A
165	29	65.9	1571	2	US-09-902-540-11083	Sequence 11083, A	238	27	61.4	14	2	US-09-600-588A-11	Sequence 4, Appl
166	29	65.9	3038	1	US-08-450-332-2	Sequence 2, Appl	239	27	61.4	60	2	US-08-706-344C-11	Sequence 11, Appl
167	29	65.9	3038	1	US-08-637-640-2	Sequence 2, Appl	240	27	61.4	63	2	US-09-513-999C-74455	Sequence 74455, Ap
168	29	65.9	3038	1	US-09-004-406C-2	Sequence 2, Appl	241	27	61.4	67	2	US-09-540-236-2949	Sequence 2949, Ap
169	28	63.6	61	2	US-09-134-001C-4270	Sequence 4270, Ap	242	27	61.4	74	2	US-09-134-001C-5620	Sequence 5620, Ap
170	28	63.6	61	2	US-09-248-796A-27222	Sequence 27222, A	243	27	61.4	85	2	US-09-103-478-27	Sequence 27, Appl
171	28	63.6	66	2	US-09-311-689B-42	Sequence 42, Appl	244	27	61.4	85	2	US-09-193-931C-27	Sequence 27, Appl
172	28	63.6	66	2	US-09-311-689B-43	Sequence 43, Appl	245	27	61.4	85	2	US-09-516-052-37	Sequence 37, Appl
173	28	63.6	70	2	US-09-134-000C-6334	Sequence 6334, Ap	246	27	61.4	92	2	US-09-270-767-46770	Sequence 46770, A

247	27	61.4	101	2	US-09-270-767-35313	Sequence 35313, A	320	27	61.4	319	2	US-09-008-697A-6	Sequence 6, Appl1
248	27	61.4	101	2	US-09-270-767-50530	Sequence 50530, A	321	27	61.4	324	2	US-10-166-653-6	Sequence 6, Appl1
249	27	61.4	102	2	US-09-438-185A-144	Sequence 144, App	322	27	61.4	328	2	US-09-270-767-44254	Sequence 44254, A
250	27	61.4	104	2	US-09-230-485-9	Sequence 9, Appl1	323	27	61.4	346	2	US-09-585-876-2	Sequence 2, Appl1
251	27	61.4	114	2	US-09-621-976-6093	Sequence 6093, Ap	324	27	61.4	346	2	US-09-979-603-2	Sequence 2, Appl1
252	27	61.4	127	2	US-09-270-767-33138	Sequence 33138, A	325	27	61.4	346	2	US-10-314-048A-14	Sequence 14, Appl1
253	27	61.4	127	2	US-09-270-767-48355	Sequence 48355, A	326	27	61.4	346	2	US-10-314-048A-88	Sequence 88, Appl1
254	27	61.4	146	2	US-09-107-532A-5046	Sequence 5046, Ap	327	27	61.4	350	1	US-08-415-751-20	Sequence 20, Appl1
255	27	61.4	150	2	US-09-107-433-2970	Sequence 2970, Ap	328	27	61.4	353	1	US-08-118-270-45	Sequence 45, Appl1
256	27	61.4	158	2	US-09-543-681A-6919	Sequence 6919, Ap	329	27	61.4	353	4	PCT-US93-08528-45	Sequence 45, Appl1
257	27	61.4	159	2	US-10-324-316-28	Sequence 28, Appl1	330	27	61.4	355	2	US-09-711-164-417	Sequence 417, App
258	27	61.4	162	2	US-09-621-976-4102	Sequence 4102, Ap	331	27	61.4	357	2	US-10-104-047-3150	Sequence 3150, Ap
259	27	61.4	184	2	US-09-543-681A-4219	Sequence 4219, Ap	332	27	61.4	358	2	US-09-248-796A-25048	Sequence 25048, A
259	27	61.4	187	2	US-09-270-767-42688	Sequence 42688, A	333	27	61.4	360	1	US-08-459-346-13	Sequence 13, Appl1
260	27	61.4	188	2	US-09-270-767-3787	Sequence 3787, A	334	27	61.4	360	1	US-08-889-419-13	Sequence 13, Appl1
261	27	61.4	188	2	US-09-270-767-53004	Sequence 53004, A	335	27	61.4	360	2	US-08-402-542-13	Sequence 4, Appl1
262	27	61.4	188	2	US-09-270-767-53004	Sequence 10, Appl1	336	27	61.4	360	2	US-09-361-741-4	Sequence 4, Appl1
263	27	61.4	220	1	US-08-063-552-10	Sequence 10, Appl1	337	27	61.4	360	2	US-09-461-418-4	Sequence 13634, A
264	27	61.4	220	4	PCT-US93-05704-10	Sequence 2359, Ap	338	27	61.4	360	2	US-09-461-418-4	Sequence 13634, A
265	27	61.4	223	2	US-09-540-436-6359	Sequence 2359, Ap	339	27	61.4	360	2	PCT-US93-07188-13	Sequence 13, Appl1
266	27	61.4	225	2	US-09-489-039A-10152	Sequence 10152, A	340	27	61.4	361	2	US-09-134-000C-5307	Sequence 5307, Ap
267	27	61.4	229	2	US-09-710-279-3018	Sequence 3018, Ap	341	27	61.4	361	2	US-09-008-697A-12	Sequence 12, Appl1
268	27	61.4	231	2	US-09-134-001C-4124	Sequence 4124, Ap	342	27	61.4	364	2	US-09-008-697A-12	Sequence 4029, Ap
269	27	61.4	235	1	US-08-928-443-4	Sequence 4, Appl1	343	27	61.4	373	2	US-09-134-001C-4029	Sequence 42162, A
270	27	61.4	235	1	US-09-129-055-4	Sequence 4, Appl1	344	27	61.4	376	2	US-09-270-767-42162	Sequence 2, Appl1
271	27	61.4	235	2	US-09-949-016-6375	Sequence 6375, Ap	345	27	61.4	386	2	US-08-694-915-2	Sequence 836, Ap
272	27	61.4	238	2	US-09-134-000C-3467	Sequence 3467, Ap	346	27	61.4	386	2	US-09-949-016-8736	Sequence 7991, Ap
273	27	61.4	239	1	US-08-114-555A-12	Sequence 12, Appl1	347	27	61.4	403	2	US-09-328-352-7791	Sequence 12039, A
274	27	61.4	239	2	US-08-559-397A-17	Sequence 17, Appl1	348	27	61.4	404	2	US-09-489-039A-12039	Sequence 4, Appl1
275	27	61.4	244	2	US-10-324-316-10	Sequence 10, Appl1	349	27	61.4	416	1	US-08-694-915-4	Sequence 61404, A
276	27	61.4	250	2	US-09-949-016-10493	Sequence 10493, A	350	27	61.4	416	2	US-09-270-767-61404	Sequence 24390, A
277	27	61.4	253	2	US-08-929-329-9	Sequence 9, Appl1	351	27	61.4	417	2	US-09-248-796A-24390	Sequence 2, Appl1
278	27	61.4	259	2	US-09-248-796A-15939	Sequence 15939, A	352	27	61.4	423	2	US-08-850-348A-12	Sequence 4661, Ap
279	27	61.4	265	2	US-09-543-681A-6508	Sequence 6508, Ap	353	27	61.4	434	2	US-09-328-352-4261	Sequence 18973, A
280	27	61.4	266	2	US-09-248-796A-20072	Sequence 20072, A	354	27	61.4	441	2	US-09-248-796A-18973	Sequence 4465, A
281	27	61.4	268	2	US-09-747-802-1	Sequence 12, Appl1	355	27	61.4	447	2	US-09-270-767-45465	Sequence 288, App
282	27	61.4	271	2	US-09-085-305-12	Sequence 12, Appl1	356	27	61.4	447	2	US-09-248-796A-14646	Sequence 1846, App
283	27	61.4	274	2	US-09-248-796A-25184	Sequence 25184, A	357	27	61.4	465	1	US-08-471-96-9	Sequence 9, Appl1
284	27	61.4	279	2	US-09-900-575-23	Sequence 23, Appl1	358	27	61.4	465	1	US-08-894-840-9	Sequence 9, Appl1
285	27	61.4	279	2	US-09-900-575-24	Sequence 24, Appl1	359	27	61.4	465	2	US-09-139-675-9	Sequence 9, Appl1
286	27	61.4	279	2	US-09-900-575-25	Sequence 25, Appl1	360	27	61.4	465	2	US-09-502-018-9	Sequence 2593, Ap
287	27	61.4	279	2	US-09-900-575-26	Sequence 26, Appl1	361	27	61.4	465	2	US-09-540-236-2593	Sequence 9907, Ap
288	27	61.4	279	2	US-09-900-575-27	Sequence 27, Appl1	362	27	61.4	466	2	US-09-949-016-9907	Sequence 15101, A
289	27	61.4	279	2	US-09-900-575-28	Sequence 28, Appl1	363	27	61.4	486	2	US-09-248-796A-15101	Sequence 7803, Ap
290	27	61.4	279	2	US-09-900-575-29	Sequence 31, Appl1	364	27	61.4	486	2	US-09-489-039A-7203	Sequence 2, Appl1
291	27	61.4	279	2	US-09-900-575-31	Sequence 31, Appl1	365	27	61.4	521	1	PCT-US93-05704-2	Sequence 4759, Ap
292	27	61.4	279	2	US-09-900-575-32	Sequence 32, Appl1	366	27	61.4	521	2	US-09-114-000C-4759	Sequence 25613, A
293	27	61.4	279	2	US-09-900-575-33	Sequence 33, Appl1	367	27	61.4	561	2	US-09-248-796A-25413	Sequence 45873, A
294	27	61.4	279	2	US-09-900-575-34	Sequence 34, Appl1	368	27	61.4	561	2	US-09-022-949-2	Sequence 5490, Ap
295	27	61.4	279	2	US-09-900-575-35	Sequence 35, Appl1	369	27	61.4	583	2	US-09-328-352-5490	Sequence 7207, Ap
296	27	61.4	279	2	US-09-900-575-36	Sequence 36, Appl1	370	27	61.4	584	2	US-09-489-039A-7207	Sequence 522, App
297	27	61.4	279	2	US-09-900-575-37	Sequence 37, Appl1	371	27	61.4	602	2	US-09-198-452A-522	Sequence 102, App
298	27	61.4	279	2	US-09-900-575-38	Sequence 38, Appl1	372	27	61.4	637	2	US-07-618-96A-102	Sequence 8203, Ap
299	27	61.4	279	2	US-09-900-575-39	Sequence 39, Appl1	373	27	61.4	739	2	US-07-328-352-8203	Sequence 23, Appl1
300	27	61.4	279	2	US-09-900-575-40	Sequence 40, Appl1	374	27	61.4	800	2	US-09-248-796A-19106	Sequence 19106, A
301	27	61.4	279	2	US-09-900-575-41	Sequence 41, Appl1	375	27	61.4	814	1	US-07-618-96A-823	Sequence 46693, A
302	27	61.4	279	2	US-09-900-575-42	Sequence 42, Appl1	376	27	61.4	852	2	US-09-270-767-46693	Sequence 29820, A
303	27	61.4	279	2	US-09-900-575-43	Sequence 43, Appl1	377	27	61.4	868	2	US-09-252-991A-29820	Sequence 15, Appl1
304	27	61.4	279	2	US-09-900-575-44	Sequence 44, Appl1	378	27	61.4	922	2	US-09-198-452A-15	Sequence 682, App
305	27	61.4	279	2	US-09-900-575-45	Sequence 45, Appl1	379	27	61.4	935	2	US-09-538-092-682	Sequence 485, App
306	27	61.4	279	2	US-09-900-575-55	Sequence 55, Appl1	380	27	61.4	1045	2	US-09-830-230A-10	Sequence 9, Appl1
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308	27	61.4	282	2	US-09-583-110-3134	Sequence 3134, Ap	382	27	61.4	1146	2	US-08-609-049A-13	Sequence 13, Appl1
309	27	61.4	282	2	US-09-107-433-3050	Sequence 3050, Ap	383	27	61.4	1658	2	US-09-170-996-13	Sequence 8332, Ap
310	27	61.4	284	2	US-09-248-796A-18540	Sequence 18540, A	384	27	61.4	1666	2	US-09-949-016-3322	Sequence 2, Appl1
311	27	61.4	288	2	US-09-949-016-8801	Sequence 8801, Ap	385	27	61.4	1686	2	US-09-355-160D-2	Sequence 2, Appl1
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315	27	61.4	300	2	US-09-492-709A-367	Sequence 367, App	389	27	61.4				
316	27	61.4	303	2	US-09-252-991A-8605	Sequence 28605, A	390	27	61.4				
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397	27	61.4	1912	2	US-09-495-714C-2	Sequence 2, Appl1
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399	27	61.4	1968	1	US-08-455-543A-45	Sequence 45, Appl1
400	27	61.4	1968	1	US-08-223-305C-45	Sequence 45, Appl1
401	27	61.4	1968	1	US-08-311-763-7	Sequence 7, Appl1
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417	27	61.4	2710	2	US-08-957-310-6	Sequence 6, Appl1
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419	27	61.4	2710	2	US-09-084-517-6	Sequence 6, Appl1
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422	27	61.4	3712	1	US-08-222-617A-25	Sequence 25, Appl1
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425	27	61.4	3830	2	US-09-693-205A-4	Sequence 4, Appl1
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432	26	59.1	15	2	US-09-073-010-97	Sequence 97, Appl1
433	26	59.1	15	2	US-09-073-010-98	Sequence 98, Appl1
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440	26	59.1	57	2	US-08-932-411A-8	Sequence 8, Appl1
441	26	59.1	61	2	US-09-134-001C-5535	Sequence 5535, Ap
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443	26	59.1	62	2	US-09-927-357-233	Sequence 233, App
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445	26	59.1	63	2	US-10-054-988-89	Sequence 89, Appl1
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455	26	59.1	82	2	US-10-054-988-151	Sequence 151, App
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458	26	59.1	99	2	US-09-073-009-33	Sequence 33, Appl1
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489	26	59.1	122	2	US-08-988-197-3	Sequence 3, Appl1
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532	26	59.1	162	2	US-09-923-246-113	Sequence 113, App
533	26	59.1	162	2	US-10-295-733-113	Sequence 113, App
534	26	59.1	162	2	US-09-855-713A-4	Sequence 4, Appl1
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548	26	59.1	173	2	US-09-270-767-60525	Sequence 60525, A	621	26	59.1	342	2	US-09-248-796A-22600	Sequence 20049, A
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551	26	59.1	179	2	US-09-134-000C-4412	Sequence 4412, Ap	624	26	59.1	348	2	US-09-454-196-17	Sequence 17, Appl
552	26	59.1	180	2	US-09-393-634-33	Sequence 33, Appl	625	26	59.1	348	2	US-09-064-033-8	Sequence 8, Appl1
553	26	59.1	183	2	US-09-621-976-4025	Sequence 4025, Ap	626	26	59.1	348	2	US-09-291-046-8	Sequence 8, Appl1
554	26	59.1	185	2	US-09-270-767-35241	Sequence 35241, A	627	26	59.1	348	2	US-09-591-046-17	Sequence 17, Appl
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556	26	59.1	186	2	US-09-248-796A-23157	Sequence 23157, A	629	26	59.1	351	2	US-09-585-645A-46	Sequence 46, Appl
557	26	59.1	194	2	US-09-218-363-17	Sequence 17, Appl	630	26	59.1	354	2	US-09-585-645A-2	Sequence 2, Appl1
558	26	59.1	194	2	US-09-772-105-17	Sequence 17, Appl	631	26	59.1	354	2	US-09-585-645A-58	Sequence 58, Appl
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562	26	59.1	204	2	US-10-101-664A-790	Sequence 790, App	635	26	59.1	359	2	US-09-653-375B-8	Sequence 8, Appl1
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564	26	59.1	220	1	US-08-763-121-4	Sequence 4, Appl1	637	26	59.1	364	2	US-09-328-352-7979	Sequence 7979, Ap
565	26	59.1	220	1	US-09-216-066-4	Sequence 21149, A	638	26	59.1	366	2	US-09-328-352-7979	Sequence 5920, Ap
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573	26	59.1	257	2	US-10-015-389A-225	Sequence 225, App	646	26	59.1	386	2	US-09-902-540-15525	Sequence 3809, Ap
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576	26	59.1	257	2	US-10-015-393A-225	Sequence 225, App	649	26	59.1	389	2	US-09-583-110-3139	Sequence 13139, Ap
577	26	59.1	257	2	US-10-011-833A-225	Sequence 225, App	650	26	59.1	389	2	US-09-583-110-3139	Sequence 4749, Ap
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586	26	59.1	266	2	US-09-772-105-8	Sequence 8, Appl1	659	26	59.1	412	2	US-09-543-681A-6782	Sequence 6782, Ap
587	26	59.1	267	2	US-09-218-363-10	Sequence 10, Appl	660	26	59.1	419	2	US-09-843-905A-6	Sequence 6, Appl1
588	26	59.1	267	2	US-09-772-105-10	Sequence 10, Appl	661	26	59.1	420	2	US-09-843-905A-8	Sequence 8, Appl1
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590	26	59.1	270	2	US-09-328-352-4465	Sequence 4465, Ap	663	26	59.1	422	2	US-09-949-016-9582	Sequence 9731, Ap
591	26	59.1	271	2	US-09-134-000C-4879	Sequence 4879, Ap	664	26	59.1	423	2	US-09-902-540-9731	Sequence 11, Appl
592	26	59.1	278	2	US-09-248-796A-16552	Sequence 16552, A	665	26	59.1	441	2	US-09-297-937C-11	Sequence 60765, A
593	26	59.1	283	2	US-09-270-767-38878	Sequence 38878, A	666	26	59.1	442	2	US-09-270-767-60755	Sequence 345, App
594	26	59.1	283	2	US-09-270-767-54095	Sequence 54095, A	667	26	59.1	462	2	US-09-711-164-345	Sequence 416, App
595	26	59.1	283	2	US-09-270-767-61451	Sequence 61451, A	668	26	59.1	469	2	US-09-538-092-416	Sequence 42465, A
596	26	59.1	285	2	US-09-328-352-6881	Sequence 6881, Ap	669	26	59.1	473	2	US-09-107-532A-4200	Sequence 17950, A
597	26	59.1	290	2	US-09-218-363-4	Sequence 4, Appl1	670	26	59.1	484	2	US-09-248-796A-17959	Sequence 11457, A
598	26	59.1	290	2	US-09-772-105-4	Sequence 4, Appl1	671	26	59.1	490	2	US-10-159-901-40	Sequence 11457, A
599	26	59.1	304	1	US-08-424-641B-4	Sequence 4, Appl1	672	26	59.1	502	2	US-09-902-540-11457	Sequence 42462, A
600	26	59.1	304	1	US-08-820-980-4	Sequence 4, Appl1	673	26	59.1	507	2	US-09-270-767-42562	Sequence 24, Appl
601	26	59.1	304	1	US-08-826-439-4	Sequence 4, Appl1	674	26	59.1	515	2	US-09-679-686B-24	Sequence 24845, A
602	26	59.1	304	1	US-08-913-159-8	Sequence 8, Appl1	675	26	59.1	515	2	US-09-252-991A-24845	Sequence 2, Appl1
603	26	59.1	305	2	US-09-328-352-5868	Sequence 5868, Ap	676	26	59.1	541	2	US-08-468-011A-2	Sequence 2, Appl1
604	26	59.1	306	2	US-09-270-767-57870	Sequence 57870, A	677	26	59.1	541	2	US-09-236-468A-2	Sequence 25057, A
605	26	59.1	309	2	US-08-969-644-20	Sequence 20, Appl	678	26	59.1	541	2	US-09-248-796A-25057	Sequence 2, Appl1
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607	26	59.1	309	2	US-08-468-544-20	Sequence 20, Appl	680	26	59.1	547	4	US-09-176-657-1	Sequence 1, Appl1
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609	26	59.1	317	2	US-09-270-767-53507	Sequence 53507, A	682	26	59.1	548	2	US-09-205-258-164	Sequence 264, App
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611	26	59.1	325	2	US-09-710-279-1076	Sequence 1076, Ap	684	26	59.1	550	2	US-09-631-603-20	Sequence 20, Appl

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689	26	59.1	570	2	US-09-248-796A-15079	Sequence 15079, A	762	26	59.1	652	2	US-08-993-722A-10	Sequence 10, Appl1
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691	26	59.1	576	2	US-09-248-796A-20352	Sequence 20352, A	764	26	59.1	652	2	US-08-993-722A-14	Sequence 14, Appl1
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695	26	59.1	599	2	US-09-602-787A-354	Sequence 354, App	768	26	59.1	652	2	US-08-993-722A-22	Sequence 22, Appl1
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699	26	59.1	616	2	US-09-540-236-3084	Sequence 3084, Ap	772	26	59.1	652	2	US-08-993-722A-30	Sequence 30, Appl1
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703	26	59.1	649	2	US-08-911-853-15	Sequence 15, Appl1	776	26	59.1	652	2	US-08-993-722A-38	Sequence 38, Appl1
704	26	59.1	649	2	US-09-479-409-15	Sequence 15, Appl1	777	26	59.1	652	2	US-08-993-722A-40	Sequence 40, Appl1
705	26	59.1	649	2	US-09-479-453-15	Sequence 15, Appl1	778	26	59.1	652	2	US-08-993-722A-42	Sequence 42, Appl1
706	26	59.1	651	2	US-08-996-441B-52	Sequence 52, Appl1	779	26	59.1	652	2	US-08-993-722A-44	Sequence 44, Appl1
707	26	59.1	651	2	US-08-996-441B-56	Sequence 56, Appl1	780	26	59.1	652	2	US-08-993-722A-46	Sequence 46, Appl1
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713	26	59.1	651	2	US-08-993-170A-56	Sequence 56, Appl1	786	26	59.1	652	2	US-08-993-722A-64	Sequence 64, Appl1
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717	26	59.1	651	2	US-08-993-775B-58	Sequence 58, Appl1	790	26	59.1	652	2	US-08-993-722A-108	Sequence 108, App
718	26	59.1	651	2	US-09-427-770-52	Sequence 52, Appl1	791	26	59.1	652	2	US-08-993-722A-111	Sequence 111, Appl1
719	26	59.1	651	2	US-09-427-770-56	Sequence 56, Appl1	792	26	59.1	652	2	US-08-993-170A-2	Sequence 2, Appl1
720	26	59.1	651	2	US-09-427-770-58	Sequence 58, Appl1	793	26	59.1	652	2	US-08-993-170A-4	Sequence 4, Appl1
721	26	59.1	651	2	US-09-427-769-52	Sequence 52, Appl1	794	26	59.1	652	2	US-08-993-170A-6	Sequence 6, Appl1
722	26	59.1	651	2	US-09-427-769-56	Sequence 56, Appl1	795	26	59.1	652	2	US-08-993-170A-8	Sequence 8, Appl1
723	26	59.1	651	2	US-09-427-769-58	Sequence 58, Appl1	796	26	59.1	652	2	US-08-993-170A-10	Sequence 10, Appl1
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726	26	59.1	652	2	US-08-996-441B-6	Sequence 6, Appl1	799	26	59.1	652	2	US-08-993-170A-16	Sequence 16, Appl1
727	26	59.1	652	2	US-08-996-441B-8	Sequence 8, Appl1	800	26	59.1	652	2	US-08-993-170A-18	Sequence 18, Appl1
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729	26	59.1	652	2	US-08-996-441B-12	Sequence 12, Appl1	802	26	59.1	652	2	US-08-993-170A-22	Sequence 22, Appl1
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732	26	59.1	652	2	US-08-996-441B-18	Sequence 18, Appl1	805	26	59.1	652	2	US-08-993-170A-28	Sequence 28, Appl1
733	26	59.1	652	2	US-08-996-441B-20	Sequence 20, Appl1	806	26	59.1	652	2	US-08-993-170A-30	Sequence 30, Appl1
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737	26	59.1	652	2	US-08-996-441B-28	Sequence 28, Appl1	810	26	59.1	652	2	US-08-993-170A-38	Sequence 38, Appl1
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739	26	59.1	652	2	US-08-996-441B-32	Sequence 32, Appl1	812	26	59.1	652	2	US-08-993-170A-42	Sequence 42, Appl1
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742	26	59.1	652	2	US-08-996-441B-38	Sequence 38, Appl1	815	26	59.1	652	2	US-08-993-170A-48	Sequence 48, Appl1
743	26	59.1	652	2	US-08-996-441B-40	Sequence 40, Appl1	816	26	59.1	652	2	US-08-993-170A-50	Sequence 50, Appl1
744	26	59.1	652	2	US-08-996-441B-42	Sequence 42, Appl1	817	26	59.1	652	2	US-08-993-170A-54	Sequence 54, Appl1
745	26	59.1	652	2	US-08-996-441B-44	Sequence 44, Appl1	818	26	59.1	652	2	US-08-993-170A-60	Sequence 60, Appl1
746	26	59.1	652	2	US-08-996-441B-46	Sequence 46, Appl1	819	26	59.1	652	2	US-08-993-170A-62	Sequence 62, Appl1
747	26	59.1	652	2	US-08-996-441B-48	Sequence 48, Appl1	820	26	59.1	652	2	US-08-993-170A-64	Sequence 64, Appl1
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749	26	59.1	652	2	US-08-996-441B-54	Sequence 54, Appl1	822	26	59.1	652	2	US-08-993-170A-68	Sequence 68, Appl1
750	26	59.1	652	2	US-08-996-441B-60	Sequence 60, Appl1	823	26	59.1	652	2	US-08-993-170A-98	Sequence 98, Appl1
751	26	59.1	652	2	US-08-996-441B-62	Sequence 62, Appl1	824	26	59.1	652	2	US-08-993-170A-108	Sequence 108, App
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753	26	59.1	652	2	US-08-996-441B-66	Sequence 66, Appl1	826	26	59.1	652	2	US-08-993-775B-4	Sequence 4, Appl1
754	26	59.1	652	2	US-08-996-441B-68	Sequence 68, Appl1	827	26	59.1	652	2	US-08-993-775B-6	Sequence 6, Appl1
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756	26	59.1	652	2	US-08-996-441B-108	Sequence 108, App	829	26	59.1	652	2	US-08-993-775B-10	Sequence 10, Appl1
757	26	59.1	652	2	US-08-996-441B-111	Sequence 111, App	830	26	59.1	652	2		

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832	26	59.1	652	2	US-08-993-775B-14	Sequence 14, Appl	905	26	59.1	652	2	US-09-427-769-20	Sequence 20, Appl
833	26	59.1	652	2	US-08-993-775B-16	Sequence 16, Appl	906	26	59.1	652	2	US-09-427-769-22	Sequence 22, Appl
834	26	59.1	652	2	US-08-993-775B-18	Sequence 18, Appl	907	26	59.1	652	2	US-09-427-769-24	Sequence 24, Appl
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840	26	59.1	652	2	US-08-993-775B-30	Sequence 30, Appl	913	26	59.1	652	2	US-09-427-769-36	Sequence 36, Appl
841	26	59.1	652	2	US-08-993-775B-32	Sequence 32, Appl	914	26	59.1	652	2	US-09-427-769-38	Sequence 38, Appl
842	26	59.1	652	2	US-08-993-775B-34	Sequence 34, Appl	915	26	59.1	652	2	US-09-427-769-40	Sequence 40, Appl
843	26	59.1	652	2	US-08-993-775B-36	Sequence 36, Appl	916	26	59.1	652	2	US-09-427-769-42	Sequence 42, Appl
844	26	59.1	652	2	US-08-993-775B-38	Sequence 38, Appl	917	26	59.1	652	2	US-09-427-769-44	Sequence 44, Appl
845	26	59.1	652	2	US-08-993-775B-40	Sequence 40, Appl	918	26	59.1	652	2	US-09-427-769-46	Sequence 46, Appl
846	26	59.1	652	2	US-08-993-775B-42	Sequence 42, Appl	919	26	59.1	652	2	US-09-427-769-48	Sequence 48, Appl
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848	26	59.1	652	2	US-08-993-775B-46	Sequence 46, Appl	921	26	59.1	652	2	US-09-427-769-52	Sequence 52, Appl
849	26	59.1	652	2	US-08-993-775B-48	Sequence 48, Appl	922	26	59.1	652	2	US-09-427-769-54	Sequence 54, Appl
850	26	59.1	652	2	US-08-993-775B-50	Sequence 50, Appl	923	26	59.1	652	2	US-09-427-769-56	Sequence 56, Appl
851	26	59.1	652	2	US-08-993-775B-52	Sequence 52, Appl	924	26	59.1	652	2	US-09-427-769-58	Sequence 58, Appl
852	26	59.1	652	2	US-08-993-775B-54	Sequence 54, Appl	925	26	59.1	652	2	US-09-427-769-60	Sequence 60, Appl
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854	26	59.1	652	2	US-08-993-775B-58	Sequence 58, Appl	927	26	59.1	652	2	US-09-427-769-64	Sequence 64, Appl
855	26	59.1	652	2	US-08-993-775B-60	Sequence 60, Appl	928	26	59.1	652	2	US-09-427-769-66	Sequence 66, Appl
856	26	59.1	652	2	US-08-993-775B-62	Sequence 62, Appl	929	26	59.1	652	2	US-09-427-769-68	Sequence 68, Appl
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859	26	59.1	652	2	US-08-993-775B-68	Sequence 68, Appl	932	26	59.1	652	2	US-10-232-665-4	Sequence 4, Appl
860	26	59.1	652	2	US-08-993-775B-70	Sequence 70, Appl	933	26	59.1	652	2	US-08-996-441B-100	Sequence 100, Appl
861	26	59.1	652	2	US-09-377-466B-6	Sequence 6, Appl	934	26	59.1	653	2	US-08-993-722A-100	Sequence 100, Appl
862	26	59.1	652	2	US-09-427-770-2	Sequence 2, Appl	935	26	59.1	653	2	US-08-993-170A-100	Sequence 100, Appl
863	26	59.1	652	2	US-09-427-770-4	Sequence 4, Appl	936	26	59.1	653	2	US-08-993-775B-100	Sequence 100, Appl
864	26	59.1	652	2	US-09-427-770-6	Sequence 6, Appl	937	26	59.1	653	2	US-09-377-466B-8	Sequence 8, Appl
865	26	59.1	652	2	US-09-427-770-8	Sequence 8, Appl	938	26	59.1	653	2	US-09-377-466B-10	Sequence 10, Appl
866	26	59.1	652	2	US-09-427-770-10	Sequence 10, Appl	939	26	59.1	653	2	US-09-377-466B-12	Sequence 12, Appl
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868	26	59.1	652	2	US-09-427-770-14	Sequence 14, Appl	941	26	59.1	653	2	US-09-377-466B-16	Sequence 16, Appl
869	26	59.1	652	2	US-09-427-770-16	Sequence 16, Appl	942	26	59.1	653	2	US-09-377-466B-18	Sequence 18, Appl
870	26	59.1	652	2	US-09-427-770-18	Sequence 18, Appl	943	26	59.1	653	2	US-09-377-466B-20	Sequence 20, Appl
871	26	59.1	652	2	US-09-427-770-20	Sequence 20, Appl	944	26	59.1	653	2	US-09-377-466B-22	Sequence 22, Appl
872	26	59.1	652	2	US-09-427-770-22	Sequence 22, Appl	945	26	59.1	653	2	US-09-377-466B-24	Sequence 24, Appl
873	26	59.1	652	2	US-09-427-770-24	Sequence 24, Appl	946	26	59.1	653	2	US-09-377-466B-26	Sequence 26, Appl
874	26	59.1	652	2	US-09-427-770-26	Sequence 26, Appl	947	26	59.1	653	2	US-09-377-466B-28	Sequence 28, Appl
875	26	59.1	652	2	US-09-427-770-28	Sequence 28, Appl	948	26	59.1	653	2	US-09-427-770-100	Sequence 100, Appl
876	26	59.1	652	2	US-09-427-770-30	Sequence 30, Appl	949	26	59.1	653	2	US-09-427-769-100	Sequence 100, Appl
877	26	59.1	652	2	US-09-427-770-32	Sequence 32, Appl	950	26	59.1	653	2	US-10-232-665-8	Sequence 8, Appl
878	26	59.1	652	2	US-09-427-770-34	Sequence 34, Appl	951	26	59.1	653	2	US-10-232-665-10	Sequence 10, Appl
879	26	59.1	652	2	US-09-427-770-36	Sequence 36, Appl	952	26	59.1	653	2	US-10-232-665-12	Sequence 12, Appl
880	26	59.1	652	2	US-09-427-770-38	Sequence 38, Appl	953	26	59.1	653	2	US-10-232-665-14	Sequence 14, Appl
881	26	59.1	652	2	US-09-427-770-40	Sequence 40, Appl	954	26	59.1	653	2	US-10-232-665-16	Sequence 16, Appl
882	26	59.1	652	2	US-09-427-770-42	Sequence 42, Appl	955	26	59.1	653	2	US-10-232-665-18	Sequence 18, Appl
883	26	59.1	652	2	US-09-427-770-44	Sequence 44, Appl	956	26	59.1	653	2	US-10-232-665-20	Sequence 20, Appl
884	26	59.1	652	2	US-09-427-770-46	Sequence 46, Appl	957	26	59.1	653	2	US-10-232-665-22	Sequence 22, Appl
885	26	59.1	652	2	US-09-427-770-48	Sequence 48, Appl	958	26	59.1	653	2	US-10-232-665-24	Sequence 24, Appl
886	26	59.1	652	2	US-09-427-770-50	Sequence 50, Appl	959	26	59.1	653	2	US-10-332-665-39	Sequence 39, Appl
887	26	59.1	652	2	US-09-427-770-54	Sequence 54, Appl	960	26	59.1	653	2	US-09-134-001C-5039	Sequence 5039, Appl
888	26	59.1	652	2	US-09-427-770-60	Sequence 60, Appl	961	26	59.1	653	2	US-09-134-001C-5039	Sequence 5039, Appl
889	26	59.1	652	2	US-09-427-770-62	Sequence 62, Appl	962	26	59.1	653	2	US-09-427-769-14566	Sequence 14566, Appl
890	26	59.1	652	2	US-09-427-770-64	Sequence 64, Appl	963	26	59.1	653	2	US-09-427-769-42292	Sequence 42292, Appl
891	26	59.1	652	2	US-09-427-770-66	Sequence 66, Appl	964	26	59.1	653	2	US-08-792-832A-2	Sequence 2, Appl
892	26	59.1	652	2	US-09-427-770-68	Sequence 68, Appl	965	26	59.1	653	2	US-09-881-578A-2	Sequence 2, Appl
893	26	59.1	652	2	US-09-427-770-98	Sequence 98, Appl	966	26	59.1	653	2	US-09-711-164-300	Sequence 300, Appl
894	26	59.1	652	2	US-09-427-770-108	Sequence 108, Appl	967	26	59.1	653	2	US-09-540-236-2044	Sequence 2044, Appl
895	26	59.1	652	2	US-09-427-770-111	Sequence 111, Appl	968	26	59.1	653	2	US-09-248-796A-15053	Sequence 15053, Appl
896	26	59.1	652	2	US-09-427-769-2	Sequence 2, Appl	969	26	59.1	653	2	US-09-270-767-45272	Sequence 45272, Appl
897	26	59.1	652	2	US-09-427-769-4	Sequence 4, Appl	970	26	59.1	653	2	US-09-889-039A-7191	Sequence 7191, Appl
898	26	59.1	652	2	US-09-427-769-6	Sequence 6, Appl	971	26	59.1	653	2	US-09-543-681A-4886	Sequence 4886, Appl
899	26	59.1	652	2	US-09-427-769-8	Sequence 8, Appl	972	26	59.1	653	2	US-09-489-039A-11317	Sequence 11317, Appl
900	26	59.1	652	2	US-09-427-769-10	Sequence 10, Appl	973	26	59.1	653	2	US-09-792-024-119	Sequence 119, Appl
901	26	59.1	652	2	US-09-427-769-12	Sequence 12, Appl	974	26	59.1	653	2	US-07-717-31F-2	Sequence 2, Appl
902	26	59.1	652	2	US-09-427-769-14	Sequence 14, Appl	975	26	59.1	653	2	US-09-543-681A-4249	Sequence 4249, Appl
903	26	59.1	652	2	US-09-427-769-16	Sequence 16, Appl	976	26	59.1	653	2		

977 26 59.1 910 2 US-09-228-986-72 Sequence 72, Appl
978 26 59.1 910 2 US-10-101-464A-72 Sequence 72, Appl
979 26 59.1 928 2 US-09-635-872A-1 Sequence 1, Appl
980 26 59.1 928 2 US-09-636-077A-1 Sequence 1, Appl
981 26 59.1 928 2 US-09-636-060C-1 Sequence 1, Appl
982 26 59.1 928 2 US-09-986-552-1 Sequence 1, Appl
983 26 59.1 928 2 US-09-636-596C-1 Sequence 1, Appl
984 26 59.1 928 2 US-10-023-894-4 Sequence 4, Appl
985 26 59.1 928 2 US-10-306-686-1 Sequence 1, Appl
986 26 59.1 928 2 US-09-895-072-1 Sequence 1, Appl
987 26 59.1 928 2 US-10-023-888-4 Sequence 4, Appl
988 26 59.1 931 2 US-08-624-655A-2 Sequence 2, Appl
989 26 59.1 981 2 US-09-489-039A-8796 Sequence 8796, Ap
990 26 59.1 1048 2 US-09-921-099A-11 Sequence 11, Appl
991 26 59.1 1049 2 US-08-772-270A-11 Sequence 11, Appl
992 26 59.1 1115 2 US-08-323-477-2 Sequence 2, Appl
993 26 59.1 1115 2 US-10-193-950A-2 Sequence 2, Appl
994 26 59.1 1199 2 US-10-023-894-2 Sequence 2, Appl
995 26 59.1 1199 2 US-10-023-888-2 Sequence 2, Appl
996 26 59.1 1207 2 US-09-593-828-17 Sequence 17, Appl
997 26 59.1 1222 2 US-09-593-828-15 Sequence 15, Appl
998 26 59.1 1244 4 PCT-US93-10500-2 Sequence 2, Appl
999 26 59.1 1276 2 US-09-297-937C-13 Sequence 13, Appl
1000 26 59.1 1333 1 US-08-447-411-76 Sequence 76, Appl

ALIGNMENTS

RESULT 1
US-08-934-915-66
Sequence 66, Application US/08934915
Patent No. 5932412
GENERAL INFORMATION:
APPLICANT: DILLNER, JOAKIM
APPLICANT: DILLNER, LENA
TITLE OF INVENTION: CHENG, HWEE-MING
TITLE OF INVENTION: SYNTHETIC PEPTIDES OF HUMAN
TITLE OF INVENTION: PAPILLOMAVIRUS 1, 5, 6, 8,
TITLE OF INVENTION: 11, 16, 18, 31, 33 AND 56,
TITLE OF INVENTION: USEFUL IN IMMUNOSSAY FOR
NUMBER OF INVENTION: DIAGNOSTIC PURPOSES
NUMBER OF SEQUENCES: 193
CORRESPONDENCE ADDRESS:
ADDRESSEE: MASON & ASSOCIATES, P.A.
STREET: 17757 U.S. HWY. 19 NORTH, SUITE 500
CITY: CLEARWATER
STATE: FLORIDA
COUNTRY: U.S.A.
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: Windows 3.0
SOFTWARE: Microsoft Word 6.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/934,915
FILING DATE: 22-SEP-1997
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/949,836
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: LOUISE A. Bouché
REGISTRATION NUMBER: 37,133
REFERENCE/DOCKET NUMBER: 1946.6
TELECOMMUNICATION INFORMATION:
TELEPHONE: 813-538-3800
TELEFAX: 813-538-3820
TELEX:
INFORMATION FOR SEQ ID NO: 66:
SEQUENCE CHARACTERISTICS:
LENGTH: 29 amino acids
TYPE: amino acid

TOPOLOGY: linear
MOLECULE TYPE: peptide
US-08-934-915-66

Query Match 100.0%; Score 44; DB 1; Length 29;
Best Local Similarity 100.0%; Pred. No. 0.066;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 QLFNTLSF 9
DB 12 QLFNTLSF 20

RESULT 2
US-09-485-885-16
Sequence 16, Application US/09485885
Patent No. 6342224
GENERAL INFORMATION:
APPLICANT: Bruck, Claudine
APPLICANT: Cabazon Silva, Teresa
APPLICANT: Delisse, Anne-Marie Eva Fernande
APPLICANT: Gerard, Catherine Marie Ghislaine
APPLICANT: Lombardo-Bencheikh, Angela
TITLE OF INVENTION: Vaccine
FILE REFERENCE: B45107
CURRENT APPLICATION NUMBER: US/09/485,885
CURRENT FILING DATE: 2000-02-18
PRIOR APPLICATION NUMBER: PCT/EP98/05285
PRIOR FILING DATE: 1998-08-17
PRIOR APPLICATION NUMBER: GB 9717953.5
PRIOR FILING DATE: 1997-08-22
NUMBER OF SEQ ID NOS: 23
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 16
LENGTH: 227
TYPE: PRT
ORGANISM: Homo sapien
US-09-485-885-16

Query Match 100.0%; Score 44; DB 2; Length 227;
Best Local Similarity 100.0%; Pred. No. 0.56;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 QLFNTLSF 9
DB 201 QLFNTLSF 209

RESULT 3
US-09-485-885-19
Sequence 19, Application US/09485885
Patent No. 6342224
GENERAL INFORMATION:
APPLICANT: Bruck, Claudine
APPLICANT: Cabazon Silva, Teresa
APPLICANT: Delisse, Anne-Marie Eva Fernande
APPLICANT: Gerard, Catherine Marie Ghislaine
APPLICANT: Lombardo-Bencheikh, Angela
TITLE OF INVENTION: Vaccine
FILE REFERENCE: B45107
CURRENT APPLICATION NUMBER: US/09/485,885
CURRENT FILING DATE: 2000-02-18
PRIOR APPLICATION NUMBER: PCT/EP98/05285
PRIOR FILING DATE: 1998-08-17
PRIOR APPLICATION NUMBER: GB 9717953.5
PRIOR FILING DATE: 1997-08-22
NUMBER OF SEQ ID NOS: 23
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 19
LENGTH: 227
TYPE: PRT
ORGANISM: Homo sapien
US-09-485-885-19

Query Match 100.0%; Score 44; DB 2; Length 227;
Best Local Similarity 100.0%; Pred. No. 0.56;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 QLFNTLSF 9
DB 201 QLFNTLSF 209

RESULT 4

US-08-117-083-13
Sequence 13, Application US/08117083
Patent No. 5719054

GENERAL INFORMATION:

APPLICANT: Bouranelli, Michael E.
APPLICANT: Ingile, Stephen C.
APPLICANT: Munro, Alan J.
TITLE OF INVENTION: Recombinant Virus Vectors Encoding Human
TITLE OF INVENTION: Papilloma Virus Proteins
NUMBER OF SEQUENCES: 70
CORRESPONDENCE ADDRESS:
ADDRESSEE: Walter H. Dreger
STREET: 4 Embarcadero Center, Suite 3400
CITY: San Francisco
STATE: CA
COUNTRY: USA
ZIP: 94111

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/117,083
FILING DATE: 10-SEP-1993

CLASSIFICATION: 435

ATTORNEY/AGENT INFORMATION:

NAME: Dreger, Walter H.
REGISTRATION/DOCKET NUMBER: 24,190
REFERENCE/DOCKET NUMBER: A-58783
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415-781-1989
TELEFAX: 415-398-3249
TELEX: 910 277299

INFORMATION FOR SEQ ID NO: 13:

SEQUENCE CHARACTERISTICS:

LENGTH: 272 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
FEATURE:

NAME/KEY: Protein

LOCATION: 1..272

OTHER INFORMATION: /note= "Xaa refers to stop codon in

US-08-117-083-13

Query Match 100.0%; Score 44; DB 1; Length 272;
Best Local Similarity 100.0%; Pred. No. 0.67;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 QLFNTLSF 9
DB 251 QLFNTLSF 259

RESULT 5

US-09-485-885-23
Sequence 23, Application US/09485885
Patent No. 6342224
GENERAL INFORMATION:

APPLICANT: Bruck, Claudine
APPLICANT: Cabezon Silva, Teresa
APPLICANT: Delisse, Anne-Marie Eva Bernande
APPLICANT: Gerard, Catherine Marie Ghislaine
APPLICANT: Lombardo-Bencheikh, Angela
TITLE OF INVENTION: Vaccine
FILE REFERENCE: B45107
CURRENT APPLICATION NUMBER: US/09/485,885
CURRENT FILING DATE: 2000-02-18
PRIOR APPLICATION NUMBER: PCT/EP98/05285
PRIOR FILING DATE: 1998-08-17
PRIOR APPLICATION NUMBER: GB 9717953.5
PRIOR FILING DATE: 1997-08-22
NUMBER OF SEQ ID NOS: 23
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 23
LENGTH: 383
TYPE: PRT
ORGANISM: Homo sapien
US-09-485-885-23

Query Match 100.0%; Score 44; DB 2; Length 383;
Best Local Similarity 100.0%; Pred. No. 0.96;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 QLFNTLSF 9
DB 357 QLFNTLSF 365

RESULT 6

US-08-934-915-60
Sequence 60, Application US/08934915

Patent No. 5932412

GENERAL INFORMATION:

APPLICANT: DILLNER, JOAKIM

APPLICANT: CHENG, HWE-MING

TITLE OF INVENTION: SYNTHETIC PEPTIDES OF HUMAN

TITLE OF INVENTION: PAPILLOMAVIRUS 1, 5, 6, 8,

TITLE OF INVENTION: 11, 16, 18, 31, 33 AND 56,

TITLE OF INVENTION: USEFUL IN IMMUNOSSAY FOR

TITLE OF INVENTION: DIAGNOSTIC PURPOSES

NUMBER OF SEQUENCES: 193

CORRESPONDENCE ADDRESS:

ADDRESSEE: MASON & ASSOCIATES, P.A.

STREET: 17757 U.S. HWY. 19 NORTH, SUITE 500

CITY: CLEARWATER

STATE: FLORIDA

COUNTRY: U.S.A.

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: Windows 3.0

SOFTWARE: Microsoft Word 6.0

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/934,915

FILING DATE: 22-SEP-1997

CLASSIFICATION: 435

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 07/949,836

FILING DATE:

ATTORNEY/AGENT INFORMATION:

NAME: LOUISE A. FOUTCH

REGISTRATION NUMBER: 37,133

REFERENCE/DOCKET NUMBER: 1946.6

TELECOMMUNICATION INFORMATION:

TELEPHONE: 813-538-3800

TELEFAX: 813-538-3820

TELEX:

INFORMATION FOR SEQ ID NO: 60:

SEQUENCE CHARACTERISTICS:

LENGTH: 30 amino acids

TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-08-934-915-60

Query Match 77.3%; Score 34; DB 1; Length 30;
Best Local Similarity 100.0%; Pred. No. 5.8;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 QLPNTLS 7
|||
Db 24 QLPNTLS 30

RESULT 7
US-09-540-236-2380
Sequence 2380, Application US/09540236
Patent No. 6673910
GENERAL INFORMATION:
APPLICANT: Gary L. Bretton et al.
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO MORAXELLA CATAR
FILE REFERENCE: 2709.2005-001
CURRENT APPLICATION NUMBER: US/09/540.236
CURRENT FILING DATE: 2000-04-04
NUMBER OF SEQ ID NOS: 3840
SEQ ID NO 2380
LENGTH: 281
TYPE: PRT
ORGANISM: M.catarrhalis
US-09-540-236-2380

Query Match 77.3%; Score 34; DB 2; Length 281;
Best Local Similarity 66.7%; Pred. No. 59;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 QLPNTLS 9
|||
Db 115 QLPNTLS 123

RESULT 8
US-09-270-767-46066
Sequence 46066, Application US/09270767
Patent No. 6703493
GENERAL INFORMATION:
APPLICANT: Homburger et al.
TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
FILE REFERENCE: File Reference: 7326-094
CURRENT APPLICATION NUMBER: US/09/270.767
CURRENT FILING DATE: 1999-03-17
NUMBER OF SEQ ID NOS: 62517
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 46066
LENGTH: 333
TYPE: PRT
ORGANISM: Drosophila melanogaster
OTHER INFORMATION: Xaa means any amino acid
US-09-270-767-46066

Query Match 77.3%; Score 34; DB 2; Length 333;
Best Local Similarity 75.0%; Pred. No. 71;
Matches 6; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 1 QLPNTLS 8
|||
Db 136 QLPNTLS 143

RESULT 9
US-10-151-832-6
Sequence 6, Application US/10151832

Patent No. 6831206
GENERAL INFORMATION:
APPLICANT: Allen, Stephen M.
APPLICANT: Falco, Carl S.
APPLICANT: Tarczyński, Mitchell
TITLE OF INVENTION: Serine O-Acetyltransferase
FILE REFERENCE: B81514
CURRENT APPLICATION NUMBER: US/10/151.832
CURRENT FILING DATE: 2002-05-21
PRIOR APPLICATION NUMBER: 60/292,411
PRIOR FILING DATE: 2001-05-21
NUMBER OF SEQ ID NOS: 9
SOFTWARE: Microsoft Office 97
SEQ ID NO 6
LENGTH: 289
TYPE: PRT
ORGANISM: Allium cepa
US-10-151-832-6

Query Match 75.0%; Score 33; DB 2; Length 289;
Best Local Similarity 100.0%; Pred. No. 95;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 LPLNTLS 8
|||
Db 80 LPLNTLS 86

RESULT 10
US-09-603-208A-42
Sequence 42, Application US/09603208A
Patent No. 6822084
GENERAL INFORMATION:
APPLICANT: Pompejus, Markus
APPLICANT: Krieger, Burkhard
APPLICANT: Schröder, Hartwig
APPLICANT: Zelder, Oskar
APPLICANT: Haberhauer, Gregor
APPLICANT: Lee, Heung-Shick
APPLICANT: Kim, Hyung-Uoon
TITLE OF INVENTION: CORYNEBACTERIUM GLUTAMICUM GENES ENCODING STRESS,
FILE REFERENCE: BGI-124CP
CURRENT APPLICATION NUMBER: US/09/603.208A
CURRENT FILING DATE: 2000-06-23
PRIOR APPLICATION NUMBER: 60/141031
PRIOR FILING DATE: 1999-06-25
PRIOR APPLICATION NUMBER: 60/142692
PRIOR FILING DATE: 1999-07-01
PRIOR APPLICATION NUMBER: 60/151214
PRIOR FILING DATE: 1999-08-27
PRIOR APPLICATION NUMBER: DE 19930429.7
PRIOR FILING DATE: 1999-07-01
PRIOR APPLICATION NUMBER: DE 19931413.6
PRIOR FILING DATE: 1999-07-08
PRIOR APPLICATION NUMBER: DE 19931457.8
PRIOR FILING DATE: 1999-07-08
PRIOR APPLICATION NUMBER: DE 19931541.8
PRIOR FILING DATE: 1999-07-08
PRIOR APPLICATION NUMBER: DE 19932209.0
PRIOR FILING DATE: 1999-07-09
PRIOR APPLICATION NUMBER: DE 19932230.9
PRIOR FILING DATE: 1999-07-09
PRIOR APPLICATION NUMBER: DE 19932914.1
PRIOR FILING DATE: 1999-07-14
PRIOR APPLICATION NUMBER: DE 19940764.9
PRIOR FILING DATE: 1999-08-27
PRIOR APPLICATION NUMBER: DE 19941382.7
PRIOR FILING DATE: 1999-08-31
NUMBER OF SEQ ID NOS: 306
SEQ ID NO 42
LENGTH: 449
TYPE: PRT

ORGANISM: Corynebacterium glutamicum
US-09-603-208A-42

Query Match 75.0%; Score 33; DB 2; Length 449;
Best Local Similarity 87.5%; Pred. No. 1.5e+02;
Matches 7; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 QPLNTLSF 8
Db 354 QPLNTLS 361

RESULT 11
US-09-107-532A-3923

Sequence 3923, Application US/09107532A
Patent No. 6583275

GENERAL INFORMATION:

APPLICANT: Lynn A Doucette-Stamm and David Bush

TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO
ENTEROCOCCUS FAECIUM FOR DIAGNOSTICS AND THERAPEUTICS

NUMBER OF SEQUENCES: 7310

CORRESPONDENCE ADDRESS:

ADDRESSER: GENOME THERAPEUTICS CORPORATION

STREET: 100 Beaver Street

CITY: Waltham

STATE: Massachusetts

COUNTRY: USA

ZIP: 02354

COMPUTER READABLE FORM:

MEDIUM TYPE: CD-ROM ISO9660

COMPUTER: PC

OPERATING SYSTEM: <Unknown>

SOFTWARE: ASCII

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/107,532A

FILING DATE: 30-Jun-1998

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 60/085,598

FILING DATE: 14 May 1998

APPLICATION NUMBER: 60/051571

FILING DATE: July 2, 1997

ATTORNEY/AGENT INFORMATION:

NAME: Ariniello, Pamela Deneke

REGISTRATION NUMBER: 40,489

REFERENCE/DOCKET NUMBER: GTC-012

TELECOMMUNICATION INFORMATION:

TELEPHONE: (781)893-5007

TELEFAX: (781)893-8277

INFORMATION FOR SEQ ID NO: 3923:

SEQUENCE CHARACTERISTICS:

LENGTH: 123 amino acids

TYPE: amino acid

TOPOLOGY: linear

MOLECULE TYPE: protein

HYPOTHETICAL: YES

ORIGINAL SOURCE:

ORGANISM: Enterococcus faecium

FEATURE:

NAME/KEY: misc. feature

LOCATION: (B) LOCATION 1...123

SEQUENCE DESCRIPTION: SEQ ID NO: 3923:

US-09-107-532A-3923

Query Match 72.7%; Score 32; DB 2; Length 123;
Best Local Similarity 66.7%; Pred. No. 61;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Qy 1 QPLNTLSF 9
Db 97 QPLNTLSDF 105

RESULT 12

US-09-919-497-71

Sequence 71, Application US/09919497

Patent No. 6773883

GENERAL INFORMATION:

APPLICANT: Mutter, George L.

TITLE OF INVENTION: PROGNOSTIC CLASSIFICATION OF ENDOMETRIAL CANCER

FILE REFERENCE: B0801/7225

CURRENT APPLICATION NUMBER: US/09/919,497

CURRENT FILING DATE: 2001-07-31

PRIOR APPLICATION NUMBER: US 60/221,735

PRIOR FILING DATE: 2000-07-31

NUMBER OF SEQ ID NOS: 100

SOFTWARE: PatentIn version 3.0

SEQ ID NO 71

LENGTH: 292

TYPE: PRT

ORGANISM: Homo sapiens

US-09-919-497-71

Query Match 72.7%; Score 32; DB 2; Length 292;
Best Local Similarity 87.5%; Pred. No. 1.5e+02;
Matches 7; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 2 LPLNTLSF 9
Db 280 LPLNTLSF 287

RESULT 13
US-09-949-016-6771

Sequence 6771, Application US/09949016

Patent No. 6812319

GENERAL INFORMATION:

APPLICANT: VENTER, J. Craig et al.

TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF

FILE REFERENCE: CLO01307

CURRENT APPLICATION NUMBER: US/09/949,016

CURRENT FILING DATE: 2000-04-14

PRIOR APPLICATION NUMBER: 60/241,755

PRIOR FILING DATE: 2000-10-20

PRIOR APPLICATION NUMBER: 60/237,768

PRIOR FILING DATE: 2000-10-03

PRIOR APPLICATION NUMBER: 60/231,498

PRIOR FILING DATE: 2000-09-08

NUMBER OF SEQ ID NOS: 207012

SOFTWARE: FastSeq for Windows Version 4.0

SEQ ID NO 6771

LENGTH: 292

TYPE: PRT

ORGANISM: Human

US-09-949-016-6771

Query Match 72.7%; Score 32; DB 2; Length 292;
Best Local Similarity 87.5%; Pred. No. 1.5e+02;
Matches 7; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 2 LPLNTLSF 9
Db 280 LPLNTLSF 287

RESULT 14
US-09-949-016-7132

Sequence 7132, Application US/09949016

Patent No. 6812319

GENERAL INFORMATION:

APPLICANT: VENTER, J. Craig et al.

TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF

FILE REFERENCE: CLO01307

CURRENT APPLICATION NUMBER: US/09/949,016

CURRENT FILING DATE: 2000-04-14

PRIOR APPLICATION NUMBER: 60/241,755
PRIOR FILING DATE: 2000-10-20
PRIOR APPLICATION NUMBER: 60/237,768
PRIOR FILING DATE: 2000-10-03
PRIOR APPLICATION NUMBER: 60/231,498
PRIOR FILING DATE: 2000-09-08
NUMBER OF SEQ ID NOS: 207012
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO: 7132
LENGTH: 324
TYPE: PRT
ORGANISM: Human
US-09-949-016-7132

Query Match 72.7%; Score 32; DB 2; Length 324;
Best Local Similarity 87.5%; Pred. No. 1.7e+02;
Matches 7; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 2 LFNLTSLF 9
Db 312 LFNLTSLF 319

RESULT 15
US-09-107-532A-6500
Sequence 6500, Application US/09107532A
Patent No. 6583375
GENERAL INFORMATION:
APPLICANT: Lynn A Doucette-Stamm and David Bush
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO ENTEROCOCCUS FAECIUM FOR DIAGNOSTICS AND THERAPEUTICS
NUMBER OF SEQUENCES: 7310
CORRESPONDENCE ADDRESS:
ADDRESSEE: GENOME THERAPEUTICS CORPORATION
STREET: 100 Beaver Street
CITY: Waltham
STATE: Massachusetts
COUNTRY: USA
ZIP: 02154
COMPUTER READABLE FORM:
MEDIUM TYPE: CD-ROM ISO9660
COMPUTER: PC
OPERATING SYSTEM: <Unknown>
SOFTWARE: ASCII
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/107,532A
FILING DATE: 30-Jun-1998
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 60/085,598
FILING DATE: 14 May 1998
APPLICATION NUMBER: 60/051571
FILING DATE: July 2, 1997
ATTORNEY/AGENT INFORMATION:
NAME: Arinello, Pamela Deneke
REGISTRATION NUMBER: 40,489
REFERENCE/DOCKET NUMBER: GTC-012
TELECOMMUNICATION INFORMATION:
TELEPHONE: (781)893-5007
TELEFAX: (781)893-8277
INFORMATION FOR SEQ ID NO: 6500:
SEQUENCE CHARACTERISTICS:
LENGTH: 378 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
HYPOTHEICAL: YES
ORIGINAL SOURCE:
ORGANISM: Enterococcus faecium
FEATURE:
NAME/KEY: misc_feature
LOCATION: (B) LOCATION 1...378
SEQUENCE DESCRIPTION: SEQ ID NO: 6500:
US-09-107-532A-6500

Query Match 72.7%; Score 32; DB 2; Length 378;
Best Local Similarity 75.0%; Pred. No. 2e+02;
Matches 6; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 2 LFNLTSLF 9
Db 275 LFNLTSLF 282

RESULT 16
US-09-041-991A-8
Sequence 8, Application US/09041991A
Patent No. 6107278
GENERAL INFORMATION:
APPLICANT: Schnepf, H. Ernest
APPLICANT: Narva, Kenneth E.
APPLICANT: Muller-Cohn, Judy
TITLE OF INVENTION: Toxins Active Against Peets
NUMBER OF SEQUENCES: 10
CORRESPONDENCE ADDRESS:
ADDRESSEE: Saliwanchik, Lloyd & Saliwanchik
STREET: 2421 N.W. 41st Street, Suite A-1
CITY: Gainesville
STATE: Florida
COUNTRY: USA
ZIP: 32606
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/041,991A
FILING DATE: 13-MAR-1998
CLASSIFICATION: 514
ATTORNEY/AGENT INFORMATION:
NAME: Sanders, Jay M.
REGISTRATION NUMBER: 39,355
REFERENCE/DOCKET NUMBER: MA-709
TELECOMMUNICATION INFORMATION:
TELEPHONE: (352) 375-8100
TELEFAX: (352) 372-5800
INFORMATION FOR SEQ ID NO: 8:
SEQUENCE CHARACTERISTICS:
LENGTH: 633 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-09-041-991A-8

Query Match 72.7%; Score 32; DB 2; Length 633;
Best Local Similarity 87.5%; Pred. No. 3.3e+02;
Matches 7; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 QLFNLTSLF 8
Db 155 QLFNLTSLF 162

RESULT 17
US-09-041-991A-10
Sequence 10, Application US/09041991A
Patent No. 6107278
GENERAL INFORMATION:
APPLICANT: Schnepf, H. Ernest
APPLICANT: Narva, Kenneth E.
APPLICANT: Muller-Cohn, Judy
TITLE OF INVENTION: Toxins Active Against Peets
NUMBER OF SEQUENCES: 10
CORRESPONDENCE ADDRESS:
ADDRESSEE: Saliwanchik, Lloyd & Saliwanchik

STREET: 2421 N.W. 41st Street, Suite A-1
CITY: Gainesville
STATE: Florida
COUNTRY: USA
ZIP: 32606
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/041,991A
FILING DATE: 13-MAR-1998
CLASSIFICATION: 514
ATTORNEY/AGENT INFORMATION:
NAME: Sanders, Jay M.
REGISTRATION NUMBER: 39,355
REFERENCE/DOCKET NUMBER: MA-709
TELECOMMUNICATION INFORMATION:
TELEPHONE: (352) 375-8100
TELEFAX: (352) 372-5800
INFORMATION FOR SEQ ID NO: 10:
SEQUENCE CHARACTERISTICS:
LENGTH: 633 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-09-041-991A-10

Query Match 72.7%; Score 32; DB 2; Length 633;
Best Local Similarity 87.5%; Pred. No. 3.3e+02;
Matches 7; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 QLFNTLS 8
DB 155 QLFNRLS 162

RESULT 18
US-09-608-533A-8
Sequence 8, Application US/09608533A
Patent No. 6534644
GENERAL INFORMATION:
APPLICANT: Schnepf, H. Ernest
Narva, Kenneth E.
Muller-Cohn, Judy
TITLE OF INVENTION: Toxins Active Against Pests
NUMBER OF SEQUENCES: 10
CORRESPONDENCE ADDRESS:
ADDRESSER: Saliwanchik, Lloyd & Saliwanchik
STREET: 2421 N.W. 41st Street, Suite A-1
CITY: Gainesville
STATE: Florida
COUNTRY: USA
ZIP: 32606
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/608,533A
FILING DATE: 30-Jun-2000
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 09/041,991
FILING DATE: 13-MARCH-1998
ATTORNEY/AGENT INFORMATION:
NAME: Sanders, Jay M.
REGISTRATION NUMBER: 39,355
REFERENCE/DOCKET NUMBER: MA-709D1
TELECOMMUNICATION INFORMATION:

TELEPHONE: (352) 375-8100
TELEFAX: (352) 372-5800
INFORMATION FOR SEQ ID NO: 8:
SEQUENCE CHARACTERISTICS:
LENGTH: 633 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
SEQUENCE DESCRIPTION: SEQ ID NO: 8:
US-09-608-533A-8

Query Match 72.7%; Score 32; DB 2; Length 633;
Best Local Similarity 87.5%; Pred. No. 3.3e+02;
Matches 7; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 QLFNTLS 8
DB 155 QLFNRLS 162

RESULT 19
US-09-608-533A-10
Sequence 10, Application US/09608533A
Patent No. 6534644
GENERAL INFORMATION:
APPLICANT: Schnepf, H. Ernest
Narva, Kenneth E.
Muller-Cohn, Judy
TITLE OF INVENTION: Toxins Active Against Pests
NUMBER OF SEQUENCES: 10
CORRESPONDENCE ADDRESS:
ADDRESSER: Saliwanchik, Lloyd & Saliwanchik
STREET: 2421 N.W. 41st Street, Suite A-1
CITY: Gainesville
STATE: Florida
COUNTRY: USA
ZIP: 32606
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/608,533A
FILING DATE: 30-Jun-2000
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 09/041,991
FILING DATE: 13-MARCH-1998
ATTORNEY/AGENT INFORMATION:
NAME: Sanders, Jay M.
REGISTRATION NUMBER: 39,355
REFERENCE/DOCKET NUMBER: MA-709D1
TELECOMMUNICATION INFORMATION:
TELEPHONE: (352) 375-8100
TELEFAX: (352) 372-5800
INFORMATION FOR SEQ ID NO: 10:
SEQUENCE CHARACTERISTICS:
LENGTH: 633 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
SEQUENCE DESCRIPTION: SEQ ID NO: 10:
US-09-608-533A-10

Query Match 72.7%; Score 32; DB 2; Length 633;
Best Local Similarity 87.5%; Pred. No. 3.3e+02;
Matches 7; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 QLFNTLS 8
DB 155 QLFNRLS 162

```
Db          155 QLFNRLS 162

RESULT 20
US-09-248-796A-22497
; Sequence 22497, Application US/09248796A
; Patent No. 6747137
; GENERAL INFORMATION:
; APPLICANT: Keith Weinlock et al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDA ALBICAN
; FILE REFERENCE: 107196.132
; CURRENT APPLICATION NUMBER: US/09/248,796A
; CURRENT FILING DATE: 1999-02-12
; PRIOR APPLICATION NUMBER: US 60/074,725
; PRIOR FILING DATE: 1998-02-13
; PRIOR APPLICATION NUMBER: US 60/096,409
; PRIOR FILING DATE: 1998-08-13
; NUMBER OF SEQ ID NOS: 28208
; SEQ ID NO 22497
; LENGTH: 66
; TYPE: PRT
; ORGANISM: Candida albicans
US-09-248-796A-22497

Query Match          70.5% Score 31; DB 2; Length 66;
Best Local Similarity 87.5%; Pred. No. 50;
Matches 7; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY          2 LFLNLTSLF 9
           ||| |||
Db          4 LFLYTLTSLF 11

RESULT 21
US-09-270-767-45094
; Sequence 45094, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
; APPLICANT: Homburger et al.
; TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
; FILE REFERENCE: File Reference: 7326-094
; CURRENT APPLICATION NUMBER: US/09/270,767
; CURRENT FILING DATE: 1999-03-17
; NUMBER OF SEQ ID NOS: 62517
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 45094
; LENGTH: 127
; TYPE: PRT
; ORGANISM: Drosophila melanogaster
; OTHER INFORMATION: Xaa means any amino acid
US-09-270-767-45094

Query Match          70.5% Score 31; DB 2; Length 127;
Best Local Similarity 75.0%; Pred. No. 98;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY          2 LFLNLTSLF 9
           ||| |||
Db          61 LFLNLTSLF 68

RESULT 22
US-09-902-540-16422
; Sequence 16422, Application US/09902540
; Patent No. 6833447
; GENERAL INFORMATION:
; APPLICANT: Goldman, Barry S.
; APPLICANT: Hinkle, Gregory J.
; APPLICANT: Slater, Steven C.
; APPLICANT: Wiegand, Roger C.
; TITLE OF INVENTION: Myxococcus xanthus Genome Sequences and Uses Thereof
; FILE REFERENCE: 38-10(15849)B
; CURRENT APPLICATION NUMBER: US/09/902,540
; CURRENT FILING DATE: 2001-07-10
; PRIOR APPLICATION NUMBER: 60/217,883
; PRIOR FILING DATE: 2000-07-10
; NUMBER OF SEQ ID NOS: 16825
; SEQ ID NO 16422
; LENGTH: 263
; TYPE: PRT
; ORGANISM: Myxococcus xanthus
US-09-902-540-16422

Query Match          70.5% Score 31; DB 2; Length 263;
Best Local Similarity 75.0%; Pred. No. 2.1e+02;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY          2 LFLNLTSLF 9
           ||| |||
Db          32 LFLNLTSLF 39

RESULT 23
US-09-710-279-2980
; Sequence 2980, Application US/09710279
; Patent No. 6703492
; GENERAL INFORMATION:
; APPLICANT: KIMMERLY, WILLIAM JOHN
; TITLE OF INVENTION: STAPHYLOCOCCUS EPIDERMIDIS NUCLEIC ACIDS AND PROTEINS
; FILE REFERENCE: PU3480US
; CURRENT APPLICATION NUMBER: US/09/710,279
; CURRENT FILING DATE: 2000-11-09
; PRIOR APPLICATION NUMBER: 60/164,258
; PRIOR FILING DATE: 1999-11-09
; NUMBER OF SEQ ID NOS: 4472
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 2980
; LENGTH: 302
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: synthetic
US-09-710-279-2980

Query Match          70.5% Score 31; DB 2; Length 302;
Best Local Similarity 75.0%; Pred. No. 2.4e+02;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY          2 LFLNLTSLF 9
           ||| |||
Db          293 LFLNLTSLF 300

RESULT 24
US-09-134-001C-3383
; Sequence 3383, Application US/09134001C
; Patent No. 6380370
; GENERAL INFORMATION:
; APPLICANT: Lynn Doucette-Stamm et al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO STAPHYLOCOCCUS
; FILE REFERENCE: GTC-007
; CURRENT APPLICATION NUMBER: US/09/134,001C
; CURRENT FILING DATE: 1998-08-13
; PRIOR APPLICATION NUMBER: US 60/064,964
; PRIOR FILING DATE: 1997-11-08
; PRIOR APPLICATION NUMBER: US 60/055,779
; PRIOR FILING DATE: 1997-08-14
; NUMBER OF SEQ ID NOS: 5674
; SEQ ID NO 3383
; LENGTH: 350
; TYPE: PRT
; ORGANISM: Staphylococcus epidermidis
```

US-09-134-001C-3383

Query Match 70.5%; Score 31; DB 2; Length 350;
Best Local Similarity 75.0%; Pred. No. 2.8e+02;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 2 LPLNTLSF 9
DB 341 LPLNTLSF 348

RESULT 25

US-08-985-908-24
Sequence 24, Application US/08985908
Patent No. 6004773GENERAL INFORMATION:
APPLICANT: MASAYUKI ARAKI, MASAKAZU SUGIMOTO, YASUHIKO YOSHIMURA, AND TSUYOSHI NA

TITLE OF INVENTION: METHOD FOR PRODUCING L-LYSINE

NUMBER OF SEQUENCES: 31

CORRESPONDENCE ADDRESS:
ADDRESSEE: OBLON, SPIVAK, MCCLELLAND, MATER & NEUSTADT, P.C.STREET: 1755 S. JEFFERSON DAVIS HIGHWAY, FOURTH FLOOR
CITY: ARLINGTON
COUNTRY: USA

ZIP: 22202

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: PatentIn Release #1.0, Version #1.30

CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/985,908

FILING DATE: 05-DEC-1997

CLASSIFICATION: 435

PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 8-325659

FILING DATE: 05-DEC-1996

ATTORNEY/AGENT INFORMATION:
NAME: NORMAN F. OBLON

REGISTRATION NUMBER: 24,618

TELECOMMUNICATION INFORMATION:
TELEPHONE: 703-413-3000

TELEFAX: 703-413-2220

INFORMATION FOR SEQ ID NO: 24:

SEQUENCE CHARACTERISTICS:
LENGTH: 396 amino acids

TYPE: amino acid

TOPOLOGY: linear

MOLECULE TYPE: protein

US-08-985-908-24

Query Match 70.5%; Score 31; DB 2; Length 396;
Best Local Similarity 85.7%; Pred. No. 3.2e+02;

Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 QLFNTL 7
DB 323 QLFNTL 329

RESULT 26

US-08-619-812-6

Sequence 6, Application US/08619812
Patent No. 6100066GENERAL INFORMATION:
APPLICANT: POTTER, ANDREW A.

APPLICANT: THEISEN, MICHAEL

APPLICANT: HARLAND, RICHARD J.

APPLICANT: RIGBY, CLEMENT R.

TITLE OF INVENTION: VACCINES FOR HAEMOPHILUS SOMNUS

NUMBER OF SEQUENCES: 10

CORRESPONDENCE ADDRESS:
ADDRESSEE: REED & ROBINS

STREET: 635 BRYANT STREET

CITY: PALO ALTO

STATE: CALIFORNIA

COUNTRY: UNITED STATES OF AMERICA

ZIP: 94301

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: PatentIn Release #1.0, Version #1.25

CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/619,812

FILING DATE: 15-MAR-1996

CLASSIFICATION: 435

PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/038,719

FILING DATE: 29-MAR-1993

ATTORNEY/AGENT INFORMATION:
NAME: ROBINS, ROBERTA L.

REGISTRATION NUMBER: 33,208

REFERENCE/DOCKET NUMBER: 9000-0019.20

TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 617-8999

TELEFAX: (415) 327-3231

INFORMATION FOR SEQ ID NO: 6:

SEQUENCE CHARACTERISTICS:
LENGTH: 581 amino acids

TYPE: amino acid

TOPOLOGY: linear

MOLECULE TYPE: protein

US-08-619-812-6

Query Match 70.5%; Score 31; DB 2; Length 581;
Best Local Similarity 66.7%; Pred. No. 4.8e+02;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 QLFNTLSF 9
DB 473 RLFNTLSF 481

RESULT 27

US-09-252-991A-22396

Sequence 22396, Application US/09252991A
Patent No. 6551795GENERAL INFORMATION:
APPLICANT: Marc J. Rubenfield et al.

TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS

FILE REFERENCE: 107196.136

CURRENT APPLICATION NUMBER: US/09/252,991A

PRIOR FILING DATE: 1999-02-18

PRIOR APPLICATION NUMBER: US 60/074,788

PRIOR FILING DATE: 1998-07-27

PRIOR APPLICATION NUMBER: US 60/094,190

NUMBER OF SEQ ID NOS: 33142

SEQ ID NO 22396

LENGTH: 660

TYPE: PRT

ORGANISM: Pseudomonas aeruginosa

US-09-252-991A-22396

Query Match 70.5%; Score 31; DB 2; Length 660;
Best Local Similarity 85.7%; Pred. No. 5.4e+02;
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 3 FLNTLSF 9
DB 142 FLNTLSF 148

RESULT 28

```
US-09-543-681A-5976
; Sequence 5976, Application US/09543681A
; Patent No. 6605709
; GENERAL INFORMATION:
; APPLICANT: GARY BRETON
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PROTEUS MIRABILIS
; FILE REFERENCE: 2709.1002-001
; CURRENT APPLICATION NUMBER: US/09/543,681A
; CURRENT FILING DATE: 2000-04-05
; PRIOR APPLICATION NUMBER: US 60/128,706
; PRIOR FILING DATE: 1999-04-09
; NUMBER OF SEQ ID NOS: 8344
; SEQ ID NO 5976
; LENGTH: 672
; TYPE: PRT
; ORGANISM: Proteus mirabilis
US-09-543-681A-5976

Query Match
Best Local Similarity 70.5%; Score 31; DB 2; Length 672;
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 3 FLNLSF 9
Db 152 FLNLSF 158

RESULT 29
US-09-491-356C-23
; Sequence 23, Application US/09491356C
; Patent No. 6566061
; GENERAL INFORMATION:
; APPLICANT: Philibert, Robert A.
; APPLICANT: Gimms, Edward I.
; TITLE OF INVENTION: IDENTIFICATION OF POLYMORPHISMS IN THE PCTG4 REGION OF XQ13
; FILE REFERENCE: 9465.60511
; CURRENT APPLICATION NUMBER: US/09/491,356C
; CURRENT FILING DATE: 2000-01-26
; PRIOR APPLICATION NUMBER: PCT/US99/09365
; PRIOR FILING DATE: 1999-04-29
; PRIOR APPLICATION NUMBER: 60/083,465
; PRIOR FILING DATE: 1998-04-29
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 23
; LENGTH: 823
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-491-356C-23

Query Match
Best Local Similarity 70.5%; Score 31; DB 2; Length 823;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 2 LFLNLSF 9
Db 699 LFLNLSF 706

RESULT 30
US-09-491-356C-22
; Sequence 22, Application US/09491356C
; Patent No. 6566061
; GENERAL INFORMATION:
; APPLICANT: Philibert, Robert A.
; APPLICANT: Gimms, Edward I.
; APPLICANT: Delisi, Lynn
; TITLE OF INVENTION: IDENTIFICATION OF POLYMORPHISMS IN THE PCTG4 REGION OF XQ13
; FILE REFERENCE: 9465.60511
; CURRENT APPLICATION NUMBER: US/09/491,356C
; CURRENT FILING DATE: 2000-01-26
```

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; PRIOR APPLICATION NUMBER: PCT/US99/09365
; PRIOR FILING DATE: 1999-04-29
; PRIOR APPLICATION NUMBER: 60/083,465
; PRIOR FILING DATE: 1998-04-29
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 22
; LENGTH: 848
; TYPE: PRT
; ORGANISM: Rattus norvegicus
US-09-491-356C-22

Query Match
Best Local Similarity 70.5%; Score 31; DB 2; Length 848;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 2 LFLNLSF 9
Db 719 LFLNLSF 726

RESULT 31
US-09-949-016-8386
; Sequence 8386, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 8386
; LENGTH: 933
; TYPE: PRT
; ORGANISM: Human
US-09-949-016-8386

Query Match
Best Local Similarity 70.5%; Score 31; DB 2; Length 933;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 2 LFLNLSF 9
Db 804 LFLNLSF 811

RESULT 32
US-08-887-518-2
; Sequence 2, Application US/08887518
; Patent No. 5843721
; GENERAL INFORMATION:
; APPLICANT: Roche, Mike
; APPLICANT: Wu, Lin
; TITLE OF INVENTION: NIK Proteins, Nucleic Acids and Methods
; NUMBER OF SEQUENCES: 4
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: SCIENCE & TECHNOLOGY LAW GROUP
; STREET: 268 BUSH STREET, SUITE 3200
; CITY: SAN FRANCISCO
; STATE: CALIFORNIA
; COUNTRY: USA
; ZIP: 94104
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
```

COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/887,518
FILING DATE:
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: OSMAN, RICHARD A
REGISTRATION NUMBER: 36,627
REFERENCE/DOCKET NUMBER: T97-008
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 343-4341
TELEFAX: (415) 343-4342
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 947 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-08-887-518-2

Query Match
Best Local Similarity 70.5%; Score 31; DB 1; Length 947;
Pred. No. 7.9e+02;
Matches 6; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 1 QLFINTLS 8
:||||:|
Db 776 ELFLNLS 783

RESULT 33
US-09-023-321-2
Sequence 2, Application US/0902321
Patent No. 5844073
GENERAL INFORMATION:
APPLICANT: Rothe, Mike
TITLE OF INVENTION: NIK Proteins, Nucleic Acids and Methods
NUMBER OF SEQUENCES: 4
CORRESPONDENCE ADDRESS:
ADDRESSEE: SCIENCE & TECHNOLOGY LAW GROUP
STREET: 268 BUSH STREET, SUITE 3200
CITY: SAN FRANCISCO
STATE: CALIFORNIA
COUNTRY: USA
ZIP: 94104
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/023,321
FILING DATE:
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/887,518
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: OSMAN, RICHARD A
REGISTRATION NUMBER: 36,627
REFERENCE/DOCKET NUMBER: T97-008
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 343-4341
TELEFAX: (415) 343-4342
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 947 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear

MOLECULE TYPE: peptide
US-09-023-321-2

Query Match
Best Local Similarity 70.5%; Score 31; DB 1; Length 947;
Pred. No. 7.9e+02;
Matches 6; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 1 QLFINTLS 8
:||||:|
Db 776 ELFLNLS 783

RESULT 34
US-09-032-475-2
Sequence 2, Application US/09032475
Patent No. 5854003
GENERAL INFORMATION:
APPLICANT: Rothe, Mike
TITLE OF INVENTION: NIK Proteins, Nucleic Acids and Methods
NUMBER OF SEQUENCES: 4
CORRESPONDENCE ADDRESS:
ADDRESSEE: SCIENCE & TECHNOLOGY LAW GROUP
STREET: 268 BUSH STREET, SUITE 3200
CITY: SAN FRANCISCO
STATE: CALIFORNIA
COUNTRY: USA
ZIP: 94104
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/032,475
FILING DATE:
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/887,518
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: OSMAN, RICHARD A
REGISTRATION NUMBER: 36,627
REFERENCE/DOCKET NUMBER: T97-008
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 343-4341
TELEFAX: (415) 343-4342
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 947 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-09-032-475-2

Query Match
Best Local Similarity 70.5%; Score 31; DB 1; Length 947;
Pred. No. 7.9e+02;
Matches 6; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 1 QLFINTLS 8
:||||:|
Db 776 ELFLNLS 783

RESULT 35
US-09-257-703-1
Sequence 1, Application US/09257703
Patent No. 6265538
GENERAL INFORMATION:
APPLICANT: Greene, Warner C.
APPLICANT: Lin, Xin
APPLICANT: Gelezinas, Romas

```

; TITLE OF INVENTION: A NOVEL INHIBITOR OF THE INFLAMMATORY RESPONSE INDUCED
; FILE REFERENCE: 30448.61USU1
; CURRENT APPLICATION NUMBER: US/09/257,703
; EARLIER FILING DATE: 1999-02-25
; EARLIER FILING DATE: 1998-02-27
; NUMBER OF SEQ ID NOS: 2
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1
; LENGTH: 947
; TYPE: PRT
; ORGANISM: NF-KAPPA B INDUCING KINASE (NIK)
US-09-257-703-1
```

```

Query Match          70.5%; Score 31; DB 2; Length 947;
Best Local Similarity 75.0%; Pred. No. 7.9e+02;
Matches 6; Conservative 2; Mismatches 0; Indels 0; Gaps 0;
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```
QY      1 QLFNTLS 8
Db      776 ELFLNLS 783
```

```

RESULT 36
US-09-871-889A-1
; Sequence 1, Application US/09871889A
; Patent No. 6645728
; GENERAL INFORMATION:
; APPLICANT: Greene, Warner C.
; APPLICANT: Lin, Xin
; APPLICANT: Gelesnias, Roman
; TITLE OF INVENTION: A NOVEL INHIBITOR OF THE INFLAMMATORY RESPONSE INDUCED BY TNF-ALF
; FILE REFERENCE: 30448.61USU1
; CURRENT APPLICATION NUMBER: US/09/871,889A
; CURRENT FILING DATE: 2001-06-01
; PRIOR APPLICATION NUMBER: 09/257,703
; PRIOR FILING DATE: 1999-02-25
; PRIOR APPLICATION NUMBER: 60/076,299
; PRIOR FILING DATE: 1998-02-27
; NUMBER OF SEQ ID NOS: 10
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 1
; LENGTH: 947
; TYPE: PRT
; ORGANISM: NF-KAPPA B INDUCING KINASE (NIK)
US-09-871-889A-1
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```

Query Match          70.5%; Score 31; DB 2; Length 947;
Best Local Similarity 75.0%; Pred. No. 7.9e+02;
Matches 6; Conservative 2; Mismatches 0; Indels 0; Gaps 0;
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```
QY      1 QLFNTLS 8
Db      776 ELFLNLS 783
```

```

RESULT 37
US-09-981-397A-18
; Sequence 18, Application US/09981397A
; Patent No. 6849409
; GENERAL INFORMATION:
; APPLICANT: Axima Pharmaceuticals AG
; APPLICANT: Schubart, Daniel
; APPLICANT: Habenberger, Peter
; APPLICANT: Stein-Gerlach, Matthias
; APPLICANT: Bevec, Dorian
; TITLE OF INVENTION: Cellular Kinases Involved in Cytomegalovirus Infection and their
; FILE REFERENCE: AXM-004.1 US
; CURRENT APPLICATION NUMBER: US/09/981,397A
; CURRENT FILING DATE: 2002-06-28
```

```

; PRIOR APPLICATION NUMBER: 60/240,750
; PRIOR FILING DATE: 2000-10-16
; NUMBER OF SEQ ID NOS: 22
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 18
; LENGTH: 947
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-981-397A-18
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```

Query Match          70.5%; Score 31; DB 2; Length 947;
Best Local Similarity 75.0%; Pred. No. 7.9e+02;
Matches 6; Conservative 2; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 QLFNTLS 8
Db      776 ELFLNLS 783
```

```

RESULT 38
US-09-949-016-8387
; Sequence 8387, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 8387
; LENGTH: 953
; TYPE: PRT
; ORGANISM: Human
US-09-949-016-8387
```

```

Query Match          70.5%; Score 31; DB 2; Length 953;
Best Local Similarity 75.0%; Pred. No. 8e+02;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
```

```
QY      2 LPLNTLSF 9
Db      824 LPLNVLAF 831
```

```

RESULT 39
US-09-328-352-7578
; Sequence 7578, Application US/09328352
; Patent No. 6562958
; GENERAL INFORMATION:
; APPLICANT: Gary L. Breton et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO ACINETOBACTER
; FILE REFERENCE: GTC99-03PA
; CURRENT APPLICATION NUMBER: US/09/328,352
; CURRENT FILING DATE: 1999-06-04
; NUMBER OF SEQ ID NOS: 8252
; SEQ ID NO 7578
; LENGTH: 95
; TYPE: PRT
; ORGANISM: Acinetobacter baumannii
US-09-328-352-7578
```

```

Query Match          68.2%; Score 30; DB 2; Length 95;
Best Local Similarity 62.5%; Pred. No. 1.1e+02;
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Matches 5; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

Qy 1 QPLNTLSF 8
Db 23 QVFNLTIN 30

RESULT 40

US-09-270-767-42027
Sequence 42027, Application US/09270767
Patent No. 6703491
GENERAL INFORMATION:
APPLICANT: Homburger et al.
TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
FILE REFERENCE: File Reference: 7326-094
CURRENT FILING DATE: 1999-03-17
NUMBER OF SEQ ID NOS: 62517
SOFTWARE: Patentia Ver. 2.0
SEQ ID NO 42027
LENGTH: 153
TYPE: PRT
ORGANISM: Drosophila melanogaster
FEATURE:
OTHER INFORMATION: Xaa means any amino acid
US-09-270-767-42027

Query Match 68.2%; Score 30; DB 2; Length 153;
Best Local Similarity 66.7%; Pred. No. 1.9e+02;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Qy 1 QPLNTLSF 9
Db 36 QVFNLSRF 44

RESULT 41

US-09-248-796A-24400
Sequence 24400, Application US/09248796A
Patent No. 6747137
GENERAL INFORMATION:
APPLICANT: Keith Weinstein et al
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDA ALBICAN
TITLE OF INVENTION: FOR DIAGNOSTICS AND THERAPEUTICS
FILE REFERENCE: 107196.132
CURRENT APPLICATION NUMBER: US/09/248,796A
CURRENT FILING DATE: 1999-02-12
PRIOR APPLICATION NUMBER: US 60/074,725
PRIOR FILING DATE: 1998-02-13
PRIOR APPLICATION NUMBER: US 60/096,409
PRIOR FILING DATE: 1998-08-13
NUMBER OF SEQ ID NOS: 28208
SEQ ID NO 24400
LENGTH: 177
TYPE: PRT
ORGANISM: Candida albicans
FEATURE:
NAME/KEY: UNSURE
LOCATION: (5)
OTHER INFORMATION: Identity of amino acid sequences at the above locations are unknown
US-09-248-796A-24400

Query Match 68.2%; Score 30; DB 2; Length 177;
Best Local Similarity 66.7%; Pred. No. 2.2e+02;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 1 QPLNTLSF 9
Db 27 RLFNLTNF 35

RESULT 42
US-09-107-532A-5511

Sequence 5511, Application US/09107532A
Patent No. 6583275

GENERAL INFORMATION:
APPLICANT: Lynn A Doucette-Stamm and David Bush
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO
ENTEROCOCCUS FAECIUM FOR DIAGNOSTICS AND THERAPEUTICS

NUMBER OF SEQUENCES: 7310

CORRESPONDENCE ADDRESS:

ADDRESSEE: GENOME THERAPEUTICS CORPORATION

STREET: 100 Beaver Street

CITY: Waltham

STATE: Massachusetts

COUNTRY: USA

ZIP: 02354

COMPUTER READABLE FORM:

MEDIUM TYPE: CD-ROM ISO9660

COMPUTER: PC

OPERATING SYSTEM: <Unknown>

SOFTWARE: ASCII

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/107,532A

FILING DATE: 30-Jun-1998

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 60/085,598

FILING DATE: 14 May 1998

APPLICATION NUMBER: 60/051571

FILING DATE: July 2, 1997

ATTORNEY/AGENT INFORMATION:

NAME: Arinello, Pamela Deneke

REGISTRATION NUMBER: 40,489

REFERENCE/DOCKET NUMBER: GTC-012

TELECOMMUNICATION INFORMATION:

TELEPHONE: (781) 893-5007

TELEFAX: (781) 893-8277

INFORMATION FOR SEQ ID NO: 5511:

SEQUENCE CHARACTERISTICS:

LENGTH: 183 amino acids

TYPE: amino acid

TOPOLOGY: linear

MOLECULE TYPE: protein

HYPOTHETICAL: YES

ORGANISM: Enterococcus faecium

FEATURE:

NAME/KEY: misc feature

LOCATION: (B) LOCATION 1...183

SEQUENCE DESCRIPTION: SEQ ID NO: 5511:

US-09-107-532A-5511

Query Match 68.2%; Score 30; DB 2; Length 183;
Best Local Similarity 44.4%; Pred. No. 2.2e+02;
Matches 4; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

Qy 1 QPLNTLSF 9
Db 10 RLFNLTAY 18

RESULT 43

US-09-543-681A-4936
Sequence 4936, Application US/09543681A
Patent No. 6605709
GENERAL INFORMATION:
APPLICANT: GARY BRETON
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PROTEUS MIRABILIS
TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS
FILE REFERENCE: 2709.1002-001
CURRENT APPLICATION NUMBER: US/09/543,681A
CURRENT FILING DATE: 2000-04-05
PRIOR APPLICATION NUMBER: US 60/128,706
PRIOR FILING DATE: 1999-04-09
NUMBER OF SEQ ID NOS: 8344
SEQ ID NO 4936

; LENGTH: 191
; TYPE: PRT
; ORGANISM: Proteus mirabilis
US-09-543-681A-4936

Query Match
Best Local Similarity 75.0%; Score 30; DB 2; Length 191;
Pred. No. 2.3e+02;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 QLFNTLS 8
Db 61 QLFNTLS 68

RESULT 44
US-09-543-681A-4894
; Sequence 4894, Application US/09543681A
; Patent No. 6605709
; GENERAL INFORMATION:
; APPLICANT: GARY BRETON
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PROTEUS MIRABILIS
; FILE REFERENCE: 2709.1002-001
; CURRENT APPLICATION NUMBER: US/09/543,681A
; CURRENT FILING DATE: 2000-04-05
; PRIOR APPLICATION NUMBER: US 60/128,706
; PRIOR FILING DATE: 1999-04-09
; NUMBER OF SEQ ID NOS: 8344
; SEQ ID NO 4894
; LENGTH: 224
; TYPE: PRT
; ORGANISM: Proteus mirabilis
US-09-543-681A-4894

Query Match
Best Local Similarity 75.0%; Score 30; DB 2; Length 224;
Pred. No. 2.8e+02;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 2 LPLNTLSF 9
Db 101 LPLNTLSF 108

RESULT 45
US-09-540-236-2746
; Sequence 2746, Application US/09540236
; Patent No. 6673910
; GENERAL INFORMATION:
; APPLICANT: Gary L. Breton et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO MORAXELLA CATARRHALIS
; FILE REFERENCE: 2709.2005-001
; CURRENT APPLICATION NUMBER: US/09/540,236
; CURRENT FILING DATE: 2000-04-04
; NUMBER OF SEQ ID NOS: 3840
; SEQ ID NO 2746
; LENGTH: 281
; TYPE: PRT
; ORGANISM: Moraxella catarrhalis
US-09-540-236-2746

Query Match
Best Local Similarity 55.6%; Score 30; DB 2; Length 281;
Pred. No. 3.5e+02;
Matches 5; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY 1 QLFNTLSF 9
Db 90 QLFNTLSF 98

RESULT 46
US-09-328-352-6473
; Sequence 6473, Application US/09328352

; Patent No. 6562958
; GENERAL INFORMATION:
; APPLICANT: Gary L. Breton et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO ACINETOBACTER BAUMANNII
; FILE REFERENCE: GTC99-03PA
; CURRENT APPLICATION NUMBER: US/09/328,352
; CURRENT FILING DATE: 1999-06-04
; NUMBER OF SEQ ID NOS: 8252
; SEQ ID NO 6473
; LENGTH: 283
; TYPE: PRT
; ORGANISM: Acinetobacter baumannii
US-09-328-352-6473

Query Match
Best Local Similarity 100.0%; Score 30; DB 2; Length 283;
Pred. No. 3.5e+02;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 QLFNTLS 6
Db 276 QLFNTLS 281

RESULT 47
US-09-270-767-35867
; Sequence 35867, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
; APPLICANT: Homburger et al.
; TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
; FILE REFERENCE: File Reference: 7326-094
; CURRENT APPLICATION NUMBER: US/09/270,767
; CURRENT FILING DATE: 1999-03-17
; NUMBER OF SEQ ID NOS: 62517
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 35867
; LENGTH: 306
; TYPE: PRT
; ORGANISM: Drosophila melanogaster
; FEATURE:
; OTHER INFORMATION: Xaa means any amino acid
US-09-270-767-35867

Query Match
Best Local Similarity 75.0%; Score 30; DB 2; Length 306;
Pred. No. 3.8e+02;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 QLFNTLS 8
Db 54 QLFNTLS 61

RESULT 48
US-09-270-767-51084
; Sequence 51084, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
; APPLICANT: Homburger et al.
; TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
; FILE REFERENCE: File Reference: 7326-094
; CURRENT APPLICATION NUMBER: US/09/270,767
; CURRENT FILING DATE: 1999-03-17
; NUMBER OF SEQ ID NOS: 62517
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 51084
; LENGTH: 306
; TYPE: PRT
; ORGANISM: Drosophila melanogaster
; FEATURE:
; OTHER INFORMATION: Xaa means any amino acid
US-09-270-767-51084

Query Match 68.2%; Score 30; DB 2; Length 306;
Best Local Similarity 75.0%; Pred. No. 3.8e+02;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 QPLNTLSF 8
DB 54 QLFIRLIS 61

RESULT 49
US-09-496-444-2
Sequence 2, Application US/09496444
Patent No. 6933376
GENERAL INFORMATION:
APPLICANT: Tao, Yumin
APPLICANT: Gordon-Kamm William J.
APPLICANT: Lowe, Keith S.
APPLICANT: Bailey, Matthew A.
TITLE OF INVENTION: Cell Cycle Polynucleotide, Polypeptide,
TITLE OF INVENTION: and Uses Thereof
FILE REFERENCE: 1109
CURRENT APPLICATION NUMBER: US/09/496,444
CURRENT FILING DATE: 2000-02-02
EARLIER APPLICATION NUMBER: US 60/119,857
EARLIER FILING DATE: 1999-02-12
EARLIER APPLICATION NUMBER: US 60/101,551
EARLIER FILING DATE: 1998-09-23
EARLIER APPLICATION NUMBER: US 09/398,858
EARLIER FILING DATE: 1999-09-20
EARLIER APPLICATION NUMBER: US 09/257,131
EARLIER FILING DATE: 1999-02-25
NUMBER OF SEQ ID NOS: 8
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 2
LENGTH: 424
TYPE: PRT
ORGANISM: Zea mays
US-09-496-444-2

Query Match 68.2%; Score 30; DB 2; Length 424;
Best Local Similarity 66.7%; Pred. No. 5.4e+02;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 QPLNTLSF 9
DB 278 KLINTLOF 286

RESULT 50
US-09-949-016-7901
Sequence 7901, Application US/09949016
Patent No. 6812339
GENERAL INFORMATION:
APPLICANT: VENTER, J. Craig et al.
TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
FILE REFERENCE: C1001307
CURRENT APPLICATION NUMBER: US/09/949,016
CURRENT FILING DATE: 2000-04-14
PRIOR APPLICATION NUMBER: 60/241,755
PRIOR FILING DATE: 2000-10-20
PRIOR APPLICATION NUMBER: 60/237,768
PRIOR FILING DATE: 2000-10-03
PRIOR APPLICATION NUMBER: 60/231,498
PRIOR FILING DATE: 2000-09-08
NUMBER OF SEQ ID NOS: 207012
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 7901
LENGTH: 451
TYPE: PRT
ORGANISM: Human
US-09-949-016-7901

Query Match 68.2%; Score 30; DB 2; Length 451;
Best Local Similarity 66.7%; Pred. No. 5.7e+02;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 QPLNTLSF 9
DB 224 QLFNTFISF 232

Search completed: May 5, 2006, 01:38:06
Job time : 20.2 secs

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OW protein - protein search, using sw model

Run on: May 5, 2006, 07:10:32 ; Search time 68.2 Seconds
(Without alignments)
55.139 Million cell updates/sec

Title: US-08-170-344-32
Perfect score: 44
Sequence: 1 QLEPLTUSF 9

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1867569 seqs, 417829326 residues
Total number of hits satisfying chosen parameters: 1867569

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 1000 summaries

Database : Published Applications_AA_Main:*
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2: /cgn2_6/ptodata/1/pubpaa/US08_PUBCOMB.pep:*
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Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

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1	44	100.0	9	US-10-751-845-123	Sequence 123, App
2	44	100.0	10	US-10-751-845-146	Sequence 146, App
3	44	100.0	17	US-10-751-845-156	Sequence 156, App
4	44	100.0	20	US-10-432-465-102	Sequence 102, App
5	44	100.0	20	US-10-433-091-71	Sequence 71, App
6	44	100.0	105	US-10-433-091-4	Sequence 4, App
7	44	100.0	118	US-10-472-724-8	Sequence 8, App
8	44	100.0	119	US-10-751-845-159	Sequence 159, App
9	44	100.0	227	US-10-000-903-16	Sequence 16, App
10	44	100.0	227	US-10-000-903-19	Sequence 19, App
11	44	100.0	227	US-10-899-771-15	Sequence 15, App
12	44	100.0	227	US-10-899-771-19	Sequence 19, App
13	44	100.0	236	US-10-751-845-157	Sequence 157, App
14	44	100.0	237	US-10-751-845-158	Sequence 158, App
15	44	100.0	261	US-10-751-845-160	Sequence 160, App
16	44	100.0	383	US-10-000-903-23	Sequence 23, App
17	44	100.0	383	US-10-899-771-23	Sequence 23, App
18	39	88.6	17	US-10-432-465-103	Sequence 103, App
19	39	88.6	17	US-10-433-091-12	Sequence 72, App
20	38	86.4	105	US-10-800-023-28	Sequence 28, App
21	36	81.8	355	US-11-097-143-17562	Sequence 17562, A
22	34	77.3	9	US-10-432-465-115	Sequence 115, App
23	34	77.3	9	US-10-432-465-115	Sequence 115, App
24	34	77.3	10	US-10-751-845-149	Sequence 149, App
25	34	77.3	67	US-10-437-963-186297	Sequence 186297, A
26	34	77.3	252	US-10-631-467-839	Sequence 839, App
27	34	77.3	300	US-10-774-355A-2092	Sequence 2092, App

28	34	77.3	442	US-10-369-493-9735	Sequence 9735, App
29	34	77.3	497	US-10-156-761-8691	Sequence 8691, App
30	34	77.3	520	US-10-437-963-197312	Sequence 197312, A
31	33	75.0	131	US-10-425-115-283550	Sequence 283550, A
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34	33	75.0	289	US-10-986-427-6	Sequence 6, App
35	33	75.0	449	US-09-738-626-6150	Sequence 6150, App
36	33	75.0	845	US-10-437-963-148574	Sequence 148574, A
37	32	72.7	1668	US-10-424-599-21588	Sequence 21588, A
38	32	72.7	13	US-10-447-161-145	Sequence 145, App
39	32	72.7	52	US-10-425-115-223059	Sequence 223059, A
40	32	72.7	63	US-09-833-245-1051	Sequence 1051, App
41	32	72.7	63	US-09-833-245-1052	Sequence 1052, App
42	32	72.7	103	US-10-424-599-190864	Sequence 190864, A
43	32	72.7	223	US-10-437-963-124750	Sequence 124750, A
44	32	72.7	222	US-09-919-497-71	Sequence 71, App
45	32	72.7	339	US-10-767-701-42506	Sequence 42506, A
46	32	72.7	352	US-10-425-115-239449	Sequence 239449, A
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66	31	70.5	322	US-10-369-493-231	Sequence 231, App
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69	31	70.5	396	US-10-369-493-785	Sequence 785, App
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71	31	70.5	396	US-10-673-786A-2	Sequence 2, App
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76	31	70.5	553	US-10-469-862-2	Sequence 2, App
77	31	70.5	555	US-10-407-866-95	Sequence 95, App
78	31	70.5	561	US-10-437-963-169643	Sequence 169643, A
79	31	70.5	566	US-10-128-558-181	Sequence 181, App
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81	31	70.5	597	US-10-414-080-32	Sequence 32, App
82	31	70.5	601	US-09-853-386-94	Sequence 94, App
83	31	70.5	601	US-10-414-080-51	Sequence 51, App
84	31	70.5	631	US-10-116-422-4	Sequence 4, App
85	31	70.5	631	US-09-986-224-4	Sequence 4, App
86	31	70.5	631	US-10-128-122A-51332	Sequence 51332, A
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98	31	70.5	710	US-10-450-763-56254	Sequence 56254, A
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103	31	70.5	764	4	US-10-407-066-76	Sequence 764, Appl	176	30	68.2	281	4	US-10-424-599-223740	Sequence 223740,
104	31	70.5	770	4	US-10-408-765A-125	Sequence 125, Ap	177	30	68.2	310	5	US-10-774-355A-22589	Sequence 2589, Ap
105	31	70.5	784	4	US-10-451-207-3	Sequence 3, Appl1	178	30	68.2	319	3	US-09-886-055-147	Sequence 147, App
106	31	70.5	828	5	US-10-456-011-14	Sequence 14, Appl	179	30	68.2	319	3	US-09-804-291-147	Sequence 147, App
107	31	70.5	828	5	US-10-456-011-15	Sequence 15, Appl	180	30	68.2	319	3	US-09-907-218-114	Sequence 14, Appl
108	31	70.5	828	5	US-10-456-011-16	Sequence 16, Appl	181	30	68.2	319	3	US-09-907-218-16	Sequence 16, Appl
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110	31	70.5	848	3	US-10-193-452-31	Sequence 31, Appl	183	30	68.2	319	4	US-10-182-822A-16	Sequence 16, App
111	31	70.5	875	3	US-09-848-035-16	Sequence 16, Appl	184	30	68.2	319	4	US-10-387-629-26	Sequence 26, Appl
112	31	70.5	875	3	US-09-986-224-16	Sequence 16, Appl	185	30	68.2	319	4	US-10-292-798-164	Sequence 164, App
113	31	70.5	875	3	US-10-116-422-16	Sequence 16, Appl	186	30	68.2	319	4	US-10-43-650A-440	Sequence 420, App
114	31	70.5	947	3	US-09-871-889-1	Sequence 1, Appl1	187	30	68.2	319	5	US-10-819-316-147	Sequence 147, App
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116	31	70.5	947	4	US-10-087-192-888	Sequence 888, App	189	30	68.2	325	3	US-09-949-925-103	Sequence 103, App
117	31	70.5	947	4	US-10-394-322A-44	Sequence 44, Appl	190	30	68.2	348	3	US-09-813-153-178	Sequence 178, App
118	31	70.5	1033	5	US-10-794-342-20	Sequence 20, Appl	191	30	68.2	348	3	US-09-949-925-178	Sequence 178, App
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122	30	68.2	43	3	US-09-813-153-179	Sequence 179, App	195	30	68.2	420	5	US-10-732-923-376	Sequence 376, App
123	30	68.2	43	3	US-09-949-925-179	Sequence 179, App	196	30	68.2	420	5	US-10-732-923-2868	Sequence 2868, App
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127	30	68.2	50	4	US-10-106-698-7376	Sequence 7376, Ap	200	30	68.2	424	4	US-10-110-154-418	Sequence 418, App
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131	30	68.2	55	4	US-10-437-963-103380	Sequence 103380,	204	30	68.2	429	4	US-10-732-923-2708	Sequence 2708, App
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133	30	68.2	59	4	US-10-424-599-220841	Sequence 220841,	206	30	68.2	433	4	US-10-741-601-465	Sequence 465, App
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141	30	68.2	72	4	US-10-425-115-320020	Sequence 320020,	214	30	68.2	476	3	US-09-387-340-28	Sequence 28, Appl
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155	30	68.2	152	4	US-10-767-701-35793	Sequence 35793, A	228	30	68.2	493	5	US-10-741-600-1337	Sequence 1337, Ap
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158	30	68.2	157	4	US-10-767-701-46941	Sequence 46941, A	231	30	68.2	496	4	US-10-339-522-6	Sequence 6, Appl1
159	30	68.2	157	4	US-10-425-115-255704	Sequence 255704,	232	30	68.2	497	2	US-08-785-997-26	Sequence 26, Appl
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161	30	68.2	166	4	US-10-767-701-39791	Sequence 39791, A	234	30	68.2	497	3	US-09-386-591-26	Sequence 26, Appl
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170	30	68.2	201	6	US-11-097-143-1923	Sequence 1913, Ap	243	30	68.2	581	3	US-09-802-640-7	Sequence 7, Appl1
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173	30	68.2	248	5	US-10-774-355A-2344	Sequence 2344, Ap	246	30	68.2	587	4	US-10-755-889-64	Sequence 64, Appl

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252	30	68.2	598	3	US-09-853-386-36	Sequence 36, Appl	325	30	68.2	816	3	US-09-999-833A-375	Sequence 375, App
253	30	68.2	598	3	US-09-853-386-37	Sequence 37, Appl	326	30	68.2	816	3	US-09-978-824-375	Sequence 375, App
254	30	68.2	598	3	US-09-853-386-38	Sequence 38, Appl	327	30	68.2	816	3	US-09-978-824-375	Sequence 375, App
255	30	68.2	598	3	US-09-853-386-39	Sequence 39, Appl	328	30	68.2	816	3	US-09-999-834A-375	Sequence 375, App
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257	30	68.2	598	3	US-09-853-386-41	Sequence 41, Appl	330	30	68.2	816	3	US-09-978-193A-375	Sequence 375, App
258	30	68.2	598	3	US-09-853-386-45	Sequence 45, Appl	331	30	68.2	816	3	US-09-999-830A-375	Sequence 375, App
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261	30	68.2	598	4	US-10-205-951-75	Sequence 75, Appl	334	30	68.2	816	3	US-09-978-643A-375	Sequence 375, App
262	30	68.2	598	4	US-10-205-951-77	Sequence 77, Appl	335	30	68.2	816	3	US-09-978-375A-375	Sequence 375, App
263	30	68.2	598	4	US-10-205-951-78	Sequence 78, Appl	336	30	68.2	816	3	US-09-978-298A-375	Sequence 375, App
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266	30	68.2	598	4	US-10-205-951-81	Sequence 81, Appl	339	30	68.2	816	3	US-09-978-194A-375	Sequence 375, App
267	30	68.2	598	4	US-10-205-951-82	Sequence 82, Appl	340	30	68.2	816	3	US-09-999-829A-375	Sequence 375, App
268	30	68.2	598	4	US-10-205-951-83	Sequence 83, Appl	341	30	68.2	816	3	US-09-978-544A-375	Sequence 375, App
269	30	68.2	598	4	US-10-205-951-87	Sequence 87, Appl	342	30	68.2	816	3	US-09-978-802A-375	Sequence 375, App
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271	30	68.2	598	4	US-10-247-671-175	Sequence 175, App	344	30	68.2	816	3	US-10-016-177A-375	Sequence 375, App
272	30	68.2	598	4	US-10-611-310-4	Sequence 4, Appl	345	30	68.2	816	3	US-10-166-709A-375	Sequence 375, App
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274	30	68.2	598	5	US-10-837-182-4	Sequence 4, Appl	347	30	68.2	816	4	US-10-143-030A-375	Sequence 375, App
275	30	68.2	600	3	US-09-853-386-34	Sequence 34, Appl	348	30	68.2	816	4	US-10-002-937A-375	Sequence 375, App
276	30	68.2	600	4	US-10-205-951-16	Sequence 16, Appl	349	30	68.2	816	4	US-10-017-081A-375	Sequence 375, App
277	30	68.2	600	4	US-10-437-963-137178	Sequence 137178, Appl	350	30	68.2	816	4	US-10-013-921A-375	Sequence 375, App
278	30	68.2	603	4	US-10-425-115-332427	Sequence 332427, Appl	351	30	68.2	816	4	US-10-013-929A-375	Sequence 375, App
279	30	68.2	625	3	US-09-853-386-63	Sequence 63, Appl	352	30	68.2	816	4	US-10-016-177A-375	Sequence 375, App
280	30	68.2	625	3	US-10-414-080-13	Sequence 13, Appl	353	30	68.2	816	4	US-10-166-709A-375	Sequence 375, App
281	30	68.2	626	3	US-09-853-386-64	Sequence 64, Appl	354	30	68.2	816	4	US-10-143-031A-375	Sequence 375, App
282	30	68.2	626	3	US-09-853-386-65	Sequence 65, Appl	355	30	68.2	816	4	US-10-143-030A-375	Sequence 375, App
283	30	68.2	626	3	US-09-853-386-96	Sequence 96, Appl	356	30	68.2	816	4	US-10-002-937A-375	Sequence 375, App
284	30	68.2	626	4	US-10-414-080-14	Sequence 14, Appl	357	30	68.2	816	4	US-10-017-083A-375	Sequence 375, App
285	30	68.2	626	4	US-10-608-863-2	Sequence 2, Appl	358	30	68.2	816	4	US-10-145-128A-375	Sequence 375, App
286	30	68.2	626	5	US-10-659-004-116	Sequence 116, App	359	30	68.2	816	4	US-10-017-191A-375	Sequence 375, App
287	30	68.2	627	3	US-09-853-386-67	Sequence 67, Appl	360	30	68.2	816	4	US-10-143-028A-375	Sequence 375, App
288	30	68.2	627	3	US-10-005-169-2	Sequence 2, Appl	361	30	68.2	816	4	US-10-143-029A-375	Sequence 375, App
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290	30	68.2	628	3	US-09-853-386-68	Sequence 68, Appl	363	30	68.2	816	4	US-10-145-089A-375	Sequence 375, App
291	30	68.2	628	3	US-09-853-386-73	Sequence 73, Appl	364	30	68.2	816	4	US-10-145-089A-375	Sequence 375, App
292	30	68.2	628	4	US-10-005-169-4	Sequence 4, Appl	365	30	68.2	816	4	US-10-145-124A-375	Sequence 375, App
293	30	68.2	628	4	US-10-414-080-15	Sequence 15, Appl	366	30	68.2	816	4	US-10-145-124A-375	Sequence 375, App
294	30	68.2	639	4	US-10-437-963-159131	Sequence 159131, Appl	367	30	68.2	816	4	US-10-145-124A-375	Sequence 375, App
295	30	68.2	643	3	US-09-853-386-70	Sequence 70, Appl	368	30	68.2	816	4	US-10-160-502A-375	Sequence 375, App
296	30	68.2	643	4	US-10-414-080-17	Sequence 17, Appl	369	30	68.2	816	4	US-10-145-087A-375	Sequence 375, App
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304	30	68.2	663	4	US-10-287-274-332	Sequence 332, App	377	30	68.2	816	4	US-10-017-084A-375	Sequence 375, App
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307	30	68.2	663	4	US-10-282-122A-75460	Sequence 75460, A	380	30	68.2	816	4	US-10-145-088A-375	Sequence 375, App
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314	30	68.2	816	3	US-09-978-295A-375	Sequence 375, App	387	30	68.2	816	4	US-10-210-028A-375	Sequence 375, App
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316	30	68.2	816	3	US-09-978-697-375	Sequence 375, App	389	30	68.2	816	4	US-10-013-916A-375	Sequence 375, App
317	30	68.2	816	3	US-09-978-192A-375	Sequence 375, App	390	30	68.2	816	4	US-10-013-916A-375	Sequence 375, App
318	30	68.2	816	3	US-09-999-833A-375	Sequence 375, App	391	30	68.2	816	4	US-10-013-918A-375	Sequence 375, App
319	30	68.2	816	3	US-09-978-189-375	Sequence 375, App	392	30	68.2	816	4	US-10-162-521A-375	Sequence 375, App

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394	30	68.2	816	4	US-10-162-522A-375	Sequence 375, App	467	29	65.9	142	4	US-10-424-599-159574	Sequence 159574,
395	30	68.2	816	4	US-10-013-923A-375	Sequence 375, App	468	29	65.9	149	4	US-10-425-115-239055	Sequence 239055,
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413	30	68.2	823	5	US-10-408-765A-875	Sequence 875, App	486	29	65.9	252	4	US-10-343-650A-652	Sequence 652, App
414	30	68.2	823	5	US-10-723-860-545	Sequence 545, App	487	29	65.9	286	4	US-10-343-650A-538	Sequence 538, App
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417	30	68.2	835	3	US-09-934-323-2	Sequence 2, Appl	490	29	65.9	309	4	US-10-292-798-50	Sequence 50, Appl
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419	30	68.2	835	4	US-10-193-452-54	Sequence 54, Appl	492	29	65.9	310	5	US-10-774-355A-1418	Sequence 1418, Ap
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543	29	65.9	319	3	US-09-886-055-387	Sequence 387, App	616	29	65.9	335	4	US-10-180-559-174	Sequence 174, App
544	29	65.9	319	3	US-09-804-291-387	Sequence 387, App	617	29	65.9	335	4	US-10-181-000-174	Sequence 174, App
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546	29	65.9	319	4	US-10-292-798-132	Sequence 132, App	619	29	65.9	335	4	US-10-184-614-174	Sequence 174, App
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551	29	65.9	319	5	US-10-819-316-387	Sequence 387, App	624	29	65.9	335	4	US-10-184-647-174	Sequence 174, App
552	29	65.9	320	3	US-09-510-332-160	Sequence 160, App	625	29	65.9	335	4	US-10-184-647-174	Sequence 174, App
553	29	65.9	320	4	US-10-770-127-160	Sequence 160, App	626	29	65.9	335	4	US-10-184-652-174	Sequence 174, App
554	29	65.9	320	5	US-10-962-365-160	Sequence 160, App	627	29	65.9	335	4	US-10-187-594-174	Sequence 174, App
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557	29	65.9	335	3	US-09-946-374-33	Sequence 33, App1	630	29	65.9	335	4	US-10-187-885-174	Sequence 174, App
558	29	65.9	335	4	US-10-052-586-174	Sequence 174, App	631	29	65.9	335	4	US-10-187-886-174	Sequence 174, App
559	29	65.9	335	4	US-10-114-590-174	Sequence 174, App	632	29	65.9	335	4	US-10-187-886-174	Sequence 174, App
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898	29	65.9	335	4	US-10-199-457-174	Sequence 174, App	971	29	65.9	335	4	US-10-207-924-174	Sequence 174, App
899	29	65.9	335	4	US-10-199-459-174	Sequence 174, App	972	29	65.9	335	4	US-10-207-924-174	Sequence 174, App
900	29	65.9	335	4	US-10-199-460-174	Sequence 174, App	973	29	65.9	335	4	US-10-207-924-174	Sequence 174, App
901	29	65.9	335	4	US-10-199-461-174	Sequence 174, App	974	29	65.9	335	4	US-10-207-924-174	Sequence 174, App
902	29	65.9	335	4	US-10-199-667-174	Sequence 174, App	975	29	65.9	335	4	US-10-207-924-174	Sequence 174, App
903	29	65.9	335	4	US-10-199-672-174	Sequence 174, App	976	29	65.9	335	4	US-10-207-924-174	Sequence 174, App

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977 29 65.9 335 4 US-10-006-116A-33 Sequence 33, Appl
978 29 65.9 335 4 US-10-006-117A-33 Sequence 33, Appl
979 29 65.9 335 4 US-10-017-527A-33 Sequence 33, Appl
980 29 65.9 335 4 US-10-183-003-174 Sequence 174, App
981 29 65.9 335 4 US-10-183-016-174 Sequence 174, App
982 29 65.9 335 4 US-10-173-696-174 Sequence 174, App
983 29 65.9 335 4 US-10-013-913A-33 Sequence 33, Appl
984 29 65.9 335 4 US-10-125-923A-174 Sequence 174, App
985 29 65.9 335 4 US-10-176-491-174 Sequence 174, App
986 29 65.9 335 4 US-10-187-592-174 Sequence 174, App
987 29 65.9 335 4 US-10-187-592-174 Sequence 174, App
988 29 65.9 335 4 US-10-007-194A-33 Sequence 33, Appl
989 29 65.9 335 4 US-10-197-691-174 Sequence 174, App
990 29 65.9 335 4 US-10-198-771-174 Sequence 174, App
991 29 65.9 335 4 US-10-013-430A-33 Sequence 33, Appl
992 29 65.9 335 4 US-10-174-575A-174 Sequence 174, App
993 29 65.9 335 4 US-10-179-520-174 Sequence 174, App
994 29 65.9 335 4 US-10-201-325-174 Sequence 174, App
995 29 65.9 335 4 US-10-202-941-174 Sequence 174, App
996 29 65.9 335 4 US-10-205-910-174 Sequence 174, App
997 29 65.9 335 4 US-10-011-671A-33 Sequence 33, Appl
998 29 65.9 335 4 US-10-012-755A-33 Sequence 33, Appl
999 29 65.9 335 4 US-10-015-386A-33 Sequence 33, Appl
1000 29 65.9 335 4 US-10-179-526-174 Sequence 174, App
```

ALIGNMENTS

```
RESULT 1
US-10-751-845-123
; Sequence 123, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
; APPLICANT: Hedley, Mary Lynne
; APPLICANT: Urban, Robert G.
; APPLICANT: Chicz, Roman M.
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES
; FILE REFERENCE: 08191-013001
; CURRENT APPLICATION NUMBER: US/10/751,845
; CURRENT FILING DATE: 2004-01-05
; PRIOR APPLICATION NUMBER: US/09/664,225
; PRIOR FILING DATE: 2000-08-18
; PRIOR APPLICATION NUMBER: US 60/169,846
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: US 60/154,665
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 163
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 123
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Human Papilloma virus
US-10-751-845-123

Query Match      100.0%; Score 44; DB 5; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.7e+06;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
; FILE REFERENCE: 08191-013001
; CURRENT APPLICATION NUMBER: US/10/751,845
; CURRENT FILING DATE: 2004-01-05
; PRIOR APPLICATION NUMBER: US/09/664,225
; PRIOR FILING DATE: 2000-08-18
; PRIOR APPLICATION NUMBER: US 60/169,846
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: US 60/154,665
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 163
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 146
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Human Papilloma virus
US-10-751-845-146

Query Match      100.0%; Score 44; DB 5; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.11;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
RESULT 3
US-10-751-845-156
; Sequence 156, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
; APPLICANT: Hedley, Mary Lynne
; APPLICANT: Urban, Robert G.
; APPLICANT: Chicz, Roman M.
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES
; FILE REFERENCE: 08191-013001
; CURRENT APPLICATION NUMBER: US/10/751,845
; CURRENT FILING DATE: 2004-01-05
; PRIOR APPLICATION NUMBER: US/09/664,225
; PRIOR FILING DATE: 2000-08-18
; PRIOR APPLICATION NUMBER: US 60/169,846
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: US 60/154,665
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 163
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 156
; LENGTH: 17
; TYPE: PRT
; ORGANISM: Human Papilloma virus
US-10-751-845-156

Query Match      100.0%; Score 44; DB 5; Length 17;
Best Local Similarity 100.0%; Pred. No. 0.19;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
RESULT 2
US-10-751-845-146
; Sequence 146, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
; APPLICANT: Hedley, Mary Lynne
; APPLICANT: Urban, Robert G.
; APPLICANT: Chicz, Roman M.
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES
```

```
RESULT 4
US-10-432-465-102
; Sequence 102, Application US/10432465
; Publication No. US20040091479A1
; GENERAL INFORMATION:
; APPLICANT: Kaufmann, John
; APPLICANT: Kather, Angela
; APPLICANT: Schinz, Manuela
; TITLE OF INVENTION: T-Cell Epitopes of the Papillomavirus L1
; TITLE OF INVENTION: Protein and E7 Protein and Their Use in Diagnosis and
; TITLE OF INVENTION: Therapy
```

FILE REFERENCE: 50125/077001
CURRENT APPLICATION NUMBER: US/10/432,465
CURRENT FILING DATE: 2003-12-10
PRIOR APPLICATION NUMBER: PCT/EP01/14037
PRIOR FILING DATE: 2003-11-30
PRIOR APPLICATION NUMBER: DE 10059631.2
PRIOR FILING DATE: 2000-12-01
NUMBER OF SEQ ID NOS: 116
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 102
LENGTH: 20
TYPE: PRT
ORGANISM: Human papillomavirus
US-10-432-465-102

Query Match 100.0%; Score 44; DB 4; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.23; Indels 0; Gaps 0;
Matches 9; Conservative 0; Mismatches 0;

OY 1 QLFNTLSF 9
Db 11 QLFNTLSF 19

RESULT 5
US-10-433-091-71
Sequence 71, Application US/10433091
Publication No. US20040101533A1
GENERAL INFORMATION:
APPLICANT: MULLER, RAINER
APPLICANT: NIELAND, JOHN
APPLICANT: GABELSBERGER, JOSEF
APPLICANT: HERBST, RUTH
TITLE OF INVENTION: MEDICAMENT FOR PREVENTING OR TREATING TUMORS CAUSED BY
FILE REFERENCE: 037067/0115
CURRENT APPLICATION NUMBER: US/10/433,091
CURRENT FILING DATE: 2003-11-25
PRIOR APPLICATION NUMBER: PCT/EP01/14038
PRIOR FILING DATE: 2001-11-30
PRIOR APPLICATION NUMBER: DE 100 59 630.4
PRIOR FILING DATE: 2000-12-01
NUMBER OF SEQ ID NOS: 72
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 71
LENGTH: 20
TYPE: PRT
ORGANISM: Human papillomavirus type 18
US-10-433-091-71

Query Match 100.0%; Score 44; DB 4; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.23; Indels 0; Gaps 0;
Matches 9; Conservative 0; Mismatches 0;

OY 1 QLFNTLSF 9
Db 11 QLFNTLSF 19

RESULT 6
US-10-433-091-4
Sequence 4, Application US/10433091
Publication No. US20040101533A1
GENERAL INFORMATION:
APPLICANT: MULLER, RAINER
APPLICANT: NIELAND, JOHN
APPLICANT: GABELSBERGER, JOSEF
APPLICANT: HERBST, RUTH
TITLE OF INVENTION: MEDICAMENT FOR PREVENTING OR TREATING TUMORS CAUSED BY
FILE REFERENCE: 037067/0115
CURRENT APPLICATION NUMBER: US/10/433,091
CURRENT FILING DATE: 2003-11-25

PRIOR APPLICATION NUMBER: PCT/EP01/14038
PRIOR FILING DATE: 2001-11-30
PRIOR APPLICATION NUMBER: DE 100 59 630.4
PRIOR FILING DATE: 2000-12-01
NUMBER OF SEQ ID NOS: 72
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 4
LENGTH: 105
TYPE: PRT
ORGANISM: Human papillomavirus type 18
US-10-433-091-4

Query Match 100.0%; Score 44; DB 4; Length 105;
Best Local Similarity 100.0%; Pred. No. 1.2; Indels 0; Gaps 0;
Matches 9; Conservative 0; Mismatches 0;

OY 1 QLFNTLSF 9
Db 88 QLFNTLSF 96

RESULT 7
US-10-472-724-8
Sequence 8, Application US/10472724
Publication No. US20040171806A1
GENERAL INFORMATION:
APPLICANT: Cid-Atregui, Angel
APPLICANT: Zur Hausen, Harald
TITLE OF INVENTION: Modified HPV E6 and E7 genes and proteins useful for vaccination
FILE REFERENCE: 4121-154
CURRENT APPLICATION NUMBER: US/10/472,724
CURRENT FILING DATE: 2003-09-17
PRIOR APPLICATION NUMBER: PCT/EP02/03271
PRIOR FILING DATE: 2002-03-22
PRIOR APPLICATION NUMBER: EP 01107271.7
PRIOR FILING DATE: 2001-03-23
NUMBER OF SEQ ID NOS: 27
SOFTWARE: PatentIn version 3.2
SEQ ID NO 8
LENGTH: 118
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic Construct
US-10-472-724-8

Query Match 100.0%; Score 44; DB 4; Length 118;
Best Local Similarity 100.0%; Pred. No. 1.3; Indels 0; Gaps 0;
Matches 9; Conservative 0; Mismatches 0;

OY 1 QLFNTLSF 9
Db 93 QLFNTLSF 101

RESULT 8
US-10-751-845-159
Sequence 159, Application US/10751845
Publication No. US20050100928A1
GENERAL INFORMATION:
APPLICANT: Hedley, Mary Lynne
APPLICANT: Urban, Robert G.
APPLICANT: Chicz, Roman M.
TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES
FILE REFERENCE: 08191-013001
CURRENT APPLICATION NUMBER: US/10/751,845
CURRENT FILING DATE: 2004-01-05
PRIOR APPLICATION NUMBER: US/09/664,225
PRIOR FILING DATE: 2000-08-18
PRIOR APPLICATION NUMBER: US 60/169,846
PRIOR FILING DATE: 1999-12-09
PRIOR APPLICATION NUMBER: US 60/154,665
PRIOR FILING DATE: 1999-09-16

NUMBER OF SEQ ID NOS: 163
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 159
LENGTH: 119
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Artificial fusion sequence
US-10-751-845-159

Query Match 100.0%; Score 44; DB 5; Length 119;
Best Local Similarity 100.0%; Pred. No. 1.4;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 QLFNTLSF 9
Db 106 QLFNTLSF 114

RESULT 9
US-10-000-903-16
Sequence 16, Application US/10000903
Publication No. US20020182221A1
GENERAL INFORMATION:
APPLICANT: Bruck, Claudine
APPLICANT: Cabezon Silva, Teresa
APPLICANT: Delisse, Anne-Marie Eva Bernande
APPLICANT: Gerard, Catherine Marie Ghislaine
APPLICANT: Lombardo-Bencheikh, Angela
TITLE OF INVENTION: Vaccine
FILE REFERENCE: B45107
CURRENT APPLICATION NUMBER: US/10/000,903
CURRENT FILING DATE: 2001-10-01
PRIOR APPLICATION NUMBER: PCT/EP98/05285
PRIOR FILING DATE: 1998-08-17
PRIOR APPLICATION NUMBER: GB 9717953.5
PRIOR FILING DATE: 1997-08-22
NUMBER OF SEQ ID NOS: 23
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 16
LENGTH: 227
TYPE: PRT
ORGANISM: Homo sapien
US-10-000-903-16

Query Match 100.0%; Score 44; DB 4; Length 227;
Best Local Similarity 100.0%; Pred. No. 2.6;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 QLFNTLSF 9
Db 201 QLFNTLSF 209

RESULT 10
US-10-000-903-19
Sequence 19, Application US/10000903
Publication No. US20020182221A1
GENERAL INFORMATION:
APPLICANT: Bruck, Claudine
APPLICANT: Cabezon Silva, Teresa
APPLICANT: Delisse, Anne-Marie Eva Bernande
APPLICANT: Gerard, Catherine Marie Ghislaine
APPLICANT: Lombardo-Bencheikh, Angela
TITLE OF INVENTION: Vaccine
FILE REFERENCE: B45107
CURRENT APPLICATION NUMBER: US/10/000,903
CURRENT FILING DATE: 2001-10-01
PRIOR APPLICATION NUMBER: PCT/EP98/05285
PRIOR FILING DATE: 1998-08-17
PRIOR APPLICATION NUMBER: GB 9717953.5
PRIOR FILING DATE: 1997-08-22
NUMBER OF SEQ ID NOS: 23

SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 19
LENGTH: 227
TYPE: PRT
ORGANISM: Homo sapien
US-10-000-903-19

Query Match 100.0%; Score 44; DB 4; Length 227;
Best Local Similarity 100.0%; Pred. No. 2.6;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 QLFNTLSF 9
Db 201 QLFNTLSF 209

RESULT 11
US-10-899-771-16
Sequence 16, Application US/10899771
Publication No. US20050031638A1
GENERAL INFORMATION:
APPLICANT: Dalemans, Wilfried L.J.
APPLICANT: Gerard, Catherine Marie Ghislaine
TITLE OF INVENTION: Compositions Comprising Human Papilloma Virus Proteins
TITLE OF INVENTION: and Fusion Proteins Adjuvanted with a Cpg Oligonucleotide
FILE REFERENCE: B45124
CURRENT APPLICATION NUMBER: US/10/899,771
CURRENT FILING DATE: 2004-07-27
PRIOR APPLICATION NUMBER: US/09/581,976
PRIOR FILING DATE: 2000-06-20
PRIOR APPLICATION NUMBER: PCT/EP98/08563
PRIOR FILING DATE: 1998-12-18
PRIOR APPLICATION NUMBER: GB 9727262.9
PRIOR FILING DATE: 1997-12-24
NUMBER OF SEQ ID NOS: 28
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 16
LENGTH: 227
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Chimeric protein (protein D from Haemophilus
OTHER INFORMATION: influenzae B and E7 from Human papilloma virus type
US-10-899-771-16

Query Match 100.0%; Score 44; DB 5; Length 227;
Best Local Similarity 100.0%; Pred. No. 2.6;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 QLFNTLSF 9
Db 201 QLFNTLSF 209

RESULT 12
US-10-899-771-19
Sequence 19, Application US/10899771
Publication No. US20050031638A1
GENERAL INFORMATION:
APPLICANT: Dalemans, Wilfried L.J.
APPLICANT: Gerard, Catherine Marie Ghislaine
TITLE OF INVENTION: Compositions Comprising Human Papilloma Virus Proteins
TITLE OF INVENTION: and Fusion Proteins Adjuvanted with a Cpg Oligonucleotide
FILE REFERENCE: B45124
CURRENT APPLICATION NUMBER: US/10/899,771
CURRENT FILING DATE: 2004-07-27
PRIOR APPLICATION NUMBER: US/09/581,976
PRIOR FILING DATE: 2000-06-20
PRIOR APPLICATION NUMBER: PCT/EP98/08563
PRIOR FILING DATE: 1998-12-18
PRIOR APPLICATION NUMBER: GB 9727262.9
PRIOR FILING DATE: 1997-12-24

NUMBER OF SEQ ID NOS: 28
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 19
LENGTH: 227
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Chimeric protein (protein D from Haemophilus
OTHER INFORMATION: Influenzae B and mutated E7 from Human papilloma
OTHER INFORMATION: virus type 18)
US-10-899-771-19

Query Match 100.0%; Score 44; DB 5; Length 227;
Best Local Similarity 100.0%; Pred. No. 2.6;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 QLFNTLSF 9
Db 201 QLFNTLSF 209

RESULT 13
US-10-751-845-157
Sequence 157, Application US/10751845
Publication No. US20050100928A1
GENERAL INFORMATION:
APPLICANT: Hedley, Mary Lynne
APPLICANT: Urban, Robert G.
APPLICANT: Chicz, Roman M.
TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES
FILE REFERENCE: 08191-013001
CURRENT APPLICATION NUMBER: US/10/751,845
CURRENT FILING DATE: 2004-01-05
PRIOR APPLICATION NUMBER: US/09/664,225
PRIOR FILING DATE: 2000-08-18
PRIOR APPLICATION NUMBER: US 60/169,846
PRIOR FILING DATE: 1999-12-09
PRIOR APPLICATION NUMBER: US 60/154,665
PRIOR FILING DATE: 1999-09-16
NUMBER OF SEQ ID NOS: 163
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 157
LENGTH: 236
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Artificial fusion sequence
US-10-751-845-157

Query Match 100.0%; Score 44; DB 5; Length 236;
Best Local Similarity 100.0%; Pred. No. 2.7;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 QLFNTLSF 9
Db 223 QLFNTLSF 231

RESULT 14
US-10-751-845-158
Sequence 158, Application US/10751845
Publication No. US20050100928A1
GENERAL INFORMATION:
APPLICANT: Hedley, Mary Lynne
APPLICANT: Urban, Robert G.
APPLICANT: Chicz, Roman M.
TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES
FILE REFERENCE: 08191-013001
CURRENT APPLICATION NUMBER: US/10/751,845
CURRENT FILING DATE: 2004-01-05
PRIOR APPLICATION NUMBER: US/09/664,225
PRIOR FILING DATE: 2000-08-18
PRIOR APPLICATION NUMBER: US 60/169,846

PRIOR FILING DATE: 1999-12-09
PRIOR APPLICATION NUMBER: US 60/154,665
PRIOR FILING DATE: 1999-09-16
NUMBER OF SEQ ID NOS: 163
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 158
LENGTH: 237
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Artificial fusion sequence
US-10-751-845-158

Query Match 100.0%; Score 44; DB 5; Length 237;
Best Local Similarity 100.0%; Pred. No. 2.7;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 QLFNTLSF 9
Db 224 QLFNTLSF 232

RESULT 15
US-10-751-845-160
Sequence 160, Application US/10751845
Publication No. US20050100928A1
GENERAL INFORMATION:
APPLICANT: Hedley, Mary Lynne
APPLICANT: Urban, Robert G.
APPLICANT: Chicz, Roman M.
TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES
FILE REFERENCE: 08191-013001
CURRENT APPLICATION NUMBER: US/10/751,845
CURRENT FILING DATE: 2004-01-05
PRIOR APPLICATION NUMBER: US/09/664,225
PRIOR FILING DATE: 2000-08-18
PRIOR APPLICATION NUMBER: US 60/169,846
PRIOR FILING DATE: 1999-12-09
PRIOR APPLICATION NUMBER: US 60/154,665
PRIOR FILING DATE: 1999-09-16
NUMBER OF SEQ ID NOS: 163
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 160
LENGTH: 261
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Artificial fusion sequence
US-10-751-845-160

Query Match 100.0%; Score 44; DB 5; Length 261;
Best Local Similarity 100.0%; Pred. No. 3;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 QLFNTLSF 9
Db 248 QLFNTLSF 256

RESULT 16
US-10-000-903-23
Sequence 23, Application US/10000903
Publication No. US20020182221A1
GENERAL INFORMATION:
APPLICANT: Bruck, Claudine
APPLICANT: Cabazon Silva, Teresa
APPLICANT: Delisse, Anne-Marie Eva Bernarde
APPLICANT: Gerard, Catherine Marie Ghislaine
APPLICANT: Lombardo-Bencheikh, Angela
TITLE OF INVENTION: Vaccine
FILE REFERENCE: B45107
CURRENT APPLICATION NUMBER: US/10/000,903
CURRENT FILING DATE: 2001-10-01

PRIOR APPLICATION NUMBER: PCT/EP98/05285
PRIOR FILING DATE: 1998-08-17
PRIOR APPLICATION NUMBER: GB 9717953.5
PRIOR FILING DATE: 1997-08-22
NUMBER OF SEQ ID NOS: 23
SOFTWARE: FaastSeq for Windows Version 3.0
SEQ ID NO 23
LENGTH: 383
TYPE: PRT
ORGANISM: Homo sapien
US-10-000-903-23

Query Match 100.0%; Score 44; DB 4; Length 383;
Best Local Similarity 100.0%; Pred. No. 4.4;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 QLENTLSF 9
Db 357 QLENTLSF 365

RESULT 17
US-10-899-771-23
Sequence 23, Application US/10899771
Publication No. US20050031638A1
GENERAL INFORMATION:
APPLICANT: Dalemans, Wilfried L.J.
APPLICANT: Gerard, Catherine Marie Ghislaine
TITLE OF INVENTION: Compositions Comprising Human Papilloma Virus Proteins
and Fusion Proteins Adjuvanted with a Cpg Oligonucleotide
FILE REFERENCE: B45124
CURRENT APPLICATION NUMBER: US/10/899,771
CURRENT FILING DATE: 2004-07-27
PRIOR APPLICATION NUMBER: US/09/581,976
PRIOR FILING DATE: 2000-06-20
PRIOR APPLICATION NUMBER: PCT/EP98/08563
PRIOR FILING DATE: 1998-12-18
PRIOR APPLICATION NUMBER: GB 9727262.9
PRIOR FILING DATE: 1997-12-24
NUMBER OF SEQ ID NOS: 28
SOFTWARE: FaastSeq for Windows Version 3.0
SEQ ID NO 23
LENGTH: 383
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Chimeric protein (protein D from Haemophilus
OTHER INFORMATION: influenza B and E6E7 fusion from Human papilloma
US-10-899-771-23

Query Match 100.0%; Score 44; DB 5; Length 383;
Best Local Similarity 100.0%; Pred. No. 4.4;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 QLENTLSF 9
Db 357 QLENTLSF 365

RESULT 18
US-10-433-465-103
Sequence 103, Application US/10433465
Publication No. US20040091479A1
GENERAL INFORMATION:
APPLICANT: Nieland, John
APPLICANT: Kaufmann, Andreas
APPLICANT: Kather, Angela
APPLICANT: Schinz, Manuela
TITLE OF INVENTION: T-Cell Epitopes of the Papillomavirus L1
FILE REFERENCE: Protein and E7 Protein and Their Use in Diagnosis and
Therapy
FILE REFERENCE: 50125/077001

CURRENT APPLICATION NUMBER: US/10/433,465
CURRENT FILING DATE: 2003-12-10
PRIOR APPLICATION NUMBER: PCT/EP01/14037
PRIOR FILING DATE: 2001-11-30
PRIOR APPLICATION NUMBER: DE 10059631.2
PRIOR FILING DATE: 2000-12-01
NUMBER OF SEQ ID NOS: 116
SOFTWARE: FaastSeq for Windows Version 4.0
SEQ ID NO 103
LENGTH: 17
TYPE: PRT
ORGANISM: Human papillomavirus
US-10-433-465-103

Query Match 88.6%; Score 39; DB 4; Length 17;
Best Local Similarity 100.0%; Pred. No. 1.7;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 LFLNTLSF 9
Db 1 LFLNTLSF 8

RESULT 19
US-10-433-091-72
Sequence 72, Application US/10433091
Publication No. US20040101533A1
GENERAL INFORMATION:
APPLICANT: MÜLLER, RAINER
APPLICANT: NIELAND, JOHN
APPLICANT: GABELSBERGER, JOSEF
APPLICANT: HERBST, RUTH
TITLE OF INVENTION: MEDICAMENT FOR PREVENTING OR TREATING TUMORS CAUSED BY
HUMAN PAPILLOMAVIRUS TYPE 18
FILE REFERENCE: 037067/0115
CURRENT APPLICATION NUMBER: US/10/433,091
CURRENT FILING DATE: 2003-11-25
PRIOR APPLICATION NUMBER: PCT/EP01/14038
PRIOR FILING DATE: 2001-11-30
PRIOR APPLICATION NUMBER: DE 100 59 630.4
PRIOR FILING DATE: 2000-12-01
NUMBER OF SEQ ID NOS: 72
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 72
LENGTH: 17
TYPE: PRT
ORGANISM: Human papillomavirus type 18
US-10-433-091-72

Query Match 88.6%; Score 39; DB 4; Length 17;
Best Local Similarity 100.0%; Pred. No. 1.7;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 LFLNTLSF 9
Db 1 LFLNTLSF 8

RESULT 20
US-10-800-023-28
Sequence 28, Application US/10800023
Publication No. US20040258688A1
GENERAL INFORMATION:
APPLICANT: Steinman, Ralph
APPLICANT: Nussenzweig, Michel
APPLICANT: Hawiger, Daniel
APPLICANT: Bonifaz, Laura
TITLE OF INVENTION: Enhanced Antigen Delivery and Modulation
of the Immune Response Therefrom
FILE REFERENCE: 600-1-081CONCIP1
CURRENT APPLICATION NUMBER: US/10/800,023
CURRENT FILING DATE: 2004-03-14
PRIOR APPLICATION NUMBER: 09/925,284

PRIOR FILING DATE: 2001-08-09
PRIOR APPLICATION NUMBER: 09/586,704
PRIOR FILING DATE: 2000-06-05
PRIOR APPLICATION NUMBER: PCT/US96/01383
PRIOR FILING DATE: 1996-01-31
PRIOR APPLICATION NUMBER: 08/381,528
PRIOR FILING DATE: 1995-01-31
NUMBER OF SEQ ID NOS: 37
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 28
LENGTH: 105
TYPE: PRT
ORGANISM: human papilloma virus E7 protein
US-10-800-023-28

Query Match 86.4%; Score 38; DB 5; Length 105;
Best Local Similarity 88.9%; Pred. No. 16;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 QLFNTLSF 9
DB 88 QLFNTLSF 96

RESULT 21

US-11-097-143-17562
Sequence 17562, Application US/11097143
Publication No. US20050208558A1
GENERAL INFORMATION:
APPLICANT: Venter, J. Craig
APPLICANT: et al.
TITLE OF INVENTION: DETECTION KIT, SUCH AS NUCLEIC ACID
TITLE OF INVENTION: ARRAYS, FOR DETECTING EXPRESSION OF 10,000 OR MORE
TITLE OF INVENTION: DROSOPHILA GENES.
FILE REFERENCE: CU000728
CURRENT APPLICATION NUMBER: US/11/097,143
CURRENT FILING DATE: 2005-04-04
PRIOR APPLICATION NUMBER: 60/157,832
PRIOR FILING DATE: 1999-10-05
PRIOR APPLICATION NUMBER: 60/160,191
PRIOR FILING DATE: 1999-10-19
PRIOR APPLICATION NUMBER: 60/161,932
PRIOR FILING DATE: 1999-10-28
PRIOR APPLICATION NUMBER: 60/164,769
PRIOR FILING DATE: 1999-11-12
PRIOR APPLICATION NUMBER: 60/173,383
PRIOR FILING DATE: 1999-12-28
PRIOR APPLICATION NUMBER: 60/175,693
PRIOR FILING DATE: 2000-01-12
PRIOR APPLICATION NUMBER: 60/184,831
PRIOR FILING DATE: 2000-02-24
PRIOR APPLICATION NUMBER: 60/191,637
PRIOR FILING DATE: 2000-03-23
NUMBER OF SEQ ID NOS: 43008
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 17562
LENGTH: 355
TYPE: PRT
ORGANISM: DROSOPHILA
US-11-097-143-17562

Query Match 81.8%; Score 36; DB 6; Length 355;
Best Local Similarity 87.5%; Pred. No. 1.3e+02;
Matches 7; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 2 LFLNTLSF 9
DB 110 LFLNTLSF 117

RESULT 22
US-10-432-465-115
Sequence 115, Application US/10432465

Publication No. US20040091479A1
GENERAL INFORMATION:
APPLICANT: Nieland, John
APPLICANT: Kautmann, Andreas
APPLICANT: Kautmann, Angela
APPLICANT: Schinz, Manuela
TITLE OF INVENTION: T-cell Epitopes of the Papillomavirus L1
TITLE OF INVENTION: Protein and E7 Protein and Their Use in Diagnosis and
TITLE OF INVENTION: Therapy
FILE REFERENCE: 50125/077001
CURRENT APPLICATION NUMBER: US/10/432,465
CURRENT FILING DATE: 2003-12-10
PRIOR APPLICATION NUMBER: PCT/EP01/14037
PRIOR FILING DATE: 2001-11-30
PRIOR APPLICATION NUMBER: DE 10059631.2
PRIOR FILING DATE: 2000-12-01
NUMBER OF SEQ ID NOS: 116
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 115
LENGTH: 9
TYPE: PRT
ORGANISM: Human papillomavirus
US-10-432-465-115

Query Match 77.3%; Score 34; DB 4; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.7e+06;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 QLFNTL 7
DB 3 QLFNTL 9

RESULT 23
US-10-751-845-149
Sequence 149, Application US/10751845
Publication No. US20050100928A1
GENERAL INFORMATION:
APPLICANT: Hedley, Mary Lynne
APPLICANT: Chicz, Roman M.
APPLICANT: Urban, Robert G.
TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES
FILE REFERENCE: 08191-013001
CURRENT APPLICATION NUMBER: US/10/751,845
CURRENT FILING DATE: 2004-01-05
PRIOR APPLICATION NUMBER: US/09/664,225
PRIOR FILING DATE: 2000-08-18
PRIOR APPLICATION NUMBER: US 60/169,846
PRIOR FILING DATE: 1999-12-09
PRIOR APPLICATION NUMBER: US 60/154,665
PRIOR FILING DATE: 1999-09-16
NUMBER OF SEQ ID NOS: 163
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 149
LENGTH: 9
TYPE: PRT
ORGANISM: Human Papilloma virus
US-10-751-845-149

Query Match 77.3%; Score 34; DB 5; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.7e+06;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 QLFNTL 7
DB 3 QLFNTL 9

RESULT 24
US-10-751-845-151
Sequence 151, Application US/10751845
Publication No. US20050100928A1
GENERAL INFORMATION:

APPLICANT: Hedley, Mary Lynne
APPLICANT: Urban, Robert G.
APPLICANT: Chic2, Roman M.
TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES
FILE REFERENCE: 08191-013001
CURRENT APPLICATION NUMBER: US/10/751,845
CURRENT FILING DATE: 2004-01-05
PRIOR APPLICATION NUMBER: US/09/664,225
PRIOR FILING DATE: 2000-08-18
PRIOR APPLICATION NUMBER: US 60/169,846
PRIOR FILING DATE: 1999-12-09
PRIOR APPLICATION NUMBER: JP 2002-229312
PRIOR FILING DATE: 2002-08-06
NUMBER OF SEQ ID NOS: 2086
SOFTWARE: PatentIn version 3.1
SEQ ID NO 151
LENGTH: 10
TYPE: PRT
ORGANISM: Human Papilloma virus
US-10-751-845-151

Query Match 77.3%; Score 34; DB 5; Length 10;
Best Local Similarity 100.0%; Pred. No. 8.8;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 QLFNTLSF 7
|||:||||
Db 4 QLFNTLSF 10

RESULT 25
US-10-437-963-186297
Sequence 186297, Application US/10437963
Publication No. US20040123343A1
GENERAL INFORMATION:
APPLICANT: La Rosa, Thomas J.
APPLICANT: Kovalic, David K.
APPLICANT: Zhou, Yihua
APPLICANT: Cao, Yongwei
APPLICANT: Wu, Wei
APPLICANT: Boukharov, Andrey A.
APPLICANT: Barbazuk, Brad
APPLICANT: Li, Ping
TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
FILE REFERENCE: 38-21(55221)B
CURRENT APPLICATION NUMBER: US/10/437,963
CURRENT FILING DATE: 2003-05-14
NUMBER OF SEQ ID NOS: 204966
SEQ ID NO 186297
LENGTH: 67
TYPE: PRT
ORGANISM: Oryza sativa
FEATURE:
NAME/KEY: unsure
LOCATION: (1)..(67)
OTHER INFORMATION: unsure at all Xaa locations
FEATURE:
OTHER INFORMATION: Clone ID: PAT_MRT4530_8310C.1.pcp
US-10-437-963-186297

Query Match 77.3%; Score 34; DB 4; Length 67;
Best Local Similarity 77.8%; Pred. No. 59;
Matches 7; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 QLFNTLSF 9
|||:||||
Db 29 QLFNTLSF 37

RESULT 26
US-10-631-467-839
Sequence 839, Application US/10631467

Publication No. US20050208496A1
GENERAL INFORMATION:
APPLICANT: Genox Research Inc.
TITLE OF INVENTION: Method for testing for broncheal asthma, or chronic obstructive p
FILE REFERENCE: 3462.1005-000
CURRENT APPLICATION NUMBER: US/10/631,467
CURRENT FILING DATE: 2003-07-31
PRIOR APPLICATION NUMBER: JP 2003-077212
PRIOR FILING DATE: 2003-03-20
PRIOR APPLICATION NUMBER: JP 2002-229312
PRIOR FILING DATE: 2002-08-06
NUMBER OF SEQ ID NOS: 2086
SOFTWARE: PatentIn version 3.1
SEQ ID NO 839
LENGTH: 252
TYPE: PRT
ORGANISM: Homo sapiens
US-10-631-467-839

Query Match 77.3%; Score 34; DB 5; Length 252;
Best Local Similarity 77.8%; Pred. No. 2.2e+02;
Matches 7; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 QLFNTLSF 9
|||:||||
Db 227 QLFNTLSF 235

RESULT 27
US-10-774-355A-2092
Sequence 2092, Application US/10774355A
Publication No. US20050043513A1
GENERAL INFORMATION:
APPLICANT: Firestein, Stuart
APPLICANT: Zhang, Ximin
TITLE OF INVENTION: MOUSE OLFACTORY RECEPTOR GENE SUPERFAMILY
FILE REFERENCE: A34570-PCT-USA-A 070050.2520
CURRENT APPLICATION NUMBER: US/10/774,355A
CURRENT FILING DATE: 2004-02-06
PRIOR APPLICATION NUMBER: PCT/US02/25556
PRIOR FILING DATE: 2002-08-09
PRIOR APPLICATION NUMBER: 60/311,159
PRIOR FILING DATE: 2001-08-09
PRIOR APPLICATION NUMBER: 60/339,694
PRIOR FILING DATE: 2001-12-12
NUMBER OF SEQ ID NOS: 2596
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 2092
LENGTH: 300
TYPE: PRT
ORGANISM: Mus musculus
US-10-774-355A-2092

Query Match 77.3%; Score 34; DB 5; Length 300;
Best Local Similarity 87.5%; Pred. No. 2.6e+02;
Matches 7; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 2 LFLNTLSF 9
|||:||||
Db 60 LFLNTLSF 67

RESULT 28
US-10-369-493-9735
Sequence 9735, Application US/10369493
Publication No. US20030233675A1
GENERAL INFORMATION:
APPLICANT: Cao, Yongwei
APPLICANT: Hinkle, Gregory J.
APPLICANT: Slater, Steven C.
APPLICANT: Goldman, Barry S.
APPLICANT: Chen, Xianfeng

;; TITLE OF INVENTION: EXPRESSION OF MICROBIAL PROTEINS IN PLANTS FOR PRODUCTION OF
;; FILE REFERENCE: 38-10(52052)B
;; CURRENT APPLICATION NUMBER: US/10/369,493
;; CURRENT FILING DATE: 2003-02-28
;; PRIOR APPLICATION NUMBER: US 60/360,039
;; PRIOR FILING DATE: 2002-02-21
;; NUMBER OF SEQ ID NOS: 47374
;; SEQ ID NO 9735
;; LENGTH: 442
;; TYPE: PRT
;; ORGANISM: Desulfitobacterium hafnense
US-10-369-493-9735

Query Match 77.3%; Score 34; DB 4; Length 442;
Best Local Similarity 77.8%; Pred. No. 3.9e+02;
Matches 7; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 QLFNTLSF 9
Db 12 KLFNTLSF 20

RESULT 29
US-10-156-761-8691
;; Sequence 8691, Application US/10156761
;; Publication No. US20030119018A1
;; GENERAL INFORMATION:
;; APPLICANT: OMURA, SATOSHI
;; APPLICANT: IKEDA, HARUO
;; APPLICANT: ISHIKAWA, JUN
;; APPLICANT: HORIKAWA, HIROSHI
;; APPLICANT: SHIBA, TADAYOSHI
;; APPLICANT: SAKAKI, YOSHITAKI
;; APPLICANT: HATTORI, MASAHIRA
;; TITLE OF INVENTION: NOVEL POLYNUCLEOTIDES
;; FILE REFERENCE: 249-262
;; CURRENT APPLICATION NUMBER: US/10/156,761
;; CURRENT FILING DATE: 2002-05-29
;; PRIOR APPLICATION NUMBER: JP 2001-204089
;; PRIOR FILING DATE: 2001-05-30
;; PRIOR APPLICATION NUMBER: JP 2001-272697
;; PRIOR FILING DATE: 2001-08-02
;; NUMBER OF SEQ ID NOS: 15109
;; SEQ ID NO 8691
;; LENGTH: 497
;; TYPE: PRT
;; ORGANISM: Streptomyces avermitilis
US-10-156-761-8691

Query Match 77.3%; Score 34; DB 4; Length 497;
Best Local Similarity 87.5%; Pred. No. 4.4e+02;
Matches 7; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 QLFNTLS 8
Db 327 QLFNTLS 334

RESULT 30
US-10-437-963-197312
;; Sequence 197312, Application US/10437963
;; Publication No. US20040123343A1
;; GENERAL INFORMATION:
;; APPLICANT: La Rosa, Thomas J.
;; APPLICANT: Kovalic, David K.
;; APPLICANT: Zhou, Yihua
;; APPLICANT: Cao, Yongwei
;; APPLICANT: Wu, Wei
;; APPLICANT: Boukharov, Andrey A.
;; APPLICANT: Barbazuk, Brad
;; APPLICANT: Li, Ping
;; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With

;; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
;; FILE REFERENCE: 38-21(53221)B
;; CURRENT APPLICATION NUMBER: US/10/437,963
;; CURRENT FILING DATE: 2003-05-14
;; NUMBER OF SEQ ID NOS: 204966
;; SEQ ID NO 197312
;; LENGTH: 520
;; TYPE: PRT
;; ORGANISM: Oryza sativa
;; FEATURE:
;; OTHER INFORMATION: Clone ID: PAT_MRT4530_93081C.1.pep
US-10-437-963-197312

Query Match 77.3%; Score 34; DB 4; Length 520;
Best Local Similarity 77.8%; Pred. No. 4.6e+02;
Matches 7; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 QLFNTLSF 9
Db 346 QLFNTLSM 354

RESULT 31
US-10-425-115-283550
;; Sequence 283550, Application US/10425115
;; Publication No. US20040214272A1
;; GENERAL INFORMATION:
;; APPLICANT: La Rosa, Thomas J.
;; APPLICANT: Kovalic, David K.
;; APPLICANT: Zhou, Yihua
;; APPLICANT: Cao, Yongwei
;; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
;; FILE REFERENCE: 38-21(53222)B
;; CURRENT APPLICATION NUMBER: US/10/425,115
;; CURRENT FILING DATE: 2003-04-28
;; NUMBER OF SEQ ID NOS: 369326
;; SEQ ID NO 283550
;; LENGTH: 131
;; TYPE: PRT
;; ORGANISM: Zea mays
;; FEATURE:
;; NAME/KEY: unsure
;; LOCATION: (1)..(131)
;; OTHER INFORMATION: unsure at all Xaa locations
;; FEATURE:
;; OTHER INFORMATION: Clone ID: MRT4577_21698C.1.pep
US-10-425-115-283550

Query Match 75.0%; Score 33; DB 4; Length 131;
Best Local Similarity 75.0%; Pred. No. 1.8e+02;
Matches 6; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 1 QLFNTLS 8
Db 93 QLFNTLS 100

RESULT 32
US-10-282-122A-54564
;; Sequence 54564, Application US/10282122A
;; Publication No. US20040029129A1
;; GENERAL INFORMATION:
;; APPLICANT: Wang, Liangsu
;; APPLICANT: Zamudio, Carlos
;; APPLICANT: Malone, Cheryl
;; APPLICANT: Haselbeck, Robert
;; APPLICANT: Ohlsen, Kari
;; APPLICANT: Zykkind, Judith
;; APPLICANT: Wall, Daniel
;; APPLICANT: Trawick, John
;; APPLICANT: Carr, Grant
;; APPLICANT: Yamamoto, Robert

```

; APPLICANT: Foreyth, R.
; TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
; FILE REFERENCE: ELITPA.034A
; CURRENT APPLICATION NUMBER: US/10/282,122A
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: 60/191,078
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: 60/206,848
; PRIOR FILING DATE: 2000-05-23
; PRIOR APPLICATION NUMBER: 60/207,727
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: 60/230,335
; PRIOR FILING DATE: 2000-09-06
; PRIOR APPLICATION NUMBER: 60/230,347
; PRIOR FILING DATE: 2000-09-09
; PRIOR APPLICATION NUMBER: 60/242,578
; PRIOR FILING DATE: 2000-10-23
; PRIOR APPLICATION NUMBER: 60/253,625
; PRIOR FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: 60/257,931
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: 60/267,636
; PRIOR FILING DATE: 2001-02-09
; PRIOR APPLICATION NUMBER: 60/269,308
; PRIOR FILING DATE: 2001-02-16
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 78614
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 54564
; LENGTH: 239
; TYPE: PRT
; ORGANISM: Campylobacter jejuni
US-10-282-122A-54564
```

```

Query Match
Best Local Similarity 75.0%; Score 33; DB 4; Length 239;
Matches 6; Conservative 2; Mismatches 0; Indels 0; Gaps 0;
```

```

QY      - 2 LFLNTLSF 9
DB      178 LFLNTLSY 185

RESULT 33
US-10-151-832-6
; Sequence 6, Application US/10151832
; Publication No. US20030008368A1
; GENERAL INFORMATION:
; APPLICANT: Allen, Stephen M.
; APPLICANT: Falco, Carl S.
; APPLICANT: Tarczynski, Mitchell
; TITLE OF INVENTION: Serine O-Acetyltransferase
; FILE REFERENCE: BB1514
; CURRENT APPLICATION NUMBER: US/10/151,832
; PRIOR FILING DATE: 2002-05-21
; PRIOR APPLICATION NUMBER: 60/292,411
; PRIOR FILING DATE: 2001-05-21
; NUMBER OF SEQ ID NOS: 9
; SOFTWARE: Microsoft Office 97
; SEQ ID NO 6
; LENGTH: 289
; TYPE: PRT
; ORGANISM: Allium cepa
US-10-151-832-6
```

```

Query Match
Best Local Similarity 75.0%; Score 33; DB 4; Length 289;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```

RESULT 34
US-10-986-427-6
; Sequence 6, Application US/10986427
; Publication No. US20050125856A1
; GENERAL INFORMATION:
; APPLICANT: Allen, Stephen M.
; APPLICANT: Falco, Carl S.
; APPLICANT: Tarczynski, Mitchell
; TITLE OF INVENTION: Serine O-Acetyltransferase
; FILE REFERENCE: BB1514
; CURRENT APPLICATION NUMBER: US/10/986,427
; PRIOR FILING DATE: 2004-11-10
; PRIOR APPLICATION NUMBER: US/10/151,832
; PRIOR FILING DATE: 2002-05-21
; PRIOR APPLICATION NUMBER: 60/292,411
; PRIOR FILING DATE: 2001-05-21
; NUMBER OF SEQ ID NOS: 9
; SOFTWARE: Microsoft Office 97
; SEQ ID NO 6
; LENGTH: 289
; TYPE: PRT
; ORGANISM: Allium cepa
US-10-986-427-6
```

```

Query Match
Best Local Similarity 75.0%; Score 33; DB 5; Length 289;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```

QY      2 LFLNTLS 8
DB      80 LFLNTLS 86

RESULT 35
US-09-738-626-6150
; Sequence 6150, Application US/09738626
; Publication No. US20020197605A1
; GENERAL INFORMATION:
; APPLICANT: NAKAGAWA, SATOSHI
; APPLICANT: MIZOGUCHI, HIROSHI
; APPLICANT: ANDO, SEIKO
; APPLICANT: HAYASHI, MIKIRO
; APPLICANT: OCHIAI, KEIKO
; APPLICANT: YOKOI, HARUHIKO
; APPLICANT: TATEISHI, NAOKO
; APPLICANT: SENOH, AKIHIRO
; APPLICANT: IKEDA, MASATO
; APPLICANT: OZAKI, AKIO
; TITLE OF INVENTION: NOVEL POLYNUCLEOTIDES
; FILE REFERENCE: 249-125
; CURRENT APPLICATION NUMBER: US/09/738,626
; PRIOR FILING DATE: 2000-12-18
; PRIOR APPLICATION NUMBER: JP 99/377484
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: JP 00/159162
; PRIOR FILING DATE: 2000-04-07
; PRIOR APPLICATION NUMBER: JP 00/280988
; PRIOR FILING DATE: 2000-08-03
; NUMBER OF SEQ ID NOS: 7059
; SOFTWARE: PatentIn ver. 3.0
; SEQ ID NO 6150
; LENGTH: 449
; TYPE: PRT
; ORGANISM: Corynebacterium glutamicum
US-09-738-626-6150
```

```

Query Match
Best Local Similarity 75.0%; Score 33; DB 3; Length 449;
Matches 7; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
```

Db 354 QLFINDTLS 361

```
RESULT 36
US-10-437-963-148574
; Sequence 148574, Application US/10437963
; Publication No. US2004012343A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; APPLICANT: Wu, Wei
; APPLICANT: Boukharov, Andrey A.
; APPLICANT: Barbazov, Bred
; APPLICANT: Li, Ping
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53221)B
; CURRENT APPLICATION NUMBER: US/10/437,963
; CURRENT FILING DATE: 2003-05-14
; NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 148574
; LENGTH: 845
; TYPE: PRT
; ORGANISM: Oryza sativa
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)..(845)
; OTHER INFORMATION: unsure at all Xaa locations
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT4530_48992C.1.pep
US-10-437-963-148574
```

```
Query Match 75.0%; Score 33; DB 4; Length 845;
Best Local Similarity 75.0%; Pred. No. 1.2e+03;
Matches 6; Conservative 2; Mismatches 0; Indels 0; Gaps 0;
```

QY 1 QLFINDTLS 8
Db 198 QVINDTLS 205

```
RESULT 37
US-10-424-599-214588
; Sequence 214588, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J
; APPLICANT: Kovalic, David K
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 214588
; LENGTH: 1668
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_357C.1.pep
US-10-424-599-214588
```

```
Query Match 75.0%; Score 33; DB 4; Length 1668;
Best Local Similarity 100.0%; Pred. No. 2.3e+03;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

QY 2 LFLINDTLS 8
|||||

Db 967 LFLINDTLS 973

```
RESULT 38
US-10-447-161-145
; Sequence 145, Application US/10447161
; Publication No. US20040023314A1
; GENERAL INFORMATION:
; APPLICANT: Wang, Rong-fu
; TITLE OF INVENTION: Mutant Fibronectin and Tumor Metastasis
; FILE REFERENCE: HO-P02484US1
; CURRENT APPLICATION NUMBER: US/10/447,161
; CURRENT FILING DATE: 2003-05-28
; PRIOR APPLICATION NUMBER: 60/383,530
; PRIOR FILING DATE: 2002-05-28
; NUMBER OF SEQ ID NOS: 148
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 145
; LENGTH: 13
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Peptide
US-10-447-161-145
```

```
Query Match 72.7%; Score 32; DB 4; Length 13;
Best Local Similarity 75.0%; Pred. No. 27;
Matches 6; Conservative 2; Mismatches 0; Indels 0; Gaps 0;
```

QY 2 LFLINDTLS 9
Db 1 LFLINDTLS 8

```
RESULT 39
US-10-425-115-223059
; Sequence 223059, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants
; FILE REFERENCE: 38-21(53222)B
; CURRENT APPLICATION NUMBER: US/10/425,115
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 223059
; LENGTH: 52
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: MRT4577_135018C.1.pep
US-10-425-115-223059
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Query Match 72.7%; Score 32; DB 4; Length 52;
Best Local Similarity 75.0%; Pred. No. 1.1e+02;
Matches 6; Conservative 2; Mismatches 0; Indels 0; Gaps 0;
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QY 2 LFLINDTLS 9
Db 17 VFLINDTLS 24

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RESULT 40
US-09-833-245-1051
; Sequence 1051, Application US/09833245
; Publication No. US20040010134A1
; GENERAL INFORMATION:
; APPLICANT: Human Genome Sciences, Inc.
; TITLE OF INVENTION: Albumin Fusion Proteins
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FILE REFERENCE: PF546PCT
CURRENT APPLICATION NUMBER: US/09/833,245
CURRENT FILING DATE: 2001-04-12
PRIOR APPLICATION NUMBER: 60/229, 358
PRIOR FILING DATE: 2000-04-12
PRIOR APPLICATION NUMBER: 60/256, 931
PRIOR FILING DATE: 2000-12-21
PRIOR APPLICATION NUMBER: 60/199, 384
PRIOR FILING DATE: 2000-04-25
NUMBER OF SEQ ID NOS: 2267
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 1051
LENGTH: 63
TYPE: PRT
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: SITE
LOCATION: (54)
OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
US-09-833-245-1051

Query Match 72.7%; Score 32; DB 3; Length 63;
Best Local Similarity 77.8%; Pred. No. 1.3e+02;
Matches 7; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 QLFNTLSF 9
Db 8 QRFNLTLSF 16

RESULT 41
US-09-833-245-1052
Sequence 1052, Application US/09833245
Publication No. US20040010134A1
GENERAL INFORMATION:
APPLICANT: Human Genome Sciences, Inc.
TITLE OF INVENTION: Albumin Fusion Proteins
FILE REFERENCE: PF546PCT
CURRENT APPLICATION NUMBER: US/09/833,245
CURRENT FILING DATE: 2001-04-12
PRIOR APPLICATION NUMBER: 60/229, 358
PRIOR FILING DATE: 2000-04-12
PRIOR APPLICATION NUMBER: 60/256, 931
PRIOR FILING DATE: 2000-12-21
PRIOR APPLICATION NUMBER: 60/199, 384
PRIOR FILING DATE: 2000-04-25
NUMBER OF SEQ ID NOS: 2267
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 1052
LENGTH: 63
TYPE: PRT
ORGANISM: Homo sapiens
US-09-833-245-1052

Query Match 72.7%; Score 32; DB 3; Length 63;
Best Local Similarity 77.8%; Pred. No. 1.3e+02;
Matches 7; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 QLFNTLSF 9
Db 8 QRFNLTLSF 16

RESULT 42
US-10-424-599-190864
Sequence 190864, Application US/10424599
Publication No. US20040031072A1
GENERAL INFORMATION:
APPLICANT: La Rosa, Thomas J.
APPLICANT: Kovalic, David K.
APPLICANT: Zhou, Yihua
APPLICANT: Cao, Yongwei
TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With

TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
FILE REFERENCE: 38-21(53223)B
CURRENT APPLICATION NUMBER: US/10/424,599
CURRENT FILING DATE: 2003-04-28
NUMBER OF SEQ ID NOS: 285684
SEQ ID NO 190864
LENGTH: 103
TYPE: PRT
ORGANISM: Glycine max
FEATURE:
OTHER INFORMATION: Clone ID: PAT_MRT3847_1436C.1.pep
US-10-424-599-190864

Query Match 72.7%; Score 32; DB 4; Length 103;
Best Local Similarity 75.0%; Pred. No. 2.2e+02;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 2 LFLNTLSF 9
Db 11 LFLNTLSF 18

RESULT 43
US-10-437-963-124750
Sequence 124750, Application US/10437963
Publication No. US20040123343A1
GENERAL INFORMATION:
APPLICANT: La Rosa, Thomas J.
APPLICANT: Kovalic, David K.
APPLICANT: Zhou, Yihua
APPLICANT: Cao, Yongwei
APPLICANT: Wu, Wei
APPLICANT: Boukharov, Andrey A.
APPLICANT: Bardazuk, Brad
APPLICANT: Li, Ping
TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
FILE REFERENCE: 38-21(53221)B
CURRENT APPLICATION NUMBER: US/10/437,963
CURRENT FILING DATE: 2003-05-14
NUMBER OF SEQ ID NOS: 204966
SEQ ID NO 124750
LENGTH: 223
TYPE: PRT
ORGANISM: Oryza sativa
FEATURE:
OTHER INFORMATION: Clone ID: PAT_MRT4530_27459C.1.pep
US-10-437-963-124750

Query Match 72.7%; Score 32; DB 4; Length 223;
Best Local Similarity 75.0%; Pred. No. 4.7e+02;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 2 LFLNTLSF 9
Db 173 MFLNTLSF 180

RESULT 44
US-09-919-497-71
Sequence 71, Application US/09919497
Patent No. US2002010662A1
GENERAL INFORMATION:
APPLICANT: Mutter, George L.
TITLE OF INVENTION: PROGNOSTIC CLASSIFICATION OF ENDOMETRIAL CANCER
FILE REFERENCE: B0801/7225
CURRENT APPLICATION NUMBER: US/09/919,497
CURRENT FILING DATE: 2001-07-31
PRIOR APPLICATION NUMBER: US 60/221,735
PRIOR FILING DATE: 2000-07-31
NUMBER OF SEQ ID NOS: 100
SOFTWARE: PatentIn version 3.0
SEQ ID NO 71

LENGTH: 292
TYPE: PRT
ORGANISM: Homo sapiens
US-09-919-497-71

Query Match 72.7%; Score 32; DB 3; Length 292;
Best Local Similarity 87.5%; Pred. No. 6.1e+02;
Matches 7; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2 LFNLTLSF 9
DB 280 LFNLTLSF 287

RESULT 45
US-10-767-701-42506
Sequence 42506, Application US/10767701
Publication No. US20040172684A1
GENERAL INFORMATION:
APPLICANT: Kovalic, David K.
APPLICANT: Zhou, Yihua
TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
FILE REFERENCE: 38-21(53535)B
CURRENT APPLICATION NUMBER: US/10/767,701
CURRENT FILING DATE: 2004-01-29
NUMBER OF SEQ ID NOS: 63128
SEQ ID NO 42506
LENGTH: 339
TYPE: PRT
ORGANISM: Sorghum bicolor
FEATURE:
OTHER INFORMATION: Clone ID: SORBI-28MAY03-C60893_1.pep
US-10-767-701-42506

Query Match 72.7%; Score 32; DB 4; Length 339;
Best Local Similarity 75.0%; Pred. No. 7.1e+02;
Matches 6; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 1 QLFINTLS 8
DB 83 KIFINTLS 90

RESULT 46
US-10-425-115-239449
Sequence 239449, Application US/10425115
Publication No. US20040214272A1
GENERAL INFORMATION:
APPLICANT: La Rosa, Thomas J.
APPLICANT: Kovalic, David K.
APPLICANT: Zhou, Yihua
TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
FILE REFERENCE: 38-21(53222)B
CURRENT APPLICATION NUMBER: US/10/425,115
CURRENT FILING DATE: 2003-04-28
NUMBER OF SEQ ID NOS: 369326
SEQ ID NO 239449
LENGTH: 352
TYPE: PRT
ORGANISM: Zea mays
FEATURE:
NAME/KEY: unsure
LOCATION: (1) (352)
OTHER INFORMATION: unsure at all Xaa locations
FEATURE:
OTHER INFORMATION: Clone ID: MRT4577_149963C.1.pep
US-10-425-115-239449

Query Match 72.7%; Score 32; DB 4; Length 352;

Best Local Similarity 75.0%; Pred. No. 7.4e+02;
Matches 6; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 1 QLFINTLS 8
DB 96 KIFINTLS 103

RESULT 47
US-10-739-930-5902
Sequence 5902, Application US/10739930
Publication No. US20040216190A1
GENERAL INFORMATION:
APPLICANT: Kovalic, David K.
TITLE OF INVENTION: NUCLEIC ACID MOLECULES AND OTHER MOLECULES ASSOCIATED WITH
FILE REFERENCE: 38-21(53377)B
CURRENT APPLICATION NUMBER: US/10/739,930
CURRENT FILING DATE: 2003-12-18
NUMBER OF SEQ ID NOS: 11088
SEQ ID NO 5902
LENGTH: 1067
TYPE: PRT
ORGANISM: Arabidopsis thaliana
FEATURE:
OTHER INFORMATION: Clone ID: ARATH-23APR03-C17941_1.p
US-10-739-930-5902

Query Match 72.7%; Score 32; DB 5; Length 1067;
Best Local Similarity 75.0%; Pred. No. 2.2e+03;
Matches 6; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 1 QLFINTLS 8
DB 160 QLFINTLS 167

RESULT 48
US-10-425-115-315761
Sequence 315761, Application US/10425115
Publication No. US20040214272A1
GENERAL INFORMATION:
APPLICANT: La Rosa, Thomas J.
APPLICANT: Kovalic, David K.
APPLICANT: Zhou, Yihua
TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
FILE REFERENCE: 38-21(53222)B
CURRENT APPLICATION NUMBER: US/10/425,115
CURRENT FILING DATE: 2003-04-28
NUMBER OF SEQ ID NOS: 369326
SEQ ID NO 315761
LENGTH: 44
TYPE: PRT
ORGANISM: Zea mays
FEATURE:
OTHER INFORMATION: Clone ID: MRT4577_51046C.1.pep
US-10-425-115-315761

Query Match 70.5%; Score 31; DB 4; Length 44;
Best Local Similarity 75.0%; Pred. No. 1.4e+02;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 2 LFNLTLSF 9
DB 26 LFNLTLSF 33

RESULT 49
US-10-424-599-223717
Sequence 223717, Application US/10424599
Publication No. US20040031072A1

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/ GENERAL INFORMATION:
/ APPLICANT: La Rosa Thomas J
/ APPLICANT: Kovalic David K
/ APPLICANT: Zhou Yihua
/ APPLICANT: Cao Yongwei
/ TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
/ TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
/ FILE REFERENCE: 38-21(53223)B
/ CURRENT APPLICATION NUMBER: US/10/424,599
/ NUMBER OF SEQ ID NOS: 285684
/ SEQ ID NO 223717
/ LENGTH: 58
/ TYPE: PRT
/ ORGANISM: Glycine max
/ FEATURE:
/ NAME/KEY: unsure
/ LOCATION: (1)..(58)
/ OTHER INFORMATION: unsure at all Xaa locations
/ FEATURE:
/ OTHER INFORMATION: Clone ID: PAT_MRT3847_44046C.1.pep
US-10-424-599-223717
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Query Match          70.5%; Score 31; DB 4; Length 58;
Best Local Similarity 85.7%; Pred. No. 1.9e+02;
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
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QY      3 PLNTLSF 9
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DB       7 PLNTLSF 13
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RESULT 50
US-10-425-115-345615
/ Sequence 345615, Application US/10425115
/ Publication No. US20040214272A1
/ GENERAL INFORMATION:
/ APPLICANT: La Rosa, Thomas J.
/ APPLICANT: Kovalic, David K.
/ APPLICANT: Zhou, Yihua
/ APPLICANT: Cao, Yongwei
/ TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
/ TITLE OF INVENTION: Plants
/ FILE REFERENCE: 38-21(53223)B
/ CURRENT APPLICATION NUMBER: US/10/425,115
/ CURRENT FILING DATE: 2003-04-28
/ NUMBER OF SEQ ID NOS: 369326
/ SEQ ID NO 345615
/ LENGTH: 61
/ TYPE: PRT
/ ORGANISM: Zea mays
/ FEATURE:
/ OTHER INFORMATION: Clone ID: MRT4577_7836C.1.pep
US-10-425-115-345615
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Query Match          70.5%; Score 31; DB 4; Length 61;
Best Local Similarity 75.0%; Pred. No. 2e+02;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
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QY      2 PLNTLSF 9
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DB       51 LYNTLMF 58
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Search completed: May 5, 2006, 07:44:11
Job time : 72.2 secs

GenCore version 5.1.7
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OW protein - protein search, using SW model

Run on: May 5, 2006, 07:32:07 ; Search time 18.4 Seconds
(Without alignments)
22.639 Million cell updates/sec

Title: US-08-170-344-32
Perfect score: 44
Sequence: 1 QLFNTLSF 9

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 235405 seqs, 46284737 residues
Total number of hits satisfying chosen parameters: 235405

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 1000 summaries

Database :
1: /SID55/ptodata/1/pubppaa/US08_NEW_PUB.pep1.*
2: /SID55/ptodata/1/pubppaa/US06_NEW_PUB.pep.*
3: /SID55/ptodata/1/pubppaa/US07_NEW_PUB.pep.*
4: /SID55/ptodata/1/pubppaa/US08_NEW_PUB.pep.*
5: /SID55/ptodata/1/pubppaa/ECT_NEW_PUB.pep.*
6: /SID55/ptodata/1/pubppaa/US09_NEW_PUB.pep.*
7: /SID55/ptodata/1/pubppaa/US09_NEW_PUB.pep1.*
8: /SID55/ptodata/1/pubppaa/US10_NEW_PUB.pep.*
9: /SID55/ptodata/1/pubppaa/US10_NEW_PUB.pep1.*
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Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	44	100.0	15	US-10-530-061-1718	Sequence 1718, Ap
2	44	100.0	15	US-10-530-061-1719	Sequence 1719, Ap
3	44	100.0	105	US-10-530-253-27	Sequence 27, Appl
4	39	88.6	8	US-10-530-061-864	Sequence 864, App
5	39	88.6	15	US-10-530-061-1729	Sequence 1729, Ap
6	39	88.6	15	US-10-530-061-1730	Sequence 1730, Ap
7	39	88.6	106	US-10-530-253-32	Sequence 32, Appl
8	37	84.1	107	US-10-530-253-37	Sequence 37, Appl
9	34	77.3	8	US-10-530-061-865	Sequence 865, App
10	33	75.0	449	US-10-703-799B-42	Sequence 42, Appl
11	33	75.0	690	US-11-188-298-4363	Sequence 4363, Ap
12	32	72.7	63	US-11-264-096-1051	Sequence 1052, Ap
13	32	72.7	63	US-11-264-096-1052	Sequence 1052, Ap
14	32	72.7	759	US-11-188-298-887	Sequence 887, App
15	31	70.5	49	US-10-467-657-3932	Sequence 3932, App
16	31	70.5	302	US-10-793-626-2980	Sequence 2980, Ap
17	31	70.5	324	US-10-511-314-19	Sequence 19, Appl
18	31	70.5	324	US-10-511-722-19	Sequence 20, Appl
19	31	70.5	396	US-11-302-262-20	Sequence 76, Appl
20	31	70.5	396	US-11-114-922-76	Sequence 175, App
21	31	70.5	467	US-10-511-989-175	

22	31	70.5	509	11	US-11-188-298-4397	Sequence 4397, Ap
23	31	70.5	534	11	US-11-188-298-19555	Sequence 19555, A
24	31	70.5	566	9	US-10-491-468-21	Sequence 21, Appl
25	31	70.5	580	11	US-11-188-298-20169	Sequence 20169, A
26	31	70.5	666	11	US-11-188-298-9051	Sequence 9051, Ap
27	31	70.5	795	9	US-10-821-234-1002	Sequence 1002, Ap
28	30	68.2	110	9	US-10-530-253-38	Sequence 38, Appl
29	30	68.2	114	11	US-11-096-568A-3886	Sequence 3886, Ap
30	30	68.2	172	11	US-11-096-568A-3885	Sequence 3885, Ap
31	30	68.2	186	11	US-11-096-568A-3884	Sequence 3884, Ap
32	30	68.2	242	11	US-11-188-298-4176	Sequence 4176, Ap
33	30	68.2	356	11	US-11-087-099-6581	Sequence 6581, Ap
34	30	68.2	401	11	US-11-096-568A-23125	Sequence 23125, A
35	30	68.2	403	11	US-11-096-568A-21885	Sequence 21885, A
36	30	68.2	410	11	US-11-188-298-21499	Sequence 21499, A
37	30	68.2	419	11	US-11-188-298-13229	Sequence 13229, A
38	30	68.2	420	11	US-11-188-298-4066	Sequence 4066, Ap
39	30	68.2	420	11	US-11-188-298-12182	Sequence 8750, Ap
40	30	68.2	424	11	US-11-188-298-13282	Sequence 13282, A
41	30	68.2	424	11	US-11-188-298-2128	Sequence 2128, Ap
42	30	68.2	424	11	US-11-188-298-2128	Sequence 2128, Ap
43	30	68.2	424	11	US-11-188-298-12182	Sequence 12182, A
44	30	68.2	425	11	US-11-188-298-5065	Sequence 5065, Ap
45	30	68.2	426	11	US-11-096-568A-21884	Sequence 21884, A
46	30	68.2	426	11	US-11-188-298-16046	Sequence 16046, A
47	30	68.2	468	11	US-11-096-568A-21883	Sequence 21883, A
48	30	68.2	493	8	US-10-505-928-167	Sequence 167, App
49	30	68.2	514	11	US-11-079-463-9784	Sequence 9784, Ap
50	30	68.2	515	11	US-11-188-298-1441	Sequence 1441, Ap
51	30	68.2	526	11	US-11-188-298-1441	Sequence 23123, A
52	30	68.2	543	11	US-11-188-298-1538	Sequence 1538, Ap
53	30	68.2	543	11	US-11-188-298-1538	Sequence 1538, Ap
54	30	68.2	553	11	US-11-188-298-19512	Sequence 4208, Ap
55	30	68.2	559	11	US-11-096-568A-33313	Sequence 33313, A
56	30	68.2	598	11	US-11-198-640A-2	Sequence 2, Appl1
57	30	68.2	645	11	US-11-188-298-2327	Sequence 8317, Ap
58	30	68.2	646	11	US-11-079-463-8511	Sequence 8511, Ap
59	30	68.2	659	11	US-11-045-004-2524	Sequence 2524, Ap
60	30	68.2	752	11	US-11-087-099-11884	Sequence 11884, A
61	30	68.2	798	11	US-11-096-568A-31861	Sequence 31861, A
62	30	68.2	816	9	US-10-216-161A-375	Sequence 375, App
63	29	65.9	40	9	US-10-895-064-2278	Sequence 2278, Ap
64	29	65.9	40	11	US-11-129-741-2278	Sequence 2278, Ap
65	29	65.9	109	9	US-10-530-253-31	Sequence 31, Appl
66	29	65.9	120	11	US-11-072-512-2133	Sequence 2133, Ap
67	29	65.9	231	11	US-11-096-568A-2876	Sequence 2876, Ap
68	29	65.9	274	11	US-11-096-568A-2875	Sequence 2875, Ap
69	29	65.9	274	11	US-11-096-568A-2875	Sequence 2877, Ap
70	29	65.9	274	11	US-11-096-568A-6514	Sequence 6514, Ap
71	29	65.9	315	11	US-11-096-568A-19690	Sequence 19690, A
72	29	65.9	334	11	US-11-096-568A-19689	Sequence 19689, A
73	29	65.9	335	9	US-10-194-487-174	Sequence 174, App
74	29	65.9	335	9	US-10-195-883-174	Sequence 174, App
75	29	65.9	335	9	US-10-195-888-174	Sequence 174, App
76	29	65.9	335	9	US-10-195-889-174	Sequence 174, App
77	29	65.9	335	11	US-11-090-129-2	Sequence 22, Appl
78	29	65.9	342	11	US-11-188-298-4673	Sequence 4673, Ap
79	29	65.9	360	11	US-11-096-568A-2874	Sequence 2874, Ap
80	29	65.9	372	11	US-11-096-568A-6513	Sequence 6513, Ap
81	29	65.9	372	11	US-11-188-298-7400	Sequence 7400, Ap
82	29	65.9	400	11	US-11-096-568A-6512	Sequence 6512, Ap
83	29	65.9	440	11	US-11-096-568A-10923	Sequence 10923, A
84	29	65.9	440	11	US-11-096-568A-24743	Sequence 24743, A
85	29	65.9	636	9	US-10-467-657-1856	Sequence 1856, Ap
86	29	65.9	636	9	US-10-194-487-22	Sequence 22, Appl
87	29	65.9	636	9	US-10-195-883-32	Sequence 22, Appl
88	29	65.9	636	9	US-10-195-888-22	Sequence 22, Appl
89	29	65.9	738	11	US-11-188-298-2319	Sequence 2319, Ap
90	29	65.9	738	11	US-11-188-298-15137	Sequence 15137, A
91	29	65.9	743	11	US-11-045-004-2016	Sequence 2016, Ap
92	29	65.9	744	11	US-11-188-298-8609	Sequence 8609, Ap
93	29	65.9	744	11	US-11-188-298-19127	Sequence 19127, A
94	29	65.9	744	11	US-11-188-298-19127	

95	29	65.9	747	11	US-11-188-298-17849	Sequence 17849, A	168	27	61.4	452	11	US-11-098-686-10937	Sequence 10937, A
96	29	65.9	749	11	US-11-188-298-10526	Sequence 10526, A	169	27	61.4	459	11	US-11-087-039-3410	Sequence 3410, A
97	29	65.9	892	11	US-11-237-600-4	Sequence 4, App1	170	27	61.4	459	11	US-11-087-039-4535	Sequence 4535, A
98	28	63.6	62	9	US-10-467-657-6646	Sequence 6646, Ap	171	27	61.4	459	11	US-11-188-298-4195	Sequence 4195, Ap
99	28	63.6	65	9	US-10-895-064-482	Sequence 482, App	172	27	61.4	459	11	US-11-188-298-14211	Sequence 14211, A
100	28	63.6	65	11	US-11-129-741-482	Sequence 482, App	173	27	61.4	531	11	US-11-188-298-19615	Sequence 19615, A
101	28	63.6	99	11	US-11-079-463-7446	Sequence 7446, Ap	174	27	61.4	541	11	US-11-000-463-238	Sequence 238, App
102	28	63.6	207	11	US-11-205-667-2	Sequence 2, App1	175	27	61.4	548	11	US-11-188-298-10840	Sequence 10840, A
103	28	63.6	225	11	US-11-096-568A-16374	Sequence 16374, A	176	27	61.4	558	11	US-11-096-568A-25748	Sequence 25748, A
104	28	63.6	234	11	US-11-004-399-3166	Sequence 3166, Ap	177	27	61.4	603	11	US-11-096-568A-25747	Sequence 25747, A
105	28	63.6	223	9	US-10-506-454-468	Sequence 468, App	178	27	61.4	651	11	US-11-096-568A-29862	Sequence 29862, A
106	28	63.6	232	11	US-11-188-298-974	Sequence 974, App	179	27	61.4	671	11	US-11-188-298-9026	Sequence 9026, Ap
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125	28	63.6	799	11	US-11-098-686-11030	Sequence 11030, A	198	27	61.4	2221	11	US-11-126-313-30	Sequence 30, App1
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167	27	61.4	444	11	US-11-098-686-11124	Sequence 11124, A	240	26	59.1	257	9	US-10-195-883-304	Sequence 304, App

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245	26	59.1	257	11	US-11-264-096-198	Sequence 198, App	318	26	59.1	465	11	US-11-087-099-7140	Sequence 7140, Ap
246	26	59.1	257	11	US-11-264-096-199	Sequence 199, App	319	26	59.1	465	11	US-11-298-5495	Sequence 5495, Ap
247	26	59.1	257	11	US-11-264-096-199	Sequence 199, App	320	26	59.1	471	11	US-11-098-686-11229	Sequence 11229, A
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260	26	59.1	310	11	US-11-079-463-5515	Sequence 5515, Ap	333	26	59.1	572	11	US-11-072-512-2170	Sequence 2170, Ap
261	26	59.1	314	9	US-10-511-538-153	Sequence 153, App	334	26	59.1	573	11	US-11-079-463-9814	Sequence 9814, Ap
262	26	59.1	314	11	US-11-087-099-7323	Sequence 7323, Ap	335	26	59.1	601	11	US-11-045-004-2030	Sequence 2030, Ap
263	26	59.1	315	11	US-11-079-463-6795	Sequence 6795, Ap	336	26	59.1	605	11	US-11-079-463-5873	Sequence 5873, Ap
264	26	59.1	324	11	US-11-096-568A-8164	Sequence 8164, Ap	337	26	59.1	633	11	US-11-188-298-20491	Sequence 20491, A
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266	26	59.1	329	11	US-11-188-298-20083	Sequence 20083, A	339	26	59.1	632	11	US-11-192-801-2	Sequence 2, Appl1
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269	26	59.1	349	11	US-11-264-096-1591	Sequence 1591, Ap	342	26	59.1	653	11	US-11-192-801-10	Sequence 10, Appl1
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279	26	59.1	373	11	US-11-096-568A-31554	Sequence 31554, A	352	26	59.1	653	11	US-11-192-801-37	Sequence 37, Appl1
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284	26	59.1	401	11	US-11-096-568A-2255	Sequence 2255, Ap	357	26	59.1	736	11	US-11-188-298-11455	Sequence 11455, A
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287	26	59.1	409	11	US-11-087-099-6878	Sequence 6878, Ap	360	26	59.1	849	11	US-11-087-099-10508	Sequence 10508, A
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388	25	56.8	104	11	US-11-072-512-3720	Sequence 3720, Ap	461	25	56.8	289	11	US-11-045-004-250	Sequence 250, App
389	25	56.8	109	11	US-11-079-463-10113	Sequence 10113, A	462	25	56.8	290	11	US-11-079-463-5943	Sequence 5943, Ap
390	25	56.8	111	9	US-10-467-657-4734	Sequence 4734, Ap	463	25	56.8	292	11	US-11-188-298-14021	Sequence 14021, A
391	25	56.8	117	11	US-11-000-463-271	Sequence 271, App	464	25	56.8	295	11	US-11-098-666-10132	Sequence 10132, A
392	25	56.8	117	11	US-11-079-463-7336	Sequence 7336, Ap	465	25	56.8	296	11	US-11-096-568A-31208	Sequence 31208, A
393	25	56.8	121	9	US-10-467-657-3042	Sequence 3042, Ap	466	25	56.8	297	11	US-11-055-822-922	Sequence 922, App
394	25	56.8	129	9	US-10-467-657-1664	Sequence 1664, Ap	467	25	56.8	298	11	US-11-096-568A-8555	Sequence 8555, Ap
395	25	56.8	132	11	US-11-079-463-7759	Sequence 7759, Ap	468	25	56.8	302	11	US-11-096-568A-8554	Sequence 8554, Ap
396	25	56.8	140	11	US-11-124-367A-455	Sequence 455, App	469	25	56.8	302	11	US-11-096-568A-17128	Sequence 17128, Ap
397	25	56.8	144	9	US-10-467-657-7734	Sequence 7734, Ap	470	25	56.8	302	11	US-11-096-568A-25545	Sequence 25545, A
398	25	56.8	145	11	US-11-082-389-310	Sequence 310, App	471	25	56.8	306	11	US-11-096-568A-27674	Sequence 27674, A
399	25	56.8	147	11	US-11-087-099-2007	Sequence 2007, Ap	472	25	56.8	308	9	US-10-511-538-219	Sequence 219, App
400	25	56.8	150	11	US-11-079-463-8688	Sequence 8688, Ap	473	25	56.8	308	11	US-11-072-512-1898	Sequence 3898, Ap
401	25	56.8	152	11	US-11-045-004-129	Sequence 129, App	474	25	56.8	308	11	US-11-188-298-4358	Sequence 4358, Ap
402	25	56.8	155	11	US-11-096-568A-18978	Sequence 18978, A	475	25	56.8	310	11	US-11-082-389-306	Sequence 306, App
403	25	56.8	157	11	US-11-072-512-3893	Sequence 3893, Ap	476	25	56.8	312	9	US-10-517-622-110	Sequence 1210, Ap
404	25	56.8	164	11	US-11-124-367A-453	Sequence 453, App	477	25	56.8	313	11	US-11-190-628-7	Sequence 4, App11
405	25	56.8	164	11	US-11-124-367A-454	Sequence 454, App	478	25	56.8	313	11	US-11-096-568A-25544	Sequence 25544, A
406	25	56.8	164	11	US-11-096-568A-1990	Sequence 1990, Ap	479	25	56.8	315	9	US-10-467-657-510	Sequence 510, App
407	25	56.8	166	11	US-11-188-298-8074	Sequence 8074, Ap	480	25	56.8	315	11	US-11-241-956-15	Sequence 15, App1
408	25	56.8	174	9	US-10-485-517-301	Sequence 301, App	481	25	56.8	317	11	US-11-096-568A-33463	Sequence 33463, A
409	25	56.8	178	11	US-11-087-099-12412	Sequence 12412, A	482	25	56.8	317	11	US-11-188-298-1644	Sequence 1644, A
410	25	56.8	179	11	US-11-096-568A-19277	Sequence 19277, A	483	25	56.8	317	11	US-11-188-298-10252	Sequence 10252, A
411	25	56.8	180	9	US-10-194-487-220	Sequence 220, App	484	25	56.8	317	11	US-11-188-298-1087	Sequence 10807, A
412	25	56.8	180	9	US-10-195-883-220	Sequence 220, App	485	25	56.8	317	11	US-11-045-004-385	Sequence 385, App
413	25	56.8	180	9	US-10-195-888-220	Sequence 220, App	486	25	56.8	318	11	US-11-079-463-9476	Sequence 9476, Ap
414	25	56.8	180	9	US-10-195-889-220	Sequence 220, App	487	25	56.8	320	9	US-10-821-234-1627	Sequence 1627, Ap
415	25	56.8	180	11	US-11-264-096-613	Sequence 613, App	488	25	56.8	322	11	US-11-188-298-15616	Sequence 15616, A
416	25	56.8	181	9	US-10-644-807-242	Sequence 242, App	489	25	56.8	329	11	US-11-188-298-1608	Sequence 1608, Ap
417	25	56.8	186	11	US-11-096-568A-11989	Sequence 11989, Ap	490	25	56.8	337	9	US-10-644-807-335	Sequence 335, App
418	25	56.8	189	11	US-11-098-666-11293	Sequence 11293, A	491	25	56.8	338	11	US-11-188-298-20969	Sequence 20969, A
419	25	56.8	191	11	US-11-264-096-482	Sequence 482, App	492	25	56.8	339	11	US-11-079-463-6480	Sequence 6480, Ap
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421	25	56.8	194	11	US-11-188-298-12124	Sequence 12124, A	494	25	56.8	340	11	US-11-188-298-7463	Sequence 7463, Ap
422	25	56.8	195	11	US-11-264-096-610	Sequence 610, App	495	25	56.8	342	11	US-11-098-666-10807	Sequence 10807, A
423	25	56.8	197	11	US-11-096-568A-31665	Sequence 31665, A	496	25	56.8	342	11	US-11-087-099-3375	Sequence 3375, Ap
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425	25	56.8	199	11	US-11-188-298-1825	Sequence 1825, A	498	25	56.8	345	11	US-11-096-568A-25543	Sequence 25543, A
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427	25	56.8	205	11	US-11-264-096-1199	Sequence 1199, Ap	500	25	56.8	346	9	US-10-793-626-504	Sequence 504, App
428	25	56.8	209	11	US-11-087-099-1475	Sequence 1475, Ap	501	25	56.8	346	11	US-11-096-568A-5797	Sequence 5797, Ap
429	25	56.8	211	11	US-11-045-004-2172	Sequence 2172, Ap	502	25	56.8	347	11	US-11-087-099-7533	Sequence 7533, Ap
430	25	56.8	212	11	US-11-188-298-8906	Sequence 8906, Ap	503	25	56.8	347	11	US-11-188-298-2033	Sequence 2033, A
431	25	56.8	215	11	US-11-096-568A-31209	Sequence 31209, A	504	25	56.8	350	11	US-11-098-666-10238	Sequence 10238, A
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433	25	56.8	226	11	US-11-087-099-12182	Sequence 12182, A	506	25	56.8	352	11	US-11-096-568A-7410	Sequence 7410, Ap
434	25	56.8	221	11	US-11-188-298-16485	Sequence 16485, A	507	25	56.8	353	11	US-11-087-099-9239	Sequence 9239, Ap
435	25	56.8	223	9	US-10-467-657-3408	Sequence 3408, Ap	508	25	56.8	354	9	US-10-485-517-179	Sequence 179, App
436	25	56.8	224	11	US-11-045-004-1560	Sequence 1560, Ap	509	25	56.8	354	9	US-10-485-517-366	Sequence 366, App
437	25	56.8	224	11	US-11-045-004-2079	Sequence 2079, Ap	510	25	56.8	354	11	US-11-096-568A-33462	Sequence 33462, A
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439	25	56.8	236	11	US-11-079-463-8929	Sequence 8929, Ap	512	25	56.8	355	11	US-11-127-877-64	Sequence 64, App11
440	25	56.8	237	11	US-11-096-568A-31128	Sequence 31128, A	513	25	56.8	355	11	US-11-216-610-2	Sequence 2, App11
441	25	56.8	238	11	US-11-096-568A-31912	Sequence 31912, A	514	25	56.8	355	11	US-11-216-610-6	Sequence 6, App11
442	25	56.8	239	9	US-10-793-626-1696	Sequence 1696, Ap	515	25	56.8	355	11	US-11-087-099-3387	Sequence 3387, Ap
443	25	56.8	242	11	US-11-096-568A-31127	Sequence 31127, A	516	25	56.8	356	11	US-11-087-099-3387	Sequence 7533, Ap
444	25	56.8	244	11	US-11-087-099-5920	Sequence 5920, Ap	517	25	56.8	357	11	US-11-261-135-2	Sequence 2, App11
445	25	56.8	246	11	US-11-087-099-6753	Sequence 6753, Ap	518	25	56.8	362	11	US-11-188-298-550	Sequence 4550, App
446	25	56.8	247	11	US-11-096-568A-27676	Sequence 27676, Ap	519	25	56.8	363	11	US-11-087-099-4555	Sequence 4555, Ap
447	25	56.8	249	11	US-11-087-099-6299	Sequence 6299, Ap	520	25	56.8	363	11	US-11-096-568A-31207	Sequence 31207, A
448	25	56.8	253	11	US-11-096-568A-31126	Sequence 31126, A	521	25	56.8	363	11	US-11-264-096-103	Sequence 103, App
449	25	56.8	257	9	US-10-467-657-176	Sequence 176, App	522	25	56.8	364	9	US-10-986-405-237	Sequence 237, App
450	25	56.8	257	9	US-10-467-657-3698	Sequence 3698, Ap	523	25	56.8	365	11	US-11-264-096-480	Sequence 480, App
451	25	56.8	263	11	US-11-096-568A-33677	Sequence 33677, A	524	25	56.8	368	11	US-11-087-099-2556	Sequence 2556, App
452	25	56.8	265	11	US-11-188-298-13784	Sequence 13784, A	525	25	56.8	368	11	US-11-188-298-21335	Sequence 21335, A
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454	25	56.8	270	11	US-11-096-568A-1988	Sequence 1988, Ap	527	25	56.8	375	11	US-11-079-463-7927	Sequence 7927, Ap
455	25	56.8	277	11	US-11-096-568A-8556	Sequence 8556, Ap	528	25	56.8	375	11	US-11-045-004-2040	Sequence 2040, Ap
456	25	56.8	281	11	US-11-096-568A-8556	Sequence 8556, Ap	529	25	56.8	376	11	US-10-915-002-288	Sequence 288, App
457	25	56.8	283	11	US-11-096-568A-31664	Sequence 31664, A	530	25	56.8	376	11	US-11-012-762-18	Sequence 18, App1
458	25	56.8	284	11	US-11-096-568A-31663	Sequence 31663, A	531	25	56.8	376	11	US-11-012-762-20	Sequence 20, App1
459	25	56.8	284	11	US-11-096-568A-31663	Sequence 31663, A	532	25	56.8	376	11	US-11-012-762-20	Sequence 20, App1

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534	25	56.8	376	11	US-11-012-762-24	Sequence 24, Appl	607	25	56.8	514	9	US-10-840-688-10	Sequence 10, Appl
535	25	56.8	378	8	US-10-511-937-2404	Sequence 2404, Ap	608	25	56.8	514	9	US-10-840-688-11	Sequence 11, Appl
536	25	56.8	379	9	US-10-793-626-2084	Sequence 2084, Ap	609	25	56.8	514	9	US-10-840-688-12	Sequence 12, Appl
537	25	56.8	379	11	US-11-188-298-4806	Sequence 4806, Ap	610	25	56.8	514	9	US-10-840-688-13	Sequence 13, Appl
538	25	56.8	382	9	US-10-793-626-2026	Sequence 2026, Ap	611	25	56.8	514	9	US-10-840-688-21	Sequence 21, Appl
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545	25	56.8	394	11	US-11-096-568A-8057	Sequence 8057, Ap	618	25	56.8	528	11	US-11-087-059-382	Sequence 382, App
546	25	56.8	397	11	US-11-188-298-8305	Sequence 8305, Ap	619	25	56.8	530	11	US-11-188-298-11819	Sequence 11819, A
547	25	56.8	398	8	US-10-511-937-2405	Sequence 2405, Ap	620	25	56.8	534	11	US-11-183-218-24	Sequence 24, Appl
548	25	56.8	398	9	US-10-821-234-1583	Sequence 1583, Ap	621	25	56.8	536	10	US-11-183-218-24	Sequence 24, Appl
549	25	56.8	398	11	US-11-188-298-2450	Sequence 2450, Ap	622	25	56.8	536	10	US-11-183-218-24	Sequence 24, Appl
550	25	56.8	402	11	US-11-188-298-15332	Sequence 15332, A	623	25	56.8	536	10	US-11-183-218-24	Sequence 24, Appl
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553	25	56.8	410	11	US-11-079-463-8158	Sequence 8158, Ap	626	25	56.8	548	11	US-11-079-463-9463	Sequence 9463, Ap
554	25	56.8	414	11	US-11-188-298-1168	Sequence 1168, Ap	627	25	56.8	551	11	US-11-264-096-1202	Sequence 1202, Ap
555	25	56.8	418	11	US-11-188-298-22203	Sequence 22203, A	628	25	56.8	556	9	US-10-511-538-89	Sequence 89, Appl
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557	25	56.8	419	9	US-10-467-657-7614	Sequence 7614, Ap	630	25	56.8	574	9	US-10-507-725-7	Sequence 7, Appl1
558	25	56.8	419	11	US-11-188-298-5920	Sequence 5920, Ap	631	25	56.8	574	9	US-10-507-725-7	Sequence 7, Appl1
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561	25	56.8	422	9	US-10-506-454-1080	Sequence 1080, Ap	634	25	56.8	614	9	US-10-745-586-4	Sequence 40, Appl
562	25	56.8	425	11	US-11-079-463-9645	Sequence 9645, Ap	635	25	56.8	614	9	US-10-467-657-1772	Sequence 1772, Ap
563	25	56.8	428	11	US-11-074-176-364	Sequence 364, App	636	25	56.8	632	11	US-10-467-657-1772	Sequence 2453, Ap
564	25	56.8	429	11	US-11-188-298-20746	Sequence 20746, A	637	25	56.8	642	11	US-11-177-894-9	Sequence 9, Appl1
565	25	56.8	430	11	US-11-096-568A-7409	Sequence 7409, Ap	638	25	56.8	642	11	US-11-177-894-9	Sequence 496, Appl
566	25	56.8	431	11	US-11-188-298-3114	Sequence 3114, Ap	639	25	56.8	642	11	US-11-094-586-10	Sequence 10, Appl
567	25	56.8	431	11	US-11-045-004-1536	Sequence 1536, Ap	640	25	56.8	653	11	US-11-094-586-10	Sequence 2645, Ap
568	25	56.8	434	9	US-10-453-372-372	Sequence 372, App	641	25	56.8	653	11	US-11-094-586-10	Sequence 10601, A
569	25	56.8	436	11	US-11-188-298-3170	Sequence 3170, Ap	642	25	56.8	665	11	US-11-098-686-10601	Sequence 7401, Ap
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571	25	56.8	441	11	US-11-024-959-280	Sequence 280, App	644	25	56.8	717	11	US-11-188-298-16498	Sequence 16498, A
572	25	56.8	443	9	US-10-194-487-516	Sequence 516, App	645	25	56.8	724	11	US-11-072-512-2224	Sequence 2224, Ap
573	25	56.8	443	9	US-10-195-883-516	Sequence 516, App	646	25	56.8	735	9	US-11-188-298-16084	Sequence 16084, A
574	25	56.8	443	9	US-10-195-888-516	Sequence 516, App	647	25	56.8	735	9	US-10-505-263-6	Sequence 8, Appl1
575	25	56.8	443	9	US-10-195-889-516	Sequence 516, App	648	25	56.8	747	9	US-11-188-298-1583	Sequence 1583, Ap
576	25	56.8	443	11	US-11-072-512-3564	Sequence 3564, Ap	649	25	56.8	747	9	US-10-131-826A-426	Sequence 426, App
577	25	56.8	444	11	US-11-112-882-21	Sequence 21, Appl	650	25	56.8	747	9	US-10-131-826A-426	Sequence 426, App
578	25	56.8	444	11	US-11-096-568A-8056	Sequence 8056, Ap	651	25	56.8	747	9	US-10-216-161A-459	Sequence 459, App
579	25	56.8	445	11	US-11-188-298-17688	Sequence 8055, Ap	652	25	56.8	747	9	US-10-137-873A-426	Sequence 426, App
580	25	56.8	445	11	US-11-188-298-17688	Sequence 17688, A	653	25	56.8	747	11	US-11-290-153-426	Sequence 426, App
581	25	56.8	445	9	US-10-793-626-2666	Sequence 2666, Ap	654	25	56.8	758	9	US-10-505-263-6	Sequence 6, Appl1
582	25	56.8	445	11	US-11-188-298-20397	Sequence 20397, A	655	25	56.8	760	11	US-11-087-099-1634	Sequence 1634, Ap
583	25	56.8	446	9	US-10-510-366-186	Sequence 186, App	656	25	56.8	764	11	US-11-188-298-8832	Sequence 8832, Ap
584	25	56.8	446	11	US-11-087-099-1003	Sequence 1003, Ap	657	25	56.8	773	11	US-11-188-298-18509	Sequence 18509, A
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587	25	56.8	476	11	US-11-069-642-19	Sequence 19, Appl	660	25	56.8	794	11	US-11-087-099-9266	Sequence 9266, Ap
588	25	56.8	481	11	US-10-506-454-1067	Sequence 1067, App	661	25	56.8	805	11	US-11-079-463-9232	Sequence 9232, Ap
589	25	56.8	481	11	US-11-188-298-20529	Sequence 20529, A	662	25	56.8	831	11	US-11-188-298-20141	Sequence 20141, A
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591	25	56.8	485	11	US-11-079-463-6147	Sequence 6147, Ap	664	25	56.8	839	9	US-10-242-586-54	Sequence 54, Appl
592	25	56.8	485	11	US-11-188-298-21177	Sequence 21177, A	665	25	56.8	839	9	US-10-242-902-24	Sequence 54, Appl
593	25	56.8	491	11	US-11-188-298-8509	Sequence 8509, Ap	666	25	56.8	839	9	US-10-243-116-54	Sequence 54, Appl
594	25	56.8	491	11	US-11-188-298-21032	Sequence 21032, A	667	25	56.8	839	9	US-10-243-116-54	Sequence 54, Appl
595	25	56.8	493	11	US-11-087-099-5102	Sequence 5102, Ap	668	25	56.8	839	9	US-10-243-116-54	Sequence 54, Appl
596	25	56.8	502	9	US-10-510-941-12	Sequence 12, Appl	669	25	56.8	839	9	US-10-243-215-54	Sequence 54, Appl
597	25	56.8	502	11	US-11-079-463-5899	Sequence 5899, Ap	670	25	56.8	839	9	US-10-243-215-54	Sequence 54, Appl
598	25	56.8	502	11	US-11-188-298-9832	Sequence 9832, Ap	671	25	56.8	839	9	US-10-243-215-54	Sequence 54, Appl
599	25	56.8	514	9	US-10-840-688-2	Sequence 2, Appl1	672	25	56.8	839	9	US-10-243-304-54	Sequence 54, Appl
600	25	56.8	514	9	US-10-840-688-3	Sequence 3, Appl1	673	25	56.8	839	9	US-10-243-304-54	Sequence 54, Appl
601	25	56.8	514	9	US-10-840-688-4	Sequence 4, Appl1	674	25	56.8	839	9	US-10-243-304-54	Sequence 54, Appl
602	25	56.8	514	9	US-10-840-688-5	Sequence 5, Appl1	675	25	56.8	839	9	US-10-243-304-54	Sequence 54, Appl
603	25	56.8	514	9	US-10-840-688-6	Sequence 6, Appl1	676	25	56.8	839	9	US-10-243-304-54	Sequence 54, Appl
604	25	56.8	514	9	US-10-840-688-7	Sequence 7, Appl1	677	25	56.8	839	9	US-10-243-304-54	Sequence 54, Appl
605	25	56.8	514	9	US-10-840-688-8	Sequence 8, Appl1	678	25	56.8	845	9	US-10-714-995-34	Sequence 34, Appl

679	25	56.8	845	11	US-11-147-047-46	Sequence 46, Appl	752	24	54.5	69	11	US-11-096-568A-8358	Sequence 8358, Ap
680	25	56.8	845	11	US-11-264-096-483	Sequence 483, Appl	753	24	54.5	70	10	US-11-079-463-6791	Sequence 6791, Ap
681	25	56.8	858	11	US-11-072-512-2918	Sequence 2918, Ap	754	24	54.5	76	11	US-11-251-673-1	Sequence 1, Appl
682	25	56.8	858	11	US-11-096-568A-29008	Sequence 29008, A	755	24	54.5	76	11	US-11-069-642-103	Sequence 10, Appl
683	25	56.8	912	9	US-10-501-035-372	Sequence 372, Appl	756	24	54.5	77	11	US-11-264-096-842	Sequence 842, Appl
684	25	56.8	915	11	US-11-144-987-16	Sequence 16, Appl	757	24	54.5	79	11	US-11-096-568A-1603	Sequence 1603, Appl
685	25	56.8	915	11	US-11-144-987-22	Sequence 22, Appl	758	24	54.5	81	11	US-11-188-298-10986	Sequence 10986, A
686	25	56.8	915	11	US-11-205-935-16	Sequence 16, Appl	759	24	54.5	84	11	US-11-079-463-7226	Sequence 7226, Ap
687	25	56.8	915	11	US-11-205-935-22	Sequence 22, Appl	760	24	54.5	84	11	US-11-079-463-9515	Sequence 9515, Ap
688	25	56.8	917	11	US-11-144-987-18	Sequence 18, Appl	761	24	54.5	87	9	US-10-506-454-475	Sequence 475, Appl
689	25	56.8	917	11	US-11-144-987-20	Sequence 20, Appl	762	24	54.5	89	11	US-11-000-463-798	Sequence 798, Appl
690	25	56.8	917	11	US-11-144-987-24	Sequence 24, Appl	763	24	54.5	92	9	US-10-467-657-2378	Sequence 2378, Ap
691	25	56.8	917	11	US-11-144-987-26	Sequence 26, Appl	764	24	54.5	93	11	US-11-079-463-6977	Sequence 6977, Ap
692	25	56.8	917	11	US-11-205-935-18	Sequence 18, Appl	765	24	54.5	94	11	US-11-249-893-5	Sequence 5, Appl
693	25	56.8	917	11	US-11-205-935-20	Sequence 20, Appl	766	24	54.5	95	11	US-11-045-004-2791	Sequence 2791, Ap
694	25	56.8	917	11	US-11-205-935-24	Sequence 24, Appl	767	24	54.5	96	11	US-11-000-463-326	Sequence 326, Appl
695	25	56.8	917	11	US-11-205-935-26	Sequence 26, Appl	768	24	54.5	102	11	US-11-096-568A-13484	Sequence 13484, A
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697	25	56.8	926	11	US-11-096-568A-29007	Sequence 29007, A	770	24	54.5	105	11	US-11-079-463-8583	Sequence 8583, Ap
698	25	56.8	931	9	US-10-330-773-370	Sequence 370, Appl	771	24	54.5	110	11	US-11-096-568A-24899	Sequence 24899, A
699	25	56.8	932	11	US-11-057-058-59	Sequence 59, Appl	772	24	54.5	115	11	US-11-087-099-2176	Sequence 2176, Ap
700	25	56.8	992	11	US-11-072-512-2473	Sequence 2473, Ap	773	24	54.5	118	11	US-11-045-004-2174	Sequence 2174, Ap
701	25	56.8	1020	9	US-10-513-786-4	Sequence 4, Appl	774	24	54.5	120	11	US-11-096-568A-13463	Sequence 13463, A
702	25	56.8	1033	9	US-10-330-773-367	Sequence 367, Appl	775	24	54.5	123	11	US-11-096-568A-24898	Sequence 24898, A
703	25	56.8	1047	11	US-11-124-367A-388	Sequence 388, Appl	776	24	54.5	124	11	US-11-096-568A-3143	Sequence 3143, Ap
704	25	56.8	1058	11	US-11-124-367A-386	Sequence 386, Appl	777	24	54.5	128	9	US-10-821-234-1644	Sequence 1644, Ap
705	25	56.8	1062	11	US-11-124-367A-387	Sequence 387, Appl	778	24	54.5	138	11	US-11-096-568A-24897	Sequence 24897, A
706	25	56.8	1109	11	US-11-096-568A-29006	Sequence 29006, A	779	24	54.5	142	8	US-10-511-937-2538	Sequence 2538, Ap
707	25	56.8	1115	9	US-10-055-877-160	Sequence 160, Appl	780	24	54.5	145	11	US-11-172-740-99	Sequence 99, Appl
708	25	56.8	1119	9	US-10-131-826A-352	Sequence 352, Appl	781	24	54.5	145	11	US-11-079-463-5727	Sequence 5727, Ap
709	25	56.8	1119	9	US-10-973-115B-352	Sequence 352, Appl	782	24	54.5	147	11	US-11-172-740-103	Sequence 103, Appl
710	25	56.8	1119	9	US-10-137-873A-352	Sequence 352, Appl	783	24	54.5	149	9	US-10-511-538-1172	Sequence 172, Appl
711	25	56.8	1119	9	US-10-152-370-352	Sequence 352, Appl	784	24	54.5	153	11	US-11-120-381A-4	Sequence 4, Appl
712	25	56.8	1119	11	US-11-290-153-352	Sequence 352, Appl	785	24	54.5	153	11	US-11-120-381A-5	Sequence 5, Appl
713	25	56.8	1272	9	US-10-501-035-313	Sequence 313, Appl	786	24	54.5	153	11	US-11-172-740-100	Sequence 100, Appl
714	25	56.8	1308	11	US-11-124-367A-396	Sequence 396, Appl	787	24	54.5	153	11	US-11-172-740-104	Sequence 104, Appl
715	25	56.8	1332	11	US-11-124-367A-394	Sequence 394, Appl	788	24	54.5	154	11	US-11-172-740-97	Sequence 97, Appl
716	25	56.8	1349	11	US-11-045-004-28	Sequence 28, Appl	789	24	54.5	154	11	US-11-172-740-102	Sequence 102, Appl
717	25	56.8	1413	11	US-11-124-367A-395	Sequence 395, Appl	790	24	54.5	154	11	US-11-172-740-1025	Sequence 1025, Appl
718	25	56.8	1452	11	US-11-124-367A-397	Sequence 397, Appl	791	24	54.5	154	11	US-11-229-769-233	Sequence 233, Appl
719	25	56.8	1456	8	US-10-505-928-69	Sequence 69, Appl	792	24	54.5	155	11	US-11-172-740-1019	Sequence 1019, Appl
720	25	56.8	1478	11	US-11-188-298-6040	Sequence 6040, Ap	793	24	54.5	155	11	US-11-172-740-1020	Sequence 1020, Appl
721	25	56.8	1478	11	US-11-188-298-8632	Sequence 8632, Ap	794	24	54.5	155	11	US-11-172-740-1028	Sequence 1028, Appl
722	25	56.8	1478	11	US-11-188-298-13053	Sequence 13053, A	795	24	54.5	155	11	US-11-172-740-1029	Sequence 1029, Appl
723	25	56.8	1560	9	US-10-204-639-63	Sequence 63, Appl	796	24	54.5	155	11	US-11-172-740-1030	Sequence 1030, Appl
724	25	56.8	1900	9	US-10-513-786-3	Sequence 3, Appl	797	24	54.5	156	9	US-10-927-641-67	Sequence 67, Appl
725	25	56.8	1905	9	US-10-877-346-44	Sequence 44, Appl	798	24	54.5	156	9	US-10-821-234-1397	Sequence 1397, Ap
726	25	56.8	2644	9	US-10-770-726-45	Sequence 45, Appl	799	24	54.5	156	11	US-11-072-512-3692	Sequence 3692, Appl
727	25	56.8	3389	9	US-10-204-252-10	Sequence 10, Appl	800	24	54.5	156	11	US-11-096-568A-8084	Sequence 8084, Ap
728	25	56.8	3391	9	US-10-204-252-6	Sequence 6, Appl	801	24	54.5	156	11	US-11-172-740-1013	Sequence 1013, Appl
729	25	56.8	3391	9	US-10-204-252-8	Sequence 8, Appl	802	24	54.5	156	11	US-11-172-740-1021	Sequence 1021, Appl
730	25	56.8	3391	9	US-10-204-252-12	Sequence 12, Appl	803	24	54.5	157	11	US-11-172-740-1016	Sequence 1016, Appl
731	25	56.8	3391	9	US-10-204-252-14	Sequence 14, Appl	804	24	54.5	157	11	US-11-172-740-1017	Sequence 1017, Appl
732	25	56.8	3391	9	US-10-204-252-16	Sequence 16, Appl	805	24	54.5	157	11	US-11-172-740-1022	Sequence 1022, Appl
733	25	56.8	3391	9	US-10-204-252-28	Sequence 28, Appl	806	24	54.5	157	11	US-11-172-740-1024	Sequence 1024, Appl
734	25	56.8	3488	11	US-10-204-252-18	Sequence 18, Appl	807	24	54.5	157	11	US-11-172-740-1027	Sequence 1027, Appl
735	25	56.8	3488	11	US-11-087-099-9005	Sequence 9005, Ap	808	24	54.5	158	11	US-11-172-740-1014	Sequence 1014, Appl
736	25	56.8	3580	9	US-10-510-941-14	Sequence 14, Appl	809	24	54.5	161	11	US-11-172-740-1018	Sequence 1018, Appl
737	25	56.8	3704	9	US-10-513-786-1	Sequence 1, Appl	810	24	54.5	162	11	US-11-096-568A-10248	Sequence 10248, A
738	25	56.8	3716	11	US-11-052-554A-141	Sequence 141, Appl	811	24	54.5	163	11	US-11-188-298-1281	Sequence 1281, Ap
739	25	56.8	4128	9	US-10-770-726-77	Sequence 77, Appl	812	24	54.5	163	11	US-11-172-740-1015	Sequence 1015, Appl
740	24	55.7	584	9	US-10-485-517-164	Sequence 164, Appl	813	24	54.5	171	11	US-11-229-769-152	Sequence 152, Appl
741	24	54.5	12	11	US-11-129-741-3652	Sequence 3652, Appl	814	24	54.5	172	11	US-11-172-740-1026	Sequence 1026, Appl
742	24	54.5	18	9	US-10-467-657-8705	Sequence 8705, Appl	815	24	54.5	173	11	US-11-188-298-1121	Sequence 1121, Appl
743	24	54.5	18	11	US-10-467-657-8705	Sequence 8705, Appl	816	24	54.5	175	11	US-11-096-568A-8083	Sequence 8083, Appl
744	24	54.5	18	11	US-11-004-399-2263	Sequence 2263, Appl	817	24	54.5	179	11	US-11-172-740-1023	Sequence 1023, Appl
745	24	54.5	43	9	US-10-467-657-4530	Sequence 4530, Appl	818	24	54.5	180	9	US-10-506-454-484	Sequence 484, Appl
746	24	54.5	47	11	US-11-096-568A-2649	Sequence 2649, Appl	819	24	54.5	184	11	US-11-096-568A-21376	Sequence 21376, A
747	24	54.5	50	11	US-10-895-064-2204	Sequence 2204, Appl	820	24	54.5	185	11	US-11-079-463-9130	Sequence 9130, Appl
748	24	54.5	50	11	US-11-129-741-2204	Sequence 2204, Appl	821	24	54.5	192	11	US-11-096-568A-13573	Sequence 13573, A
749	24	54.5	53	9	US-10-916-827-4	Sequence 4, Appl	822	24	54.5	193	11	US-11-055-822-568	Sequence 568, Appl
750	24	54.5	56	11	US-11-096-568A-1605	Sequence 1605, Appl	823	24	54.5	194	9	US-10-506-454-101	Sequence 101, Appl
751	24	54.5	62	11	US-10-467-657-8114	Sequence 8114, Appl	824	24	54.5	194	11	US-11-087-099-7152	Sequence 7152, Appl

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829	24	54.5	210	7	US-09-995-493-116	Sequence 116, App
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837	24	54.5	224	11	US-11-072-512-2076	Sequence 2076, Ap
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839	24	54.5	227	11	US-11-232-440-4	Sequence 4, Appl
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841	24	54.5	229	9	US-10-927-641-80	Sequence 80, Appl
842	24	54.5	230	11	US-11-096-568A-25610	Sequence 25610, A
843	24	54.5	233	9	US-10-523-328-1	Sequence 1, Appl
844	24	54.5	233	11	US-11-246-387-8	Sequence 8, Appl
845	24	54.5	236	11	US-11-098-686-10100	Sequence 10100, A
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847	24	54.5	244	11	US-11-096-568A-2918	Sequence 2918, Ap
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849	24	54.5	252	9	US-10-793-626-1160	Sequence 1160, Ap
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852	24	54.5	259	9	US-10-467-657-3410	Sequence 3410, Ap
853	24	54.5	259	11	US-11-087-099-9579	Sequence 9579, Ap
854	24	54.5	264	9	US-10-778-636-3	Sequence 3, Appl
855	24	54.5	264	9	US-10-778-636-4	Sequence 4, Appl
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857	24	54.5	268	9	US-10-506-454-894	Sequence 894, App
858	24	54.5	272	11	US-11-096-568A-20187	Sequence 20187, A
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863	24	54.5	286	11	US-11-057-012-93	Sequence 93, Appl
864	24	54.5	288	11	US-11-188-298-7076	Sequence 7076, Ap
865	24	54.5	291	9	US-10-821-234-1550	Sequence 1550, Ap
866	24	54.5	291	10	US-11-301-554-333	Sequence 333, App
867	24	54.5	292	11	US-11-045-004-2829	Sequence 2829, Ap
868	24	54.5	294	11	US-11-096-568A-10246	Sequence 10246, A
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873	24	54.5	307	11	US-11-096-568A-16472	Sequence 16472, A
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875	24	54.5	307	11	US-11-188-298-16911	Sequence 16911, A
876	24	54.5	307	11	US-11-188-298-20978	Sequence 20978, A
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878	24	54.5	311	9	US-10-511-538-176	Sequence 176, Appl
879	24	54.5	311	9	US-10-455-772-330	Sequence 330, App
880	24	54.5	311	9	US-10-455-772-332	Sequence 332, App
881	24	54.5	311	9	US-10-455-772-334	Sequence 334, App
882	24	54.5	311	9	US-10-793-626-2186	Sequence 2186, Ap
883	24	54.5	312	9	US-10-055-877-339	Sequence 339, App
884	24	54.5	312	11	US-11-124-368A-330	Sequence 330, App
885	24	54.5	312	11	US-11-124-368A-514	Sequence 514, App
886	24	54.5	313	9	US-10-511-538-64	Sequence 64, Appl
887	24	54.5	313	9	US-11-096-568A-2917	Sequence 2917, Ap
888	24	54.5	313	11	US-11-096-568A-2920	Sequence 2920, Ap
889	24	54.5	313	11	US-11-096-568A-25609	Sequence 25609, A
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891	24	54.5	314	9	US-10-455-772-626	Sequence 626, App
892	24	54.5	314	9	US-10-455-772-632	Sequence 632, App
893	24	54.5	314	11	US-11-072-512-2972	Sequence 2972, Ap
894	24	54.5	315	11	US-11-241-956-11	Sequence 11, Appl
895	24	54.5	318	9	US-10-055-877-119	Sequence 119, App
896	24	54.5	318	9	US-10-055-877-119	Sequence 222, App
897	24	54.5	318	9	US-10-055-877-222	Sequence 222, App
898	24	54.5	318	9	US-10-055-877-322	Sequence 322, App
899	24	54.5	318	9	US-10-055-877-323	Sequence 323, App
900	24	54.5	318	9	US-10-055-877-324	Sequence 324, App
901	24	54.5	318	9	US-10-055-877-326	Sequence 326, App
902	24	54.5	319	9	US-10-055-877-321	Sequence 321, App
903	24	54.5	319	9	US-10-055-877-223	Sequence 223, App
904	24	54.5	319	9	US-10-055-877-224	Sequence 224, App
905	24	54.5	319	9	US-10-455-772-110	Sequence 410, App
906	24	54.5	319	9	US-10-455-772-112	Sequence 412, App
907	24	54.5	319	9	US-10-455-772-114	Sequence 414, App
908	24	54.5	319	9	US-10-455-772-416	Sequence 416, App
909	24	54.5	319	9	US-10-455-772-418	Sequence 418, App
910	24	54.5	319	9	US-10-455-772-420	Sequence 420, App
911	24	54.5	319	9	US-10-455-772-422	Sequence 422, App
912	24	54.5	319	9	US-10-455-772-424	Sequence 424, App
913	24	54.5	319	11	US-11-190-188-11	Sequence 12, Appl
914	24	54.5	319	11	US-11-096-568A-17689	Sequence 17689, A
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918	24	54.5	324	11	US-11-079-463-6638	Sequence 6638, Ap
919	24	54.5	325	9	US-10-510-101-156	Sequence 156, App
920	24	54.5	325	11	US-11-188-298-18310	Sequence 18310, A
921	24	54.5	326	11	US-11-156-084-239	Sequence 239, App
922	24	54.5	327	9	US-10-055-877-337	Sequence 337, App
923	24	54.5	330	11	US-11-188-298-19932	Sequence 1932, A
924	24	54.5	331	11	US-11-188-298-4083	Sequence 4083, A
925	24	54.5	332	11	US-11-096-568A-22602	Sequence 22602, A
926	24	54.5	342	9	US-10-055-877-335	Sequence 335, App
927	24	54.5	343	11	US-11-188-298-1154	Sequence 1154, Ap
928	24	54.5	343	11	US-11-188-298-3389	Sequence 3389, App
929	24	54.5	346	11	US-11-190-188-17	Sequence 17, Appl
930	24	54.5	346	11	US-11-077-619-64	Sequence 64, Appl
931	24	54.5	346	11	US-11-188-298-2591	Sequence 2591, App
932	24	54.5	348	11	US-11-096-568A-33378	Sequence 33378, A
933	24	54.5	349	11	US-11-188-298-6628	Sequence 6628, Ap
934	24	54.5	349	11	US-11-172-740-0506	Sequence 2506, Ap
935	24	54.5	351	11	US-11-072-512-2926	Sequence 2926, Ap
936	24	54.5	353	11	US-11-096-568A-6555	Sequence 6555, Ap
937	24	54.5	353	11	US-11-172-740-553	Sequence 553, App
938	24	54.5	353	11	US-11-188-298-11213	Sequence 11213, A
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940	24	54.5	353	11	US-11-188-298-22162	Sequence 22162, A
941	24	54.5	353	11	US-11-188-298-22162	Sequence 22162, A
942	24	54.5	354	9	US-10-037-415-59	Sequence 59, Appl
943	24	54.5	355	11	US-11-079-463-4473	Sequence 4473, Ap
944	24	54.5	355	11	US-11-188-298-6209	Sequence 6209, Ap
945	24	54.5	358	11	US-11-188-298-6524	Sequence 6524, Ap
946	24	54.5	359	11	US-11-096-568A-9689	Sequence 9689, Ap
947	24	54.5	361	11	US-11-188-298-15075	Sequence 15075, A
948	24	54.5	362	9	US-10-467-657-1110	Sequence 1110, App
949	24	54.5	363	8	US-10-511-937-2287	Sequence 2287, Ap
950	24	54.5	363	11	US-11-156-084-199	Sequence 199, App
951	24	54.5	364	11	US-11-156-084-199	Sequence 347, App
952	24	54.5	364	11	US-11-096-568A-22601	Sequence 22601, A
953	24	54.5	367	11	US-11-188-298-729	Sequence 729, App
954	24	54.5	367	11	US-11-098-686-10758	Sequence 10758, A
955	24	54.5	370	11	US-11-096-568A-2975	Sequence 2975, Ap
956	24	54.5	370	11	US-11-096-568A-93323	Sequence 93323, Ap
957	24	54.5	371	11	US-11-120-308-118	Sequence 9322, App
958	24	54.5	371	11	US-11-096-568A-9324	Sequence 9324, Ap
959	24	54.5	371	11	US-11-096-568A-9325	Sequence 9325, App
960	24	54.5	371	11	US-11-096-568A-9326	Sequence 9326, App
961	24	54.5	371	11	US-11-096-568A-93391	Sequence 93391, A
962	24	54.5	372	11	US-11-096-568A-93323	Sequence 93323, Ap
963	24	54.5	373	11	US-11-096-568A-93322	Sequence 93322, App
964	24	54.5	374	11	US-11-096-568A-93365	Sequence 93365, A
965	24	54.5	378	11	US-11-096-568A-93864	Sequence 93864, A
966	24	54.5	380	11	US-11-188-298-2236	Sequence 2236, Ap
967	24	54.5	380	11	US-11-188-298-2236	Sequence 2236, Ap
968	24	54.5	385	11	US-10-467-657-554	Sequence 554, App
969	24	54.5	387	11	US-11-096-568A-32411	Sequence 32411, A
970	24	54.5	389	11	US-11-188-298-14758	Sequence 14758, A
	24	54.5	389	11	US-11-096-568A-2974	Sequence 2974, Ap

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971 24 54.5 390 11 US-11-096-568A-32410 Sequence 32410, A
972 24 54.5 391 9 US-10-467-657-2524 Sequence 2524, Ap
973 24 54.5 391 9 US-11-079-463-9159 Sequence 9159, Ap
974 24 54.5 392 9 US-10-703-799B-134 Sequence 134, App
975 24 54.5 395 11 US-11-188-298-18260 Sequence 18260, A
976 24 54.5 397 11 US-11-098-686-11062 Sequence 11062, A
977 24 54.5 400 11 US-11-051-724-34 Sequence 34, Appl
978 24 54.5 401 11 US-11-096-568A-33377 Sequence 33377, A
979 24 54.5 402 11 US-11-188-298-1863 Sequence 763, Ap
980 24 54.5 402 11 US-11-156-300-32 Sequence 32, Appl
981 24 54.5 405 11 US-11-188-298-8703 Sequence 8703, Ap
982 24 54.5 406 11 US-11-074-176-92 Sequence 92, Appl
983 24 54.5 406 11 US-11-079-463-8062 Sequence 8062, Appl
984 24 54.5 408 11 US-11-188-298-20991 Sequence 20991, A
985 24 54.5 410 11 US-11-045-004-1911 Sequence 1911, Ap
986 24 54.5 412 11 US-11-096-568A-33376 Sequence 33376, A
987 24 54.5 417 11 US-11-087-099-9338 Sequence 9338, Ap
988 24 54.5 417 11 US-11-188-298-8031 Sequence 8031, Ap
989 24 54.5 417 11 US-11-188-298-20458 Sequence 20458, A
990 24 54.5 419 11 US-11-045-004-169 Sequence 169, App
991 24 54.5 419 11 US-11-188-298-748 Sequence 748, App
992 24 54.5 419 11 US-11-188-298-12339 Sequence 12339, A
993 24 54.5 419 11 US-11-188-298-14640 Sequence 14640, A
994 24 54.5 423 11 US-11-096-568A-32432 Sequence 32432, A
995 24 54.5 423 11 US-11-188-298-17280 Sequence 17280, A
996 24 54.5 424 11 US-11-229-371-98 Sequence 98, Appl
997 24 54.5 424 11 US-11-229-371-110 Sequence 110, App
998 24 54.5 424 11 US-11-229-371-117 Sequence 117, App
999 24 54.5 424 11 US-11-229-371-119 Sequence 119, App
1000 24 54.5 424 11 US-11-229-371-125 Sequence 125, App
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ALIGNMENTS

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RESULT 1
US-10-530-061-1718
; Sequence 1718, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.033US02/EKS/M-M
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1718
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-1718

Query Match 100.0%; Score 44; DB 9; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.0071;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

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; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.033US02/EKS/M-M
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1719
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-1719

Query Match 100.0%; Score 44; DB 9; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.0071;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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RESULT 3
US-10-530-253-27
; Sequence 27, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Casasetti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: US/10/530,253
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: US 60/415,929
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 27
; LENGTH: 105
; TYPE: PRT
; ORGANISM: Human papillomavirus type 18
US-10-530-253-27
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Query Match 100.0%; Score 44; DB 9; Length 105;
Best Local Similarity 100.0%; Pred. No. 0.056;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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QY 1 QLFINTLSF 9
Db 6 QLFINTLSF 14

RESULT 4
US-10-530-061-864
; Sequence 864, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
```

APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.033US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; PRIOR FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 864
; LENGTH: 8
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-864

Query Match 88.6%; Score 39; DB 9; Length 8;
Best Local Similarity 100.0%; Pred. No. 1.9e+05;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 LPLNTLSF 9
Db 1 LPLNTLSF 8

RESULT 5
US-10-530-061-1729
; Sequence 1729, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.033US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1729
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-1729

Query Match 88.6%; Score 39; DB 9; Length 15;
Best Local Similarity 88.9%; Pred. No. 0.074;
Matches 8; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 QLFNTLSF 9
Db 6 QLFSTLSF 14

RESULT 6
US-10-530-061-1730
; Sequence 1730, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.033US02/EKS/M-M

CURRENT APPLICATION NUMBER: US/10/530,061
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1730
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-1730

Query Match 88.6%; Score 39; DB 9; Length 15;
Best Local Similarity 88.9%; Pred. No. 0.074;
Matches 8; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 QLFNTLSF 9
Db 3 QLFSTLSF 11

RESULT 7
US-10-530-253-32
; Sequence 32, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Casasetti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 32
; LENGTH: 106
; TYPE: PRT
; ORGANISM: Human papillomavirus type 45
US-10-530-253-32

Query Match 88.6%; Score 39; DB 9; Length 106;
Best Local Similarity 88.9%; Pred. No. 0.58;
Matches 8; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 QLFNTLSF 9
Db 89 QLFSTLSF 97

RESULT 8
US-10-530-253-37
; Sequence 37, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Casasetti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726

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; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 37
; LENGTH: 107
; TYPE: PRT
; ORGANISM: Human papillomavirus type 59
US-10-530-253-37

Query Match      84.1%; Score 37; DB 9; Length 107;
Best Local Similarity 77.8%; Pred. No. 1.5;
Matches 7; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy      1 QLFNTLSF 9
        |||:||||
Db      90 QLFMDTSLF 98

RESULT 9
US-10-530-061-865
; Sequence 865, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.03US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; PRIOR FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 865
; LENGTH: 8
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-865

Query Match      77.3%; Score 34; DB 9; Length 8;
Best Local Similarity 87.5%; Pred. No. 1.9e+05;
Matches 7; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy      2 LFLNTLSF 9
        |||:||||
Db      1 LFLSTLSF 8

RESULT 10
US-10-703-799B-42
; Sequence 42, Application US/10703799B
; Publication No. US20060078884A1
; GENERAL INFORMATION:
; APPLICANT: Pompeius, Markus
; APPLICANT: Kroger, Burkhard
; APPLICANT: Schroder, Hartwig
; APPLICANT: Zelder, Oskar
; APPLICANT: Haberer, Gregor
; APPLICANT: Lee, Heung-Shick
; APPLICANT: Kim, Hyung-Joon
; TITLE OF INVENTION: CORYNEBACTERIUM GLUTAMICUM GENES ENCODING STRESS,
; TITLE OF INVENTION: RESISTANCE AND TOLERANCE PROTEINS
; FILE REFERENCE: BGI-124PCN
; CURRENT APPLICATION NUMBER: US/10/703,799B
; CURRENT FILING DATE: 2003-11-07
; PRIOR APPLICATION NUMBER: 09/603,208
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; PRIOR FILING DATE: 2000-06-23
; PRIOR APPLICATION NUMBER: 60/141031
; PRIOR FILING DATE: 1999-06-25
; PRIOR APPLICATION NUMBER: 60/142692
; PRIOR FILING DATE: 1999-07-01
; PRIOR APPLICATION NUMBER: 60/151214
; PRIOR FILING DATE: 1999-08-27
; PRIOR APPLICATION NUMBER: DE 19930429.7
; PRIOR FILING DATE: 1999-07-01
; PRIOR APPLICATION NUMBER: DE 19931413.6
; PRIOR FILING DATE: 1999-07-08
; PRIOR APPLICATION NUMBER: DE 19931457.8
; PRIOR FILING DATE: 1999-07-08
; PRIOR APPLICATION NUMBER: DE 19931541.8
; PRIOR FILING DATE: 1999-07-08
; PRIOR APPLICATION NUMBER: DE 19932209.0
; PRIOR FILING DATE: 1999-07-09
; PRIOR APPLICATION NUMBER: DE 19932230.9
; PRIOR FILING DATE: 1999-07-09
; Remaining Prior Application data removed - See File Wrapper or PALM..
; NUMBER OF SEQ ID NOS: 306
; SEQ ID NO 42
; LENGTH: 449
; TYPE: PRT
; ORGANISM: Corynebacterium glutamicum
US-10-703-799B-42

Query Match      75.0%; Score 33; DB 9; Length 449;
Best Local Similarity 87.5%; Pred. No. 44;
Matches 7; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy      1 QLFNTLS 8
        |||:||||
Db      354 QLFMDTSL 361

RESULT 11
US-11-188-298-4363
; Sequence 4363, Application US/11188298
; Publication No. US20060075222A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
; FILE REFERENCE: 38-21(53452)B
; CURRENT APPLICATION NUMBER: US/11/188,298
; PRIOR FILING DATE: 2005-07-22
; PRIOR APPLICATION NUMBER: 60/592,978
; PRIOR FILING DATE: 2004-07-31
; NUMBER OF SEQ ID NOS: 22569
; SEQ ID NO 4363
; LENGTH: 690
; TYPE: PRT
; ORGANISM: Neurospora crassa
US-11-188-298-4363

Query Match      75.0%; Score 33; DB 11; Length 690;
Best Local Similarity 77.8%; Pred. No. 69;
Matches 7; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy      1 QLFNTLSF 9
        |||:||||
Db      621 QLFMDRSLF 629

RESULT 12
US-11-264-096-1051
; Sequence 1051, Application US/11264096
; Publication No. US20060084794A1
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: Albumin Fusion Proteins
; FILE REFERENCE: PFS46D1
; CURRENT APPLICATION NUMBER: US/11/264,096
```


CURRENT FILING DATE: 2005-11-02
PRIOR APPLICATION NUMBER: 09/833,245
PRIOR FILING DATE: 2001-04-12
PRIOR APPLICATION NUMBER: 60/229, 358
PRIOR FILING DATE: 2000-04-12
PRIOR APPLICATION NUMBER: 60/256, 931
PRIOR FILING DATE: 2000-12-21
PRIOR APPLICATION NUMBER: 60/199, 384
PRIOR FILING DATE: 2000-04-25
NUMBER OF SEQ ID NOS: 2267
SOFTWARE: Patent In Ver. 2.1
SEQ ID NO 1051
LENGTH: 63
TYPE: PRT
ORGANISM: Homo sapiens
NAME/KEY: SITE
LOCATION: (54)
OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
US-11-264-096-1051

Query Match 72.7%; Score 32; DB 11; Length 63;
Best Local Similarity 77.8%; Pred. No. 8.8;
Matches 7; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 QLFNTLSF 9
|||
Db 8 QRFNLTLSF 16

RESULT 13
US-11-264-096-1052
Sequence 1052, Application US/11264096
Publication No. US20060084794A1.
GENERAL INFORMATION:
APPLICANT: Rosen et al.
TITLE OF INVENTION: Albinin Fusion Proteins
FILE REFERENCE: PFS46D1
CURRENT APPLICATION NUMBER: US/11/264,096
CURRENT FILING DATE: 2005-11-02
PRIOR APPLICATION NUMBER: 09/833,245
PRIOR FILING DATE: 2001-04-12
PRIOR APPLICATION NUMBER: 60/229, 358
PRIOR FILING DATE: 2000-04-12
PRIOR APPLICATION NUMBER: 60/256, 931
PRIOR FILING DATE: 2000-12-21
PRIOR APPLICATION NUMBER: 60/199, 384
PRIOR FILING DATE: 2000-04-25
NUMBER OF SEQ ID NOS: 2267
SOFTWARE: Patent In Ver. 2.1
SEQ ID NO 1052
LENGTH: 63
TYPE: PRT
ORGANISM: Homo sapiens
US-11-264-096-1052

Query Match 72.7%; Score 32; DB 11; Length 63;
Best Local Similarity 77.8%; Pred. No. 8.8;
Matches 7; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 QLFNTLSF 9
|||
Db 8 QRFNLTLSF 16

RESULT 14
US-11-188-298-887
Sequence 887, Application US/11188298
Publication No. US20060075522A1
GENERAL INFORMATION:
APPLICANT: Adad, Mark S. et al.
TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
FILE REFERENCE: 38-21(53452)B

CURRENT APPLICATION NUMBER: US/11/188,298
CURRENT FILING DATE: 2005-07-22
PRIOR APPLICATION NUMBER: 60/592,978
PRIOR FILING DATE: 2004-07-31
NUMBER OF SEQ ID NOS: 22569
SEQ ID NO 887
LENGTH: 759
TYPE: PRT
ORGANISM: Paracoccidioides brasiliensis
US-11-188-298-887

Query Match 72.7%; Score 32; DB 11; Length 759;
Best Local Similarity 66.7%; Pred. No. 1.2e+02;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 QLFNTLSF 9
|||
Db 482 QLFYNTLSY 490

RESULT 15
US-10-467-657-3932
Sequence 3932, Application US/10467657
Publication No. US20050260581A1
GENERAL INFORMATION:
APPLICANT: CHIRON SPA
APPLICANT: FONTANA Maria Rita
APPLICANT: PIZZA Mariagrazia
APPLICANT: MASIGNANI Vega
APPLICANT: MONACI Elisabetta
TITLE OF INVENTION: CONOCOCCAL PROTEINS AND NUCLEIC ACIDS
FILE REFERENCE:
CURRENT APPLICATION NUMBER: US/10/467,657
CURRENT FILING DATE: 2003-08-11
PRIOR APPLICATION NUMBER: GB-0103424.8
PRIOR FILING DATE: 2001-02-12
NUMBER OF SEQ ID NOS: 9218
SOFTWARE: Seqwin99, version 1.04
SEQ ID NO 3932
LENGTH: 49
TYPE: PRT
ORGANISM: Neisseria gonorrhoeae
US-10-467-657-3932

Query Match 70.5%; Score 31; DB 9; Length 49;
Best Local Similarity 75.0%; Pred. No. 11;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 2 LFNLTLSF 9
|||
Db 20 LFMKLTLSF 27

RESULT 16
US-10-793-626-2980
Sequence 2980, Application US/10793626
Publication No. US20050255478A1
GENERAL INFORMATION:
APPLICANT: KIMBERLY, WILLIAM JOHN
TITLE OF INVENTION: STRAPHYLOCCUS EPIDERMIDIS NUCLEIC ACIDS AND PROTEINS
FILE REFERENCE: PUS480US
CURRENT APPLICATION NUMBER: US/10/793,626
CURRENT FILING DATE: 2004-03-04
PRIOR APPLICATION NUMBER: 60/164,258
PRIOR FILING DATE: 1999-11-09
NUMBER OF SEQ ID NOS: 4472
SOFTWARE: Patent In Ver. 2.1
SEQ ID NO 2980
LENGTH: 302
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: synthetic

OTHER INFORMATION: amino acid sequence
US-10-793-626-2980

Query Match 70.5%; Score 31; DB 9; Length 302;
Best Local Similarity 75.0%; Pred. No. 74;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 2 LPLNTLSF 9
DB 293 LPLNLSY 300

RESULT 17
US-10-511-314-19

Sequence 19, Application US/10511314
Publication No. US20050272633A1
GENERAL INFORMATION:
APPLICANT: Yeda Research and Development Co. Ltd.
APPLICANT: Shmushkovich, Taisia
APPLICANT: Ramakrishnan, Parameswaran
TITLE OF INVENTION: Derivatives of NIX, their production and use
FILE REFERENCE: 814
CURRENT APPLICATION NUMBER: US/10/511,314
CURRENT FILING DATE: 2004-10-15
PRIOR APPLICATION NUMBER: 149217
PRIOR FILING DATE: 2002-04-18
PRIOR APPLICATION NUMBER: 152183
PRIOR FILING DATE: 2002-10-08
NUMBER OF SEQ ID NOS: 19
SOFTWARE: PatentIn version 3.1
SEQ ID NO 19
LENGTH: 324
TYPE: PRT
ORGANISM: Homo sapiens
US-10-511-314-19

Query Match 70.5%; Score 31; DB 9; Length 324;
Best Local Similarity 75.0%; Pred. No. 79;
Matches 6; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 1 QLFNTLS 8
DB 153 ELFLNLS 160

RESULT 18
US-10-511-722-19

Sequence 19, Application US/10511722
Publication No. US20050287144A1
GENERAL INFORMATION:
APPLICANT: Yeda Research and Development Co. Ltd.
APPLICANT: Wallach, David
APPLICANT: Shmushkovich, Taisia
APPLICANT: Ramakrishnan, Parameswaran
TITLE OF INVENTION: Derivatives of the IL-2 receptor Gamma chain, their preparation a
FILE REFERENCE: 530
CURRENT APPLICATION NUMBER: US/10/511,722
CURRENT FILING DATE: 2004-10-18
PRIOR APPLICATION NUMBER: 149217
PRIOR FILING DATE: 2002-04-18
PRIOR APPLICATION NUMBER: 152183
PRIOR FILING DATE: 2002-10-08
NUMBER OF SEQ ID NOS: 21
SOFTWARE: PatentIn version 3.1
SEQ ID NO 19
LENGTH: 324
TYPE: PRT
ORGANISM: Homo sapiens
US-10-511-722-19

Query Match 70.5%; Score 31; DB 9; Length 324;
Best Local Similarity 75.0%; Pred. No. 79;

Matches 6; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 1 QLFNTLS 8
DB 153 ELFLNLS 160

RESULT 19
US-11-302-262-20

Sequence 20, Application US/11302262
Publication No. US20060090219A1
GENERAL INFORMATION:
APPLICANT: Ajinomoto Co., Inc.
TITLE OF INVENTION: A method of improving growth and yield of plants under reduced
FILE REFERENCE: OP05262
CURRENT APPLICATION NUMBER: US/11/302,262
CURRENT FILING DATE: 2005-12-14
PRIOR APPLICATION NUMBER: JP 2003-198559
PRIOR FILING DATE: 2003-07-17
NUMBER OF SEQ ID NOS: 20
SOFTWARE: PatentIn version 3.2
SEQ ID NO 20
LENGTH: 396
TYPE: PRT
ORGANISM: Escherichia coli
US-11-302-262-20

Query Match 70.5%; Score 31; DB 10; Length 396;
Best Local Similarity 85.7%; Pred. No. 98;
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 QLFNTL 7
DB 323 QLFVNTL 329

RESULT 20
US-11-114-922-76

Sequence 76, Application US/11114922
Publication No. US20050282260A1
GENERAL INFORMATION:
APPLICANT: HICKS, PAULA M.
APPLICANT: MCFARLAN, SARA C.
TITLE OF INVENTION: POLYPEPTIDES AND BIOSYNTHETIC PATHWAYS FOR THE
FILE REFERENCE: 023829-0396
CURRENT APPLICATION NUMBER: US/11/114,922
CURRENT FILING DATE: 2005-04-26
PRIOR APPLICATION NUMBER: 10/422,366
PRIOR FILING DATE: 2003-04-23
PRIOR APPLICATION NUMBER: 60/374,831
PRIOR FILING DATE: 2002-04-23
NUMBER OF SEQ ID NOS: 91
SOFTWARE: PatentIn Ver. 3.3
SEQ ID NO 76
LENGTH: 396
TYPE: PRT
ORGANISM: Escherichia coli
US-11-114-922-76

Query Match 70.5%; Score 31; DB 11; Length 396;
Best Local Similarity 85.7%; Pred. No. 98;
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 QLFNTL 7
DB 323 QLFVNTL 329

RESULT 21
US-10-511-989-175

Sequence 175, Application US/10511989

```
Publication No. US20060053496A1
GENERAL INFORMATION:
APPLICANT: University of North Carolina-Chapel Hill
APPLICANT: Ting, Jenny
APPLICANT: Linhoff, Michael
APPLICANT: Hatten, Johnathan
APPLICANT: Williams, Kristi
APPLICANT: Lich, John
APPLICANT: O'Connor, William
APPLICANT: Moore, Christopher
APPLICANT: Davis, Beckley
APPLICANT: Brickey, W. Jane
APPLICANT: Conti, Brian
APPLICANT: Zhang, Jinghua
APPLICANT: Zhu, Xin-Sheng
TITLE OF INVENTION: CATERPILLER GENE FAMILY
FILE REFERENCE: 5470.368W
CURRENT APPLICATION NUMBER: US/10/511,989
CURRENT FILING DATE: 2004-10-21
PRIOR APPLICATION NUMBER: US 60/376,626
PRIOR FILING DATE: 2002-04-30
NUMBER OF SEQ ID NOS: 186
SOFTWARE: Patent version 3.2
SEQ ID NO 175
LENGTH: 467
TYPE: PRT
ORGANISM: Homo sapiens
US-10-511-989-175

Query Match
Best Local Similarity 70.5%; Score 31; DB 9; Length 467;
Pred. No. 1.2e+02;
Matches 6; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 2 LFLNTLSF 9
DB 274 LFLNTLSF 281

RESULT 22
US-11-188-298-4397
Sequence 4397, Application US/11188298
Publication No. US20060075522A1
GENERAL INFORMATION:
APPLICANT: Abad, Mark S. et al.
TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
FILE REFERENCE: 38-21(53452)B
CURRENT APPLICATION NUMBER: US/11/188,298
CURRENT FILING DATE: 2005-07-22
PRIOR APPLICATION NUMBER: 60/592,978
PRIOR FILING DATE: 2004-07-31
NUMBER OF SEQ ID NOS: 22569
SEQ ID NO 4397
LENGTH: 509
TYPE: PRT
ORGANISM: Oryza sativa (japonica cultivar-group)
US-11-188-298-4397

Query Match
Best Local Similarity 70.5%; Score 31; DB 11; Length 509;
Pred. No. 1.3e+02;
Matches 5; Conservative 3; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 QLFPLNTLS 8
DB 173 QLFPLNTLS 180
```

```
RESULT 23
US-11-188-298-19555
Sequence 19555, Application US/11188298
Publication No. US20060075522A1
GENERAL INFORMATION:
APPLICANT: Abad, Mark S. et al.
TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
```

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FILE REFERENCE: 38-21(53452)B
CURRENT APPLICATION NUMBER: US/11/188,298
CURRENT FILING DATE: 2005-07-22
PRIOR APPLICATION NUMBER: 60/592,978
PRIOR FILING DATE: 2004-07-31
NUMBER OF SEQ ID NOS: 22569
SEQ ID NO 19555
LENGTH: 534
TYPE: PRT
ORGANISM: Arabidopsis thaliana
US-11-188-298-19555

Query Match
Best Local Similarity 70.5%; Score 31; DB 11; Length 534;
Pred. No. 1.3e+02;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
```

```
QY 2 LFLNTLSF 9
DB 513 LFLNTLSF 520
```

```
RESULT 24
US-10-491-468-21
Sequence 21, Application US/10491468
Publication No. US20060051836A1
GENERAL INFORMATION:
APPLICANT: INCYTE CORPORATION; TANG, Y. TOM;
APPLICANT: FORSYTHE, Ian J.; EMERLING, Brooke M.;
APPLICANT: HAFALIA, April J.A.; YUE, Henry;
APPLICANT: XU, Yuming; GIETZEN, Kimberly J.;
APPLICANT: CHAWLA, Narinder K.; BAUGHN, Mariah D.;
APPLICANT: MARQUIS, Joseph P.; BECHA, Shanya D.;
APPLICANT: KABER, Amy E.; LAU, Preeti G.;
APPLICANT: RICHARDSON, Thomas W.; LEE, Soo Y.;
APPLICANT: LEE, Ernestine A.; TRAN, Bao;
APPLICANT: WARREN, Bridget A.; LU, Dying; Aina M.;
APPLICANT: GURURAJAN, Rajagopal; SPRAGUE, William W.;
APPLICANT: BLAKE, Julie J.; THANGAVELU, Kavitha;
APPLICANT: SWARNAKAR, Anita; GORVAD, Ann E.;
APPLICANT: GRIFFIN, Jennifer A.; LINDQUIST, Erika A.;
APPLICANT: ELLIOTT, Vicki S.; ISON, Craig H.;
APPLICANT: RAMKUMAR, Jayalaxmi
TITLE OF INVENTION: MOLECULES FOR DISEASE DETECTION AND TREATMENT
FILE REFERENCE: PP-1232 USN
CURRENT APPLICATION NUMBER: US/10/491,468
CURRENT FILING DATE: 2004-03-31
PRIOR APPLICATION NUMBER: PCT/US02/32852
PRIOR FILING DATE: 2002-10-10
PRIOR APPLICATION NUMBER: US 60/328,944
PRIOR FILING DATE: 2001-10-12
PRIOR APPLICATION NUMBER: US 60/345,384
PRIOR FILING DATE: 2001-10-26
PRIOR APPLICATION NUMBER: US 60/343,880
PRIOR FILING DATE: 2001-11-02
PRIOR APPLICATION NUMBER: US 60/345,143
PRIOR FILING DATE: 2001-11-09
PRIOR APPLICATION NUMBER: US 60/332,430
PRIOR FILING DATE: 2001-11-16
NUMBER OF SEQ ID NOS: 96
SOFTWARE: PERL Program
SEQ ID NO 21
LENGTH: 566
TYPE: PRT
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: misc feature
OTHER INFORMATION: incyte ID No: 5134056CD1
US-10-491-468-21

Query Match
Best Local Similarity 70.5%; Score 31; DB 9; Length 566;
Pred. No. 1.4e+02;
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
```

Oy 2 LPLNTLS 8
:|||||
Db 233 IPLNTLS 239

RESULT 25

US-11-188-298-20169
; Sequence 20169, Application US/11188298
; Publication No. US20060075522A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
; FILE REFERENCE: 38-21(53452)B
; CURRENT APPLICATION NUMBER: US/11/188,298
; CURRENT FILING DATE: 2005-07-22
; PRIOR APPLICATION NUMBER: 60/592,978
; PRIOR FILING DATE: 2004-07-31
; NUMBER OF SEQ ID NOS: 22569
; SEQ ID NO 20169
; LENGTH: 580
; TYPE: PRT
; ORGANISM: GIBBERELLA ZEAE PH-1
US-11-188-298-20169

Query Match 70.5%; Score 31; DB 11; Length 580;
Best Local Similarity 55.6%; Pred. No. 1.5e+02;
Matches 5; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

Oy 1 QPLNTLSF 9
:|||||
Db 345 QPLNTLNF 353

RESULT 26

US-11-188-298-9051
; Sequence 9051, Application US/11188298
; Publication No. US20060075522A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
; FILE REFERENCE: 38-21(53452)B
; CURRENT APPLICATION NUMBER: US/11/188,298
; CURRENT FILING DATE: 2005-07-22
; PRIOR APPLICATION NUMBER: 60/592,978
; PRIOR FILING DATE: 2004-07-31
; NUMBER OF SEQ ID NOS: 22569
; SEQ ID NO 9051
; LENGTH: 666
; TYPE: PRT
; ORGANISM: Oryza sativa
US-11-188-298-9051

Query Match 70.5%; Score 31; DB 11; Length 666;
Best Local Similarity 62.5%; Pred. No. 1.7e+02;
Matches 5; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

Oy 1 QPLNTLS 8
:|||||
Db 170 QPLNTLNF 177

RESULT 27

US-10-821-234-1002
; Sequence 1002, Application US/10821234
; Publication No. US20050255114A1
; GENERAL INFORMATION:
; APPLICANT: Labat, Ivan
; APPLICANT: Stache-Crain, Birgit
; APPLICANT: Andarmeni, Susan
; APPLICANT: Tang, Y. Tom
; TITLE OF INVENTION: Methods for Diagnosis and Treatment of Preeclampsia
; FILE REFERENCE: 821A
; CURRENT APPLICATION NUMBER: US/10/821,234

; CURRENT FILING DATE: 2004-04-07
; PRIOR APPLICATION NUMBER: US 60/462,047
; PRIOR FILING DATE: 2003-04-07
; NUMBER OF SEQ ID NOS: 1704
; SOFTWARE: pc_seq_genes Version 1.0
; SEQ ID NO 1002
; LENGTH: 795
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-821-234-1002

Query Match 70.5%; Score 31; DB 9; Length 795;
Best Local Similarity 66.7%; Pred. No. 2e+02;
Matches 6; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Oy 1 QPLNTLSF 9
:|||||
Db 184 QPLNTTGF 192

RESULT 28

US-10-530-253-38
; Sequence 38, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Cassecci, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M13-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 38
; LENGTH: 110
; TYPE: PRT
; ORGANISM: Human papillomavirus type 68
US-10-530-253-38

Query Match 68.2%; Score 30; DB 9; Length 110;
Best Local Similarity 55.6%; Pred. No. 40;
Matches 5; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

Oy 1 QPLNTLSF 9
:|||||
Db 92 QLFMDSLNF 100

RESULT 29

US-11-096-568A-3886
; Sequence 3886, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
; APPLICANT: Alexandrov, Nickolai et al.
; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
; FILE REFERENCE: 2750-1592PUS2
; CURRENT APPLICATION NUMBER: US/11/096,568A
; CURRENT FILING DATE: 2005-04-01
; NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 3886
; LENGTH: 114
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; NAME/KEY: miec feature
; LOCATION: (1)..(114)

OTHER INFORMATION: Ceres Seq. ID no. 13594111
US-11-096-568A-3886

Query Match 68.2%; Score 30; DB 11; Length 114;
Best Local Similarity 75.0%; Pred. No. 42;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 2 LPLNTLSF 9
DB 95 LPLQTLTF 102

RESULT 30
US-11-096-568A-3885
Sequence 3885, Application US/11096568A
Publication No. US20060048240A1

GENERAL INFORMATION:
APPLICANT: Alexandrov, Nickolai et al.
TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides

FILE REFERENCE: 2750-1592PUS2

CURRENT APPLICATION NUMBER: US/11/096,568A

CURRENT FILING DATE: 2005-04-01

NUMBER OF SEQ ID NOS: 34471

SEQ ID NO 3885

LENGTH: 172

TYPE: PRT

ORGANISM: Glycine max

FEATURE:
NAME/KEY: misc_feature

LOCATION: (1)..(172)

OTHER INFORMATION: Ceres Seq. ID no. 13594110

US-11-096-568A-3885

Query Match 68.2%; Score 30; DB 11; Length 172;
Best Local Similarity 75.0%; Pred. No. 65;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 2 LPLNTLSF 9
DB 153 LPLQTLTF 160

RESULT 31

US-11-096-568A-3884

Sequence 3884, Application US/11096568A
Publication No. US20060048240A1

GENERAL INFORMATION:
APPLICANT: Alexandrov, Nickolai et al.

TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides

FILE REFERENCE: 2750-1592PUS2

CURRENT APPLICATION NUMBER: US/11/096,568A

CURRENT FILING DATE: 2005-04-01

NUMBER OF SEQ ID NOS: 34471

SEQ ID NO 3884

LENGTH: 186

TYPE: PRT

ORGANISM: Glycine max

FEATURE:
NAME/KEY: misc_feature

LOCATION: (1)..(186)

OTHER INFORMATION: Ceres Seq. ID no. 13594109

US-11-096-568A-3884

Query Match 68.2%; Score 30; DB 11; Length 186;
Best Local Similarity 75.0%; Pred. No. 70;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 2 LPLNTLSF 9
DB 167 LPLQTLTF 174

RESULT 32
US-11-188-298-4176
Sequence 4176, Application US/11188298
Publication No. US20060075522A1

GENERAL INFORMATION:
APPLICANT: Abad, Mark S. et al.

TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT

FILE REFERENCE: 38-21(53452)B

CURRENT APPLICATION NUMBER: US/11/188,298

CURRENT FILING DATE: 2005-07-22

PRIOR APPLICATION NUMBER: 60/592,978

PRIOR FILING DATE: 2004-07-31

NUMBER OF SEQ ID NOS: 22569

SEQ ID NO 4176

LENGTH: 242

TYPE: PRT

ORGANISM: Oryza sativa

US-11-188-298-4176

Query Match 68.2%; Score 30; DB 11; Length 242;
Best Local Similarity 66.7%; Pred. No. 93;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 QPLNTLSF 9
DB 94 KLILNTLQF 102

RESULT 33

US-11-087-099-6581

Sequence 6581, Application US/11087099
Publication No. US20060041961A1

GENERAL INFORMATION:
APPLICANT: Abad, Mark S. et al.

TITLE OF INVENTION: Genes and Uses for Plant Improvement

FILE REFERENCE: 38-21(53450)B EP

CURRENT APPLICATION NUMBER: US/11/087,099

CURRENT FILING DATE: 2005-03-22

NUMBER OF SEQ ID NOS: 12464

SEQ ID NO 6581

LENGTH: 356

TYPE: PRT

ORGANISM: Triticum aestivum

US-11-087-099-6581

Query Match 68.2%; Score 30; DB 11; Length 356;
Best Local Similarity 85.7%; Pred. No. 1,4e+02;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 QPLNTL 7
DB 127 QLEFNTL 133

RESULT 34

US-11-096-568A-23125

Sequence 23125, Application US/11096568A
Publication No. US20060048240A1

GENERAL INFORMATION:
APPLICANT: Alexandrov, Nickolai et al.

TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides

FILE REFERENCE: 2750-1592PUS2

CURRENT APPLICATION NUMBER: US/11/096,568A

CURRENT FILING DATE: 2005-04-01

NUMBER OF SEQ ID NOS: 34471

SEQ ID NO 23125

LENGTH: 401

TYPE: PRT

ORGANISM: Zea mays subsp. mays

FEATURE:
NAME/KEY: misc_feature

```
; LOCATION: (1)..(401)
; OTHER INFORMATION: Ceres Seq. ID no. 12411352
US-11-096-568A-23125

Query Match
Best Local Similarity 68.2%; Score 30; DB 11; Length 401;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Qy 1 QLFINTLSF 9
Db 255 KLIINTLOF 263

RESULT 35
US-11-096-568A-21885
; Sequence 21885, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
; APPLICANT: Alexandrov, Nikolai et al.
; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
; FILE REFERENCE: 2750-1592PUS2
; CURRENT APPLICATION NUMBER: US/11/096,568A
; CURRENT FILING DATE: 2005-04-01
; NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 21885
; LENGTH: 403
; TYPE: PRT
; ORGANISM: Zea mays subsp. mays
; FEATURE:
; NAME/KEY: misc.feature
; LOCATION: (1)..(403)
; OTHER INFORMATION: Ceres Seq. ID no. 12406637
US-11-096-568A-21885

Query Match
Best Local Similarity 68.2%; Score 30; DB 11; Length 403;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Qy 1 QLFINTLSF 9
Db 256 KLIINTLOF 264

RESULT 36
US-11-188-298-21499
; Sequence 21499, Application US/11188298
; Publication No. US20060075522A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
; FILE REFERENCE: 38-21(53452)B
; CURRENT APPLICATION NUMBER: US/11/188,298
; CURRENT FILING DATE: 2005-07-22
; PRIOR APPLICATION NUMBER: 60/592,978
; PRIOR FILING DATE: 2004-07-31
; NUMBER OF SEQ ID NOS: 22569
; SEQ ID NO 21499
; LENGTH: 410
; TYPE: PRT
; ORGANISM: Oryza sativa
US-11-188-298-21499

Query Match
Best Local Similarity 68.2%; Score 30; DB 11; Length 410;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Qy 1 QLFINTLSF 9
Db 272 KLIINTLOF 280

RESULT 37
```

```
US-11-188-298-13229
; Sequence 13229, Application US/11188298
; Publication No. US20060075522A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
; FILE REFERENCE: 38-21(53452)B
; CURRENT APPLICATION NUMBER: US/11/188,298
; CURRENT FILING DATE: 2005-07-22
; PRIOR APPLICATION NUMBER: 60/592,978
; PRIOR FILING DATE: 2004-07-31
; NUMBER OF SEQ ID NOS: 22569
; SEQ ID NO 13229
; LENGTH: 419
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)..(419)
; OTHER INFORMATION: unsure at all Xaa locations
US-11-188-298-13229

Query Match
Best Local Similarity 68.2%; Score 30; DB 11; Length 419;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Qy 1 QLFINTLSF 9
Db 273 KLIINTLOF 281

RESULT 38
US-11-188-298-4066
; Sequence 4066, Application US/11188298
; Publication No. US20060075522A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
; FILE REFERENCE: 38-21(53452)B
; CURRENT APPLICATION NUMBER: US/11/188,298
; CURRENT FILING DATE: 2005-07-22
; PRIOR APPLICATION NUMBER: 60/592,978
; PRIOR FILING DATE: 2004-07-31
; NUMBER OF SEQ ID NOS: 22569
; SEQ ID NO 4066
; LENGTH: 420
; TYPE: PRT
; ORGANISM: Oryza sativa
US-11-188-298-4066

Query Match
Best Local Similarity 68.2%; Score 30; DB 11; Length 420;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Qy 1 QLFINTLSF 9
Db 272 KLIINTLOF 280

RESULT 39
US-11-188-298-8750
; Sequence 8750, Application US/11188298
; Publication No. US20060075522A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
; FILE REFERENCE: 38-21(53452)B
; CURRENT APPLICATION NUMBER: US/11/188,298
; CURRENT FILING DATE: 2005-07-22
; PRIOR APPLICATION NUMBER: 60/592,978
; PRIOR FILING DATE: 2004-07-31
; NUMBER OF SEQ ID NOS: 22569
; SEQ ID NO 8750
```

LENGTH: 420
TYPE: PRT
ORGANISM: Oryza sativa (japonica cultivar-group)
US-11-188-298-8750

Query Match 68.2%; Score 30; DB 11; Length 420;
Best Local Similarity 66.7%; Pred. No. 1.7e+02;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 QLFNTLSF 9
DB 272 KLINTLOF 280

RESULT 40
US-11-188-298-13282
Sequence 13282, Application US/11188298
Publication No. US20060075522A1
GENERAL INFORMATION:
APPLICANT: Abad, Mark S. et al.
TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
FILE REFERENCE: 38-21(53452)B
CURRENT FILING DATE: 2005-07-22
PRIOR APPLICATION NUMBER: 60/592,978
PRIOR FILING DATE: 2004-07-31
NUMBER OF SEQ ID NOS: 22569
SEQ ID NO 13282
LENGTH: 420
TYPE: PRT
ORGANISM: Oryza sativa
US-11-188-298-13282

Query Match 68.2%; Score 30; DB 11; Length 420;
Best Local Similarity 66.7%; Pred. No. 1.7e+02;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 QLFNTLSF 9
DB 272 KLINTLOF 280

RESULT 41
US-11-096-568A-23124
Sequence 23124, Application US/11096568A
Publication No. US20060048240A1
GENERAL INFORMATION:
APPLICANT: Alexandrov, Nikolai et al.
TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
FILE REFERENCE: 2750-1592PUS2
CURRENT APPLICATION NUMBER: US/11/096,568A
CURRENT FILING DATE: 2005-04-01
NUMBER OF SEQ ID NOS: 34471
SEQ ID NO 23124
LENGTH: 424
TYPE: PRT
ORGANISM: Zea mays subsp. mays
FEATURE:
NAME/KEY: misc feature
LOCATION: (1)-(424)
OTHER INFORMATION: Ceres Seq. ID no. 12411351
US-11-096-568A-23124

Query Match 68.2%; Score 30; DB 11; Length 424;
Best Local Similarity 66.7%; Pred. No. 1.7e+02;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 QLFNTLSF 9
DB 278 KLINTLOF 286

RESULT 42
US-11-188-298-2128

Sequence 2128, Application US/11188298
Publication No. US20060075522A1
GENERAL INFORMATION:
APPLICANT: Abad, Mark S. et al.
TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
FILE REFERENCE: 38-21(53452)B
CURRENT FILING DATE: 2005-07-22
PRIOR APPLICATION NUMBER: 60/592,978
PRIOR FILING DATE: 2004-07-31
NUMBER OF SEQ ID NOS: 22569
SEQ ID NO 2128
LENGTH: 424
TYPE: PRT
ORGANISM: Zea mays
US-11-188-298-2128

Query Match 68.2%; Score 30; DB 11; Length 424;
Best Local Similarity 66.7%; Pred. No. 1.7e+02;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 QLFNTLSF 9
DB 278 KLINTLOF 286

RESULT 43
US-11-188-298-12182
Sequence 12182, Application US/11188298
Publication No. US20060075522A1
GENERAL INFORMATION:
APPLICANT: Abad, Mark S. et al.
TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
FILE REFERENCE: 38-21(53452)B
CURRENT FILING DATE: 2005-07-22
PRIOR APPLICATION NUMBER: 60/592,978
PRIOR FILING DATE: 2004-07-31
NUMBER OF SEQ ID NOS: 22569
SEQ ID NO 12182
LENGTH: 424
TYPE: PRT
ORGANISM: Zea mays
US-11-188-298-12182

Query Match 68.2%; Score 30; DB 11; Length 424;
Best Local Similarity 66.7%; Pred. No. 1.7e+02;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 QLFNTLSF 9
DB 278 KLINTLOF 286

RESULT 44
US-11-188-298-5065
Sequence 5065, Application US/11188298
Publication No. US20060075522A1
GENERAL INFORMATION:
APPLICANT: Abad, Mark S. et al.
TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
FILE REFERENCE: 38-21(53452)B
CURRENT APPLICATION NUMBER: US/11/188,298
CURRENT FILING DATE: 2005-07-22
PRIOR APPLICATION NUMBER: 60/592,978
PRIOR FILING DATE: 2004-07-31
NUMBER OF SEQ ID NOS: 22569
SEQ ID NO 5065
LENGTH: 425
TYPE: PRT
ORGANISM: Zea mays

US-11-188-298-5065

Query Match 68.2% Score 30; DB 11; Length 425;
Best Local Similarity 66.7% Pred. No. 1.7e+02;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Qy 1 QLFNTLSF 9
: |||||
Db 278 KLINTLQF 286

RESULT 45

US-11-096-568A-21884
; Sequence 21884, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
; APPLICANT: Alexandrov, Nikolai et al.
; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
; FILE REFERENCE: 2750-1592PUS2
; CURRENT APPLICATION NUMBER: US/11/096,568A
; CURRENT FILING DATE: 2005-04-01
; NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 21884
; LENGTH: 426
; TYPE: PRT
; ORGANISM: Zea mays subsp. mays
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)..(426)
; OTHER INFORMATION: Cerees Seq. ID no. 12406636
US-11-096-568A-21884

Query Match 68.2% Score 30; DB 11; Length 426;
Best Local Similarity 66.7% Pred. No. 1.7e+02;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Qy 1 QLFNTLSF 9
: |||||
Db 279 KLINTLQF 287

RESULT 46

US-11-188-298-16046
; Sequence 16046, Application US/11188298
; Publication No. US20060075522A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
; FILE REFERENCE: 38-21(53452)B
; CURRENT APPLICATION NUMBER: US/11/188,298
; CURRENT FILING DATE: 2005-07-22
; PRIOR APPLICATION NUMBER: 60/592,978
; PRIOR FILING DATE: 2004-07-31
; NUMBER OF SEQ ID NOS: 22569
; SEQ ID NO 16046
; LENGTH: 426
; TYPE: PRT
; ORGANISM: Zea mays
US-11-188-298-16046

Query Match 68.2% Score 30; DB 11; Length 426;
Best Local Similarity 66.7% Pred. No. 1.7e+02;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Qy 1 QLFNTLSF 9
: |||||
Db 279 KLINTLQF 287

RESULT 47

US-11-096-568A-21883
; Sequence 21883, Application US/11096568A

Publication No. US20060048240A1

; GENERAL INFORMATION:
; APPLICANT: Alexandrov, Nikolai et al.
; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
; FILE REFERENCE: 2750-1592PUS2
; CURRENT APPLICATION NUMBER: US/11/096,568A
; CURRENT FILING DATE: 2005-04-01
; NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 21883
; LENGTH: 468
; TYPE: PRT
; ORGANISM: Zea mays subsp. mays
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)..(468)
; OTHER INFORMATION: Cerees Seq. ID no. 12406635
US-11-096-568A-21883

Query Match 68.2% Score 30; DB 11; Length 468;
Best Local Similarity 66.7% Pred. No. 1.9e+02;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Qy 1 QLFNTLSF 9
: |||||
Db 321 KLINTLQF 329

RESULT 48

US-10-505-928-167
; Sequence 167, Application US/10505928
; Publication No. US20060088532A1
; GENERAL INFORMATION:
; APPLICANT: Ludwig, Institute for Cancer Research et al.
; TITLE OF INVENTION: LYMPHATIC ENDOTHELIAL GENES
; FILE REFERENCE: 28967/39178
; CURRENT APPLICATION NUMBER: US/10/505,928
; CURRENT FILING DATE: 2004-08-27
; PRIOR APPLICATION NUMBER: US 60/363,019
; PRIOR FILING DATE: 2002-03-07
; NUMBER OF SEQ ID NOS: 866
; SOFTWARE: PatentIn 3.2
; SEQ ID NO 167
; LENGTH: 493
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-505-928-167

Query Match 68.2% Score 30; DB 8; Length 493;
Best Local Similarity 66.7% Pred. No. 2e+02;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Qy 1 QLFNTLSF 9
: |||||
Db 182 QLFNTLSF 190

RESULT 49

US-11-079-463-9784
; Sequence 9784, Application US/11079463
; Publication No. US20060073161A1
; GENERAL INFORMATION:
; APPLICANT: Gary L. Bretton
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO BACTERIOIDES FRAC
; FILE REFERENCE: PAT00-03DIV2
; CURRENT APPLICATION NUMBER: US/11/079,463
; CURRENT FILING DATE: 2005-03-14
; PRIOR APPLICATION NUMBER: US 60/128,705
; PRIOR FILING DATE: 1999-04-09
; PRIOR APPLICATION NUMBER: US 09/540,209
; PRIOR FILING DATE: 2000-04-04
; NUMBER OF SEQ ID NOS: 10444

SEQ ID NO 9784
LENGTH: 514
TYPE: PRT
ORGANISM: B. fragilis
US-11-079-463-9784

Query Match 68.2%; Score 30; DB 11; Length 514;
Best Local Similarity 66.7%; Pred. No. 2.1e+02;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 QPLNTLSF 9
: |||||
Db 200 RLNTLDF 208

RESULT 50
US-11-188-298-1441
Sequence 1441, Application US/11188298
Publication No. US20060075522A1
GENERAL INFORMATION:
APPLICANT: Abad, Mark S. et al.
TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
FILE REFERENCE: 38-21(53452)B
CURRENT APPLICATION NUMBER: US/11/188,298
CURRENT FILING DATE: 2005-07-22
PRIOR APPLICATION NUMBER: 60/592,978
PRIOR FILING DATE: 2004-07-31
NUMBER OF SEQ ID NOS: 22569
SEQ ID NO 1441
LENGTH: 515
TYPE: PRT
ORGANISM: Agrobacterium tumefaciens str. C58
US-11-188-298-1441

Query Match 68.2%; Score 30; DB 11; Length 515;
Best Local Similarity 75.0%; Pred. No. 2.1e+02;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 2 LPLNTLSF 9
: |||||
Db 107 LYNTLDF 114

Search completed: May 5, 2006, 07:45:52
Job time: 20.4 sec

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OM protein - protein search, using sw model

Run on: May 5, 2006, 01:33:35 ; Search time 18.2 Seconds
(without alignments)
40.884 Million cell updates/sec

Title: US-08-170-344-33
Perfect score: 43
Sequence: 1 LEMLTSFV 9

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 572060 seqs, 82675679 residues
Total number of hits satisfying chosen parameters: 572060

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 100 summaries

Database :
1: /cgn2_6/prodata/1/iaa/5.COMB.pep.*
2: /cgn2_6/prodata/1/iaa/6.COMB.pep.*
3: /cgn2_6/prodata/1/iaa/H.COMB.pep.*
4: /cgn2_6/prodata/1/iaa/PCITUS.COMB.pep.*
5: /cgn2_6/prodata/1/iaa/RE.COMB.pep.*
6: /cgn2_6/prodata/1/iaa/backfile1.pep.*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	43	100.0	29	1	US-08-934-915-66
2	43	100.0	227	2	US-09-485-885-16
3	43	100.0	227	2	US-09-485-885-19
4	43	100.0	272	1	US-08-117-083-13
5	43	100.0	363	2	US-09-485-885-23
6	35	81.4	263	2	US-09-902-540-16422
7	35	81.4	222	2	US-09-919-497-71
8	35	81.4	292	2	US-09-949-016-6771
9	35	81.4	324	2	US-09-949-016-7132
10	33	76.7	289	2	US-09-543-681A-4894
11	33	76.7	289	2	US-10-151-832-6
12	33	76.7	378	2	US-09-107-532A-6500
13	32	74.4	61	2	US-09-248-796A-27222
14	32	74.4	183	2	US-09-107-532A-5511
15	32	74.4	441	2	US-09-107-532A-4173
16	32	74.4	477	2	US-09-248-796A-26051
17	31	72.1	66	2	US-09-248-796A-22497
18	31	72.1	66	2	US-09-311-689B-42
19	31	72.1	66	2	US-09-311-689B-43
20	31	72.1	92	2	US-09-270-767-46770
21	31	72.1	127	2	US-09-270-767-45094
22	31	72.1	207	2	US-10-135-807-2
23	31	72.1	302	2	US-09-710-279-2980
24	31	72.1	350	2	US-09-134-001C-3383
25	31	72.1	434	2	US-09-328-352-4261
26	31	72.1	660	2	US-09-252-991A-22396
27	31	72.1	672	2	US-09-543-681A-5976

28	31	72.1	823	2	US-09-491-356C-23	Sequence 23, Appl
29	31	72.1	848	2	US-09-491-356C-22	Sequence 22, Appl
30	31	72.1	933	2	US-09-949-016-8386	Sequence 8386, Ap
31	31	72.1	953	2	US-09-949-016-8387	Sequence 8387, Ap
32	30	69.8	145	2	US-09-134-000C-5042	Sequence 5042, Ap
33	30	69.8	185	2	US-09-270-767-35241	Sequence 35241, A
34	30	69.8	185	2	US-09-270-767-50458	Sequence 50458, A
35	30	69.8	249	2	US-09-270-767-45034	Sequence 45034, A
36	30	69.8	283	2	US-09-270-767-61451	Sequence 61451, A
37	30	69.8	327	2	US-08-748-506-14	Sequence 14, Appl
38	30	69.8	327	2	US-08-748-506-24	Sequence 24, Appl
39	30	69.8	335	2	US-10-012-231A-33	Sequence 33, Appl
40	30	69.8	335	2	US-10-015-389A-33	Sequence 33, Appl
41	30	69.8	335	2	US-10-006-768A-33	Sequence 33, Appl
42	30	69.8	335	2	US-10-015-671A-33	Sequence 33, Appl
43	30	69.8	335	2	US-10-015-393A-33	Sequence 33, Appl
44	30	69.8	335	2	US-10-011-833A-33	Sequence 33, Appl
45	30	69.8	335	2	US-10-006-041A-33	Sequence 33, Appl
46	30	69.8	335	2	US-10-012-064A-33	Sequence 20, Appl
47	30	69.8	350	1	US-08-415-751-20	Sequence 5367, Ap
48	30	69.8	387	2	US-09-328-352-5367	Sequence 45465, A
49	30	69.8	441	2	US-09-270-767-45465	Sequence 3, Appl
50	30	69.8	452	1	US-08-984-171-3	Sequence 20352, A
51	30	69.8	576	2	US-09-248-796A-20352	Sequence 6, Appl
52	30	69.8	581	2	US-08-619-812-6	Sequence 9905, Ap
53	30	69.8	608	2	US-09-949-016-9905	Sequence 332, Ap
54	30	69.8	663	2	US-09-711-164-332	Sequence 13088, A
55	30	69.8	677	2	US-09-489-035A-13088	Sequence 42282, A
56	30	69.8	818	2	US-09-270-767-42292	Sequence 375, Ap
57	30	69.8	868	2	US-09-999-833A-375	Sequence 6888, Ap
58	30	69.8	816	2	US-10-020-445A-375	Sequence 21, Appl
59	30	69.8	823	2	US-09-491-355C-21	Sequence 20, Appl
60	30	69.8	836	2	US-09-491-355C-20	Sequence 28, Appl
61	30	69.8	843	2	US-09-491-355C-20	Sequence 60, Appl
62	30	69.8	2618	2	US-08-934-915-60	Sequence 5535, Ap
63	29	67.4	30	1	US-09-134-001C-5535	Sequence 8245, Ap
64	29	67.4	61	2	US-09-328-352-8245	Sequence 19, Appl
65	29	67.4	65	2	US-08-989-510A-19	Sequence 20, Appl
66	29	67.4	70	2	US-09-182-816-20	Sequence 20, Appl
67	29	67.4	70	2	US-09-471-528-20	Sequence 20, Appl
68	29	67.4	70	2	US-09-634-530-20	Sequence 24195, A
69	29	67.4	74	2	US-09-248-796A-24195	Sequence 27524, A
70	29	67.4	86	2	US-10-104-047-2869	Sequence 16843, Ap
71	29	67.4	100	2	US-09-252-991A-16843	Sequence 5228, Ap
72	29	67.4	129	2	US-09-328-352-5228	Sequence 24400, A
73	29	67.4	177	2	US-09-248-796A-24400	Sequence 200, Ap
74	29	67.4	193	2	US-09-605-703B-200	Sequence 3702, Ap
75	29	67.4	217	2	US-09-107-532A-3702	Sequence 19367, A
76	29	67.4	239	2	US-09-248-796A-19367	Sequence 3, Appl
77	29	67.4	247	1	US-08-465-980-3	Sequence 3, Appl
78	29	67.4	247	1	US-09-339-115-3	Sequence 3, Appl
79	29	67.4	247	1	US-09-339-115-3	Sequence 3, Appl
80	29	67.4	247	1	US-09-339-115-3	Sequence 3, Appl
81	29	67.4	247	1	US-09-339-115-3	Sequence 3, Appl
82	29	67.4	247	1	US-09-339-115-3	Sequence 3, Appl
83	29	67.4	247	1	US-09-339-115-3	Sequence 3, Appl
84	29	67.4	247	1	US-09-339-115-3	Sequence 3, Appl
85	29	67.4	247	1	US-09-339-115-3	Sequence 3, Appl
86	29	67.4	247	1	US-09-339-115-3	Sequence 3, Appl
87	29	67.4	247	1	US-09-339-115-3	Sequence 3, Appl
88	29	67.4	247	1	US-09-339-115-3	Sequence 3, Appl
89	29	67.4	247	1	US-09-339-115-3	Sequence 3, Appl
90	29	67.4	247	1	US-09-339-115-3	Sequence 3, Appl
91	29	67.4	247	1	US-09-339-115-3	Sequence 3, Appl
92	29	67.4	247	1	US-09-339-115-3	Sequence 3, Appl
93	29	67.4	247	1	US-09-339-115-3	Sequence 3, Appl
94	29	67.4	247	1	US-09-339-115-3	Sequence 3, Appl
95	29	67.4	247	1	US-09-339-115-3	Sequence 3, Appl
96	29	67.4	247	1	US-09-339-115-3	Sequence 3, Appl
97	29	67.4	247	1	US-09-339-115-3	Sequence 3, Appl
98	29	67.4	247	1	US-09-339-115-3	Sequence 3, Appl
99	29	67.4	247	1	US-09-339-115-3	Sequence 3, Appl
100	29	67.4	247	1	US-09-339-115-3	Sequence 3, Appl

101	29	67.4	293	2	US-09-605-703B-198	Sequence 198, App	174	28	65.1	196	2	US-10-101-464A-689	Sequence 689, App
102	29	67.4	293	1	PCT-US93-08528-60	Sequence 60, Appl	175	28	65.1	211	2	US-09-198-452A-1166	Sequence 1166, Ap
103	29	67.4	299	4	US-08-576-625A-35	Sequence 35, Appl	176	28	65.1	214	2	US-09-107-532A-6386	Sequence 6386, Ap
104	29	67.4	309	2	US-09-489-039A-8203	Sequence 8203, Ap	177	28	65.1	231	2	US-09-902-540-11312	Sequence 11312, A
105	29	67.4	312	2	US-09-674-741-18	Sequence 18, Appl	178	28	65.1	235	2	US-09-134-000C-9920	Sequence 9920, Ap
106	29	67.4	312	2	US-10-402-818-2	Sequence 2, Appl	179	28	65.1	265	2	US-09-538-092-537	Sequence 537, App
107	29	67.4	312	2	US-10-379-010-18	Sequence 18, Appl	180	28	65.1	277	2	US-09-270-767-38352	Sequence 38352, A
108	29	67.4	312	2	US-10-151-832-9	Sequence 9, Appl	181	28	65.1	277	2	US-09-270-767-53569	Sequence 53569, A
109	29	67.4	314	2	US-08-988-876-7	Sequence 7, Appl	182	28	65.1	288	2	US-09-902-540-12217	Sequence 12217, A
110	29	67.4	314	2	US-09-968-033C-5	Sequence 5, Appl	183	28	65.1	289	2	US-10-151-832-8	Sequence 8, Appl
111	29	67.4	333	2	US-08-988-876-6	Sequence 6, Appl	184	28	65.1	295	2	US-09-583-110-4841	Sequence 4841, Ap
112	29	67.4	333	2	US-09-270-767-46066	Sequence 46066, A	185	28	65.1	318	2	US-09-355-166-16	Sequence 16, Appl
113	29	67.4	345	2	US-09-248-796A-20049	Sequence 20049, A	186	28	65.1	327	1	US-08-118-270-55	Sequence 55, Appl
114	29	67.4	348	2	US-09-830-230A-154	Sequence 154, App	187	28	65.1	327	4	PCT-US93-08528-55	Sequence 55, Appl
115	29	67.4	350	2	US-10-402-818-4	Sequence 4, Appl	188	28	65.1	339	2	US-10-101-464A-899	Sequence 899, App
116	29	67.4	350	1	US-08-415-823-2	Sequence 2, Appl	189	28	65.1	357	2	US-10-104-047-3150	Sequence 3150, Ap
117	29	67.4	397	1	US-09-086-662-2	Sequence 2, Appl	190	28	65.1	379	2	US-09-107-532A-6904	Sequence 6904, Ap
118	29	67.4	400	2	US-09-830-230A-153	Sequence 153, App	191	28	65.1	383	2	US-09-434-774-12	Sequence 12, Appl
119	29	67.4	415	2	US-09-198-452A-567	Sequence 567, App	192	28	65.1	410	2	US-09-583-110-3963	Sequence 3963, Ap
120	29	67.4	415	2	US-09-438-185A-530	Sequence 530, App	193	28	65.1	414	1	US-07-667-276A-4	Sequence 4, Appl
121	29	67.4	424	2	US-09-496-444-2	Sequence 2, Appl	194	28	65.1	420	2	US-08-795-876-33	Sequence 33, Appl
122	29	67.4	430	2	US-09-182-816-28	Sequence 28, Appl	195	28	65.1	423	2	US-08-795-876-38	Sequence 38, Appl
123	29	67.4	430	2	US-09-471-528-28	Sequence 28, Appl	196	28	65.1	423	2	US-09-107-433-5202	Sequence 5202, Ap
124	29	67.4	430	2	US-09-634-530-28	Sequence 28, Appl	197	28	65.1	436	1	US-08-795-876-2	Sequence 2, Appl
125	29	67.4	449	2	US-09-603-208A-42	Sequence 42, Appl	198	28	65.1	448	2	US-09-543-681A-7245	Sequence 7245, Ap
126	29	67.4	465	2	US-09-182-816-23	Sequence 23, Appl	199	28	65.1	470	2	US-09-438-185A-209	Sequence 209, App
127	29	67.4	465	2	US-09-471-528-23	Sequence 23, Appl	200	28	65.1	476	2	US-09-800-170-19	Sequence 19, Appl
128	29	67.4	465	2	US-09-634-530-23	Sequence 23, Appl	201	28	65.1	488	2	US-09-248-796A-15101	Sequence 15101, A
129	29	67.4	469	2	US-09-134-000C-5065	Sequence 5065, Ap	202	28	65.1	504	2	US-10-104-047-2825	Sequence 2825, Ap
130	29	67.4	487	2	US-09-107-532A-6018	Sequence 6018, Ap	203	28	65.1	504	2	US-09-104-000C-4525	Sequence 4525, Ap
131	29	67.4	497	2	US-09-543-681A-6694	Sequence 6694, Ap	204	28	65.1	511	1	US-08-462-484-8	Sequence 8, Appl
132	29	67.4	511	2	US-09-107-532A-6112	Sequence 6112, Ap	205	28	65.1	511	1	US-08-441-147-8	Sequence 8, Appl
133	29	67.4	568	2	US-09-248-796A-22993	Sequence 22993, A	206	28	65.1	511	4	PCT-US95-07533-8	Sequence 8, Appl
134	29	67.4	598	2	US-09-949-016-6699	Sequence 6699, Ap	207	28	65.1	522	2	US-09-926-169-8	Sequence 8, Appl
135	29	67.4	617	2	US-09-949-016-10338	Sequence 10338, A	208	28	65.1	549	2	US-09-693-146-2	Sequence 8, Appl
136	29	67.4	619	2	US-08-813-150-6	Sequence 6, Appl	209	28	65.1	563	2	US-09-248-796A-18632	Sequence 18632, A
137	29	67.4	619	2	US-09-546-553-6	Sequence 6, Appl	210	28	65.1	583	2	US-09-270-767-38131	Sequence 38131, A
138	29	67.4	619	2	US-10-349-806-6	Sequence 6, Appl	211	28	65.1	617	2	US-09-107-532A-6828	Sequence 6828, Ap
139	29	67.4	626	2	US-09-949-016-6776	Sequence 6776, Ap	212	28	65.1	617	2	US-09-270-767-53363	Sequence 53363, A
140	29	67.4	697	2	US-09-949-016-9660	Sequence 9660, Ap	213	28	65.1	649	2	US-09-270-767-53363	Sequence 57363, A
141	29	67.4	713	2	US-09-248-796A-17911	Sequence 17911, A	214	28	65.1	661	1	US-10-104-047-2645	Sequence 2645, Ap
142	29	67.4	717	2	US-09-881-578A-2	Sequence 2, Appl	215	28	65.1	692	2	US-07-741-453A-60	Sequence 60, Appl
143	29	67.4	892	2	US-09-513-151A-4	Sequence 4, Appl	216	28	65.1	692	1	US-09-461-657B-6	Sequence 6, Appl
144	29	67.4	947	1	US-08-887-518-2	Sequence 2, Appl	217	28	65.1	695	1	US-08-487-886-2	Sequence 2, Appl
145	29	67.4	947	1	US-09-023-321-2	Sequence 2, Appl	218	28	65.1	695	2	US-08-487-886-2	Sequence 2, Appl
146	29	67.4	947	1	US-09-032-475-2	Sequence 2, Appl	219	28	65.1	695	2	US-08-474-986-2	Sequence 2, Appl
147	29	67.4	947	1	US-09-257-703-1	Sequence 1, Appl	220	28	65.1	723	2	US-09-248-796A-15245	Sequence 15245, A
148	29	67.4	947	2	US-09-871-889A-1	Sequence 1, Appl	221	28	65.1	731	2	US-07-741-453A-60	Sequence 60, Appl
149	29	67.4	947	2	US-09-981-397A-18	Sequence 18, Appl	222	28	65.1	764	2	US-09-270-767-44779	Sequence 44779, A
150	29	67.4	1380	2	US-09-252-991A-25722	Sequence 25722, A	223	28	65.1	798	2	US-09-228-986-72	Sequence 72, Appl
151	29	67.4	1571	2	US-09-902-540-11083	Sequence 11083, A	224	28	65.1	910	2	US-10-101-464A-72	Sequence 72, Appl
152	29	67.4	2636	2	US-09-252-991A-25753	Sequence 25753, A	225	28	65.1	910	2	US-08-609-049A-13	Sequence 13, Appl
153	29	67.4	3654	1	US-09-911-842A-4	Sequence 4, Appl	226	28	65.1	1658	1	US-09-134-000C-63345	Sequence 63345, Ap
154	29	67.4	3654	1	US-08-222-617A-13	Sequence 13, Appl	227	28	65.1	1658	2	US-09-248-796A-22982	Sequence 22982, A
155	29	67.4	3712	1	US-08-222-617A-4	Sequence 4, Appl	228	28	65.1	1686	2	US-10-092-219-2	Sequence 2, Appl
156	29	67.4	3712	1	US-08-222-617A-25	Sequence 25, Appl	229	28	65.1	1726	1	US-08-609-049A-30	Sequence 30, Appl
157	28	65.1	61	2	US-09-134-001C-4270	Sequence 4270, Ap	230	28	65.1	1726	2	US-09-170-996-30	Sequence 30, Appl
158	28	65.1	82	2	US-09-749-637A-176	Sequence 176, App	231	28	65.1	1726	2	US-09-252-991A-16642	Sequence 16642, A
159	28	65.1	82	2	US-09-749-637A-179	Sequence 179, App	232	28	65.1	2509	2	US-09-600-588-4	Sequence 4, Appl
160	28	65.1	83	2	US-09-749-637A-161	Sequence 161, App	233	27	62.8	14	2	US-09-471-276-1386	Sequence 1386, Ap
161	28	65.1	84	2	US-09-749-637A-158	Sequence 158, App	234	27	62.8	25	2	US-09-288-143-217	Sequence 217, App
162	28	65.1	84	2	US-09-749-637A-363	Sequence 363, App	235	27	62.8	46	2	US-09-513-999C-7455	Sequence 7455, Ap
163	28	65.1	102	2	US-09-270-767-40678	Sequence 40678, A	236	27	62.8	63	2	US-09-673-385A-398	Sequence 398, App
164	28	65.1	102	2	US-09-270-767-55894	Sequence 55894, A	237	27	62.8	64	2	US-09-134-000C-63345	Sequence 63345, Ap
165	28	65.1	107	2	US-09-248-796A-27787	Sequence 27787, A	238	27	62.8	71	2	US-09-248-796A-24334	Sequence 24334, Ap
166	28	65.1	108	2	US-09-248-796A-21145	Sequence 21145, A	239	27	62.8	83	2	US-09-248-796A-22982	Sequence 22982, A
167	28	65.1	112	2	US-09-513-999C-5698	Sequence 5698, Ap	240	27	62.8	83	2	US-09-513-999C-6626	Sequence 6626, Ap
168	28	65.1	123	2	US-09-107-532A-3923	Sequence 3923, Ap	241	27	62.8	85	2	US-09-103-478-27	Sequence 27, Appl
169	28	65.1	134	2	US-09-248-796A-25493	Sequence 25493, A	242	27	62.8	85	2	US-09-193-931C-27	Sequence 27, Appl
170	28	65.1	150	2	US-09-107-433-2970	Sequence 2970, Ap	243	27	62.8	85	2	US-09-516-052-37	Sequence 37, Appl
171	28	65.1	182	2	US-09-489-039A-14263	Sequence 14263, A	244	27	62.8	101	2	US-09-270-767-35313	Sequence 35313, A
172	28	65.1	192	2	US-09-248-796A-20050	Sequence 20050, A	245	27	62.8	101	2	US-09-270-767-35313	Sequence 35313, A
173	28	65.1	193	2	US-09-492-709A-290	Sequence 290, App	246	27	62.8	101	2	US-09-270-767-50530	Sequence 50530, A

247	27	62.8	102	2	US-09-438-185A-144	Sequence 144, App	320	27	62.8	346	2	US-09-979-603-2	Sequence 2, Appl
248	27	62.8	112	2	US-09-107-532A-4977	Sequence 4977, Ap	321	27	62.8	346	2	US-10-314-048A-14	Sequence 14, Appl
249	27	62.8	112	2	US-09-248-796A-25940	Sequence 25940, A	322	27	62.8	346	2	US-10-314-048A-88	Sequence 88, Appl
250	27	62.8	114	2	US-09-621-976-6093	Sequence 6093, Ap	323	27	62.8	346	2	US-09-328-352-4374	Sequence 4374, Ap
251	27	62.8	127	2	US-09-270-767-33138	Sequence 33138, A	324	27	62.8	355	2	US-09-711-164-417	Sequence 417, App
252	27	62.8	127	2	US-09-270-767-4835	Sequence 48355, A	325	27	62.8	355	2	US-09-288-143-211	Sequence 211, App
253	27	62.8	128	2	US-09-583-110-5185	Sequence 5185, Ap	326	27	62.8	358	2	US-09-248-796A-25048	Sequence 25048, A
254	27	62.8	128	2	US-09-270-767-37117	Sequence 37117, A	327	27	62.8	359	2	US-09-107-532A-6455	Sequence 6455, Ap
255	27	62.8	128	2	US-09-270-767-52934	Sequence 52934, A	328	27	62.8	360	2	US-09-489-039A-13654	Sequence 13654, A
256	27	62.8	158	2	US-09-543-681A-6919	Sequence 6919, Ap	329	27	62.8	364	2	US-09-008-687A-3	Sequence 3, Appl
257	27	62.8	162	2	US-09-621-976-4102	Sequence 4102, Ap	330	27	62.8	364	2	US-09-008-687A-12	Sequence 12, Appl
258	27	62.8	171	2	US-09-543-681A-8312	Sequence 8312, Ap	331	27	62.8	364	2	US-09-008-687A-12	Sequence 12, Appl
259	27	62.8	171	2	US-09-270-767-34163	Sequence 34163, A	332	27	62.8	365	2	US-09-328-352-7147	Sequence 7147, Ap
260	27	62.8	171	2	US-09-270-767-49380	Sequence 49380, A	333	27	62.8	367	2	US-09-491-577-62	Sequence 62, Appl
261	27	62.8	187	2	US-09-270-767-42688	Sequence 42688, A	334	27	62.8	376	2	US-09-134-001C-4029	Sequence 4029, Ap
262	27	62.8	188	2	US-09-270-767-3787	Sequence 3787, A	335	27	62.8	376	2	US-09-270-767-42162	Sequence 42162, A
263	27	62.8	188	2	US-09-270-767-53004	Sequence 53004, A	336	27	62.8	383	2	US-09-710-279-1564	Sequence 29, Appl
264	27	62.8	204	2	US-10-101-464A-790	Sequence 790, App	337	27	62.8	385	1	US-08-694-915-2	Sequence 1564, Ap
265	27	62.8	206	2	US-09-270-767-41333	Sequence 41233, A	338	27	62.8	388	2	US-09-134-001C-5202	Sequence 2, Appl
266	27	62.8	206	2	US-09-270-767-56449	Sequence 56449, A	339	27	62.8	396	2	US-09-134-000C-1853	Sequence 3853, Ap
267	27	62.8	214	2	US-09-489-039A-9482	Sequence 9482, Ap	340	27	62.8	396	2	US-09-949-016-8736	Sequence 8736, Ap
268	27	62.8	220	1	US-08-663-552-10	Sequence 10, Appl	341	27	62.8	399	2	US-09-248-796A-18347	Sequence 18347, A
269	27	62.8	220	4	PCT-US93-05704-10	Sequence 2359, Ap	342	27	62.8	401	2	US-09-107-433-4502	Sequence 4902, Ap
270	27	62.8	223	2	US-09-540-236-2359	Sequence 35, Appl	343	27	62.8	403	2	US-09-328-352-7791	Sequence 7791, Ap
271	27	62.8	229	2	US-09-651-656-35	Sequence 35, Appl	344	27	62.8	403	2	US-09-489-039A-13464	Sequence 13464, A
272	27	62.8	229	2	US-09-650-855-35	Sequence 4, Appl	345	27	62.8	404	2	US-09-489-039A-12039	Sequence 12039, A
273	27	62.8	235	1	US-08-928-443-4	Sequence 4, Appl	346	27	62.8	414	1	US-09-107-433-3915	Sequence 3915, Ap
274	27	62.8	235	2	US-09-129-055-4	Sequence 6375, Ap	347	27	62.8	416	2	US-08-694-915-4	Sequence 4, Appl
275	27	62.8	235	2	US-09-949-016-6375	Sequence 41560, A	348	27	62.8	416	2	US-09-270-767-61404	Sequence 61404, A
276	27	62.8	236	2	US-09-270-767-41560	Sequence 3467, Ap	349	27	62.8	417	2	US-09-248-796A-24390	Sequence 24390, A
277	27	62.8	238	2	US-09-134-000C-3467	Sequence 12, Appl	350	27	62.8	423	2	US-09-850-348A-2	Sequence 2, Appl
278	27	62.8	239	1	US-08-114-555A-12	Sequence 17, Appl	351	27	62.8	430	2	US-09-583-110-4125	Sequence 2981, Ap
279	27	62.8	239	2	US-08-559-397A-17	Sequence 11764, A	352	27	62.8	436	2	US-09-134-001C-2981	Sequence 4122, Ap
280	27	62.8	240	2	US-09-489-039A-11764	Sequence 12374, A	353	27	62.8	437	2	US-09-248-796A-18973	Sequence 18973, A
281	27	62.8	247	2	US-09-502-540-12374	Sequence 10493, A	354	27	62.8	437	2	US-09-107-433-5142	Sequence 5142, Ap
282	27	62.8	250	2	US-09-949-016-10493	Sequence 10493, A	355	27	62.8	446	2	US-09-543-681A-1270	Sequence 1270, Ap
283	27	62.8	253	2	US-08-929-329-9	Sequence 9, Appl	356	27	62.8	446	2	US-09-489-039A-14283	Sequence 14283, A
284	27	62.8	258	2	US-09-747-802-1	Sequence 1, Appl	357	27	62.8	447	2	US-09-248-796A-14846	Sequence 14846, A
285	27	62.8	271	2	US-09-085-505-12	Sequence 12, Appl	358	27	62.8	465	1	US-08-894-84-9	Sequence 9, Appl
286	27	62.8	279	2	US-09-900-575-23	Sequence 23, Appl	359	27	62.8	465	1	US-08-894-84-9	Sequence 9, Appl
287	27	62.8	279	2	US-09-900-575-24	Sequence 24, Appl	360	27	62.8	465	2	US-09-139-675-9	Sequence 9, Appl
288	27	62.8	279	2	US-09-900-575-25	Sequence 25, Appl	361	27	62.8	465	2	US-09-502-018-9	Sequence 9, Appl
289	27	62.8	279	2	US-09-900-575-26	Sequence 26, Appl	362	27	62.8	467	2	US-09-543-681A-4262	Sequence 4262, Ap
290	27	62.8	279	2	US-09-900-575-27	Sequence 27, Appl	363	27	62.8	476	2	US-09-134-001C-4117	Sequence 4117, Ap
291	27	62.8	279	2	US-09-900-575-28	Sequence 28, Appl	364	27	62.8	488	2	US-09-634-238-272	Sequence 272, App
292	27	62.8	279	2	US-09-900-575-29	Sequence 29, Appl	365	27	62.8	516	2	US-09-248-796A-17166	Sequence 17166, A
293	27	62.8	279	2	US-09-900-575-30	Sequence 30, Appl	366	27	62.8	521	1	US-08-063-552-2	Sequence 2, Appl
294	27	62.8	279	2	US-09-900-575-31	Sequence 31, Appl	367	27	62.8	521	4	PCT-US93-05704-2	Sequence 19528, A
295	27	62.8	279	2	US-09-900-575-32	Sequence 32, Appl	368	27	62.8	541	2	US-09-248-796A-19528	Sequence 2, Appl
296	27	62.8	279	2	US-09-900-575-33	Sequence 33, Appl	369	27	62.8	548	2	US-09-508-418A-2	Sequence 20627, A
297	27	62.8	279	2	US-09-900-575-34	Sequence 34, Appl	370	27	62.8	561	2	US-09-252-991A-20627	Sequence 4759, Ap
298	27	62.8	279	2	US-09-900-575-35	Sequence 35, Appl	371	27	62.8	561	2	US-09-134-000C-4159	Sequence 4159, A
299	27	62.8	279	2	US-09-900-575-36	Sequence 36, Appl	372	27	62.8	583	2	US-09-270-767-45873	Sequence 45873, A
300	27	62.8	279	2	US-09-900-575-37	Sequence 37, Appl	373	27	62.8	594	2	US-09-328-352-5490	Sequence 5490, Ap
301	27	62.8	279	2	US-09-900-575-38	Sequence 38, Appl	374	27	62.8	601	2	US-09-134-000C-5783	Sequence 5783, Ap
302	27	62.8	279	2	US-09-900-575-39	Sequence 39, Appl	375	27	62.8	602	2	US-09-489-039A-7207	Sequence 7207, Ap
303	27	62.8	279	2	US-09-900-575-40	Sequence 40, Appl	376	27	62.8	603	2	US-09-487-558B-144	Sequence 6935, Ap
304	27	62.8	279	2	US-09-900-575-41	Sequence 41, Appl	377	27	62.8	613	2	US-09-107-532A-6935	Sequence 88, Appl
305	27	62.8	279	2	US-09-900-575-42	Sequence 42, Appl	378	27	62.8	627	2	US-09-724-623-88	Sequence 10, Appl
306	27	62.8	279	2	US-09-900-575-43	Sequence 43, Appl	379	27	62.8	633	2	US-09-041-991A-8	Sequence 8, Appl
307	27	62.8	279	2	US-09-900-575-44	Sequence 44, Appl	380	27	62.8	633	2	US-09-608-533A-8	Sequence 10, Appl
308	27	62.8	279	2	US-09-900-575-45	Sequence 45, Appl	381	27	62.8	633	2	US-09-608-533A-10	Sequence 10, Appl
309	27	62.8	280	2	US-09-900-575-46	Sequence 46, Appl	382	27	62.8	633	2	US-09-608-533A-12	Sequence 12, Appl
310	27	62.8	280	2	US-09-900-575-47	Sequence 47, Appl	383	27	62.8	633	2	US-09-477-962-102	Sequence 13409, A
311	27	62.8	280	2	US-09-900-575-48	Sequence 48, Appl	384	27	62.8	645	2	US-09-489-039A-13409	Sequence 13409, A
312	27	62.8	288	2	US-09-949-016-8801	Sequence 8801, Ap	385	27	62.8	728	2	US-09-489-039A-13409	Sequence 13409, A
313	27	62.8	292	2	US-09-949-016-7084	Sequence 7084, Ap	386	27	62.8	729	1	US-07-618-946A-22	Sequence 23, Appl
314	27	62.8	300	2	US-09-298-494-2	Sequence 2, Appl	387	27	62.8	800	1	US-07-618-946A-23	Sequence 23, Appl
315	27	62.8	300	2	US-09-492-709A-367	Sequence 367, App	388	27	62.8	814	1	US-07-618-946A-23	Sequence 23, Appl
316	27	62.8	305	2	US-09-492-709A-367	Sequence 367, App	389	27	62.8	822	2	US-09-270-767-46693	Sequence 46693, A
317	27	62.8	309	2	US-09-979-603-52	Sequence 22, Appl	390	27	62.8	915	2	US-09-583-110-3100	Sequence 3100, Ap
318	27	62.8	319	2	US-09-008-687A-6	Sequence 6, Appl	391	27	62.8	922	2	US-09-198-452A-15	Sequence 15, Appl
319	27	62.8	346	2	US-09-585-876-2	Sequence 2, Appl	392	27	62.8	932	2	US-09-438-185A-6	Sequence 6, Appl

393	27	62.8	935	2	US-09-538-092-682	Sequence 682, App	466	26	60.5	116	2	US-09-270-767-49830	Sequence 49830, A
394	27	62.8	1045	2	US-09-338-185A-485	Sequence 485, App	467	26	60.5	118	2	US-09-581-894A-1	Sequence 1, App1
395	27	62.8	1120	2	US-09-830-230A-10	Sequence 10, App	468	26	60.5	118	2	US-09-581-894A-10	Sequence 10, App1
396	27	62.8	1146	2	US-09-830-230A-9	Sequence 9, App1	469	26	60.5	127	2	US-08-858-207A-479	Sequence 479, App
397	27	62.8	1332	2	US-09-270-767-59785	Sequence 59785, A	470	26	60.5	129	2	US-09-107-532A-4871	Sequence 4871, App
398	27	62.8	1362	2	US-09-448-796A-20060	Sequence 20060, A	471	26	60.5	135	2	US-09-270-767-34061	Sequence 34061, A
399	27	62.8	1381	2	US-09-662-2548-20	Sequence 20, App1	472	26	60.5	135	2	US-09-270-767-49278	Sequence 49278, A
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401	27	62.8	1666	2	US-09-949-016-8332	Sequence 8332, App	474	26	60.5	140	2	US-09-270-767-48198	Sequence 48198, A
402	27	62.8	1715	2	US-09-696-115B-17	Sequence 17, App1	475	26	60.5	141	2	US-09-438-185A-228	Sequence 228, App
403	27	62.8	1735	2	US-09-902-540-14547	Sequence 14547, A	476	26	60.5	143	2	US-09-270-767-453035	Sequence 453035, A
404	27	62.8	1912	2	US-09-495-714C-2	Sequence 2, App1	477	26	60.5	144	2	US-09-903-456-43	Sequence 43, App1
405	27	62.8	1968	1	US-07-745-206A-7	Sequence 7, App1	478	26	60.5	144	2	US-09-903-456-43	Sequence 42, App1
406	27	62.8	1968	1	US-08-455-543A-45	Sequence 45, App1	479	26	60.5	144	6	US-09-624-670-40	Patent No. 5208218-1
407	27	62.8	1968	1	US-08-223-305C-45	Sequence 45, App1	480	26	60.5	145	2	US-09-903-456-41	Sequence 41, App1
408	27	62.8	1968	1	US-08-311-363-7	Sequence 7, App1	481	26	60.5	145	2	US-09-624-670-40	Sequence 40, App1
409	27	62.8	1977	2	US-09-495-714C-4	Sequence 4, App1	482	26	60.5	146	2	US-09-107-532A-5046	Sequence 5046, App
410	27	62.8	1985	2	US-09-495-714C-6	Sequence 6, App1	483	26	60.5	148	2	US-09-903-456-51	Sequence 51, App1
411	27	62.8	2161	1	US-07-745-206A-2	Sequence 2, App1	484	26	60.5	148	2	US-09-624-670-50	Sequence 50, App1
412	27	62.8	2161	1	US-08-455-543A-49	Sequence 49, App1	485	26	60.5	151	2	US-09-328-352-5879	Sequence 5879, App
413	27	62.8	2161	1	US-08-455-543A-51	Sequence 51, App1	486	26	60.5	153	2	US-09-270-767-42027	Sequence 42027, A
414	27	62.8	2161	1	US-08-223-305C-49	Sequence 49, App1	487	26	60.5	156	2	US-09-270-767-35049	Sequence 35049, A
415	27	62.8	2161	1	US-08-223-305C-51	Sequence 51, App1	488	26	60.5	156	2	US-09-270-767-37381	Sequence 37381, A
416	27	62.8	2161	1	US-09-311-363-2	Sequence 2, App1	489	26	60.5	156	2	US-09-270-767-50266	Sequence 50266, A
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419	27	62.8	2710	1	US-08-480-604A-6	Sequence 6, App1	492	26	60.5	163	2	US-10-104-047A-637	Sequence 637, App
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422	27	62.8	2710	2	US-08-957-310-6	Sequence 6, App1	495	26	60.5	183	2	US-09-621-976-4025	Sequence 4025, App
423	27	62.8	2710	2	US-10-011-366-6	Sequence 6, App1	496	26	60.5	186	2	US-09-489-039A-12969	Sequence 12969, A
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425	27	62.8	3038	1	US-08-450-332-2	Sequence 2, App1	498	26	60.5	194	2	US-09-218-363-17	Sequence 17, App1
426	27	62.8	3038	1	US-08-637-640-2	Sequence 2, App1	499	26	60.5	194	2	US-09-830-230A-406	Sequence 406, App
427	27	62.8	3038	2	US-09-004-406C-2	Sequence 2, App1	500	26	60.5	194	2	US-09-772-105-17	Sequence 17, App1
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429	27	62.8	3829	2	US-09-693-205A-16	Sequence 16, App1	502	26	60.5	200	2	US-09-489-039A-12634	Sequence 12634, A
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433	26	61.6	399	2	US-09-134-000C-5712	Sequence 5712, App	506	26	60.5	214	2	US-08-861-774E-32	Sequence 32, App1
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435	26	60.5	16	2	US-08-445-585-11	Sequence 11, App1	508	26	60.5	219	2	US-09-248-796A-14316	Sequence 14316, A
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444	26	60.5	63	2	US-10-054-988-89	Sequence 89, App1	517	26	60.5	233	2	US-09-107-532A-4966	Sequence 4966, App
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453	26	60.5	71	2	US-09-248-796A-21660	Sequence 21660, A	526	26	60.5	257	2	US-10-006-768A-225	Sequence 225, App
454	26	60.5	75	2	US-09-134-001C-5076	Sequence 5076, App	527	26	60.5	257	2	US-10-015-671A-225	Sequence 225, App
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457	26	60.5	82	2	US-10-054-988-151	Sequence 151, App	530	26	60.5	257	2	US-10-012-064A-225	Sequence 225, App
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463	26	60.5	110	2	US-09-732-210-1205	Sequence 1205, App	536	26	60.5	267	2	US-09-772-105-8	Sequence 8, App1
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555	26	60.5	305	2	US-09-540-236-3603	Sequence 3603, Ap	628	26	60.5	473	2	US-09-286-691-15	Sequence 15, Appl
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564	26	60.5	330	2	US-09-489-039A-7224	Sequence 7224, Ap	637	26	60.5	492	1	US-08-355-844-3	Sequence 3, Appl
565	26	60.5	330	2	US-09-492-709A-377	Sequence 377, Ap	638	26	60.5	492	2	US-09-321-968-9	Sequence 9, Appl
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575	26	60.5	356	2	US-09-489-039A-8702	Sequence 8702, Ap	648	26	60.5	519	2	US-09-543-681A-5507	Sequence 5507, Ap
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579	26	60.5	379	2	US-09-568-189A-64	Sequence 64, Appl	652	26	60.5	530	2	US-09-949-016-6085	Sequence 6085, Ap
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586	26	60.5	388	2	US-09-596-196-4	Sequence 4, Appl	659	26	60.5	541	4	PCR-US95-07085-2	Sequence 2, Appl
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588	26	60.5	389	2	US-09-107-433-4749	Sequence 4749, Ap	661	26	60.5	547	2	US-09-421-299-1	Sequence 1, Appl
589	26	60.5	394	2	US-09-674-866A-2	Sequence 2, Appl	662	26	60.5	548	2	US-09-205-258-264	Sequence 264, App
590	26	60.5	394	2	US-09-712-363-205	Sequence 205, App	663	26	60.5	548	2	US-10-004-860-264	Sequence 264, App
591	26	60.5	396	2	US-08-985-908-24	Sequence 24, Appl	664	26	60.5	550	2	US-09-631-603-20	Sequence 20, Appl
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593	26	60.5	399	2	US-09-769-787-47	Sequence 47, Appl	666	26	60.5	554	2	US-09-949-016-8532	Sequence 8532, Ap
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596	26	60.5	404	2	US-09-107-532A-6741	Sequence 6741, Ap	669	26	60.5	554	2	US-09-949-016-9421	Sequence 9421, Ap
597	26	60.5	405	2	US-09-537-357-54	Sequence 54, Appl	670	26	60.5	554	2	US-09-949-016-1161	Sequence 1161, A
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604	26	60.5	423	2	US-09-712-338-9	Sequence 9, Appl	677	26	60.5	614	2	US-10-023-649A-3	Sequence 3, Appl
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687	26	60.5	677	2	US-09-248-796A-16017	Sequence 16017, A	760	25	58.1	45	4	PCT-US93-08528-164	Sequence 164, App
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693	26	60.5	742	2	US-09-248-796A-19053	Sequence 19053, A	766	25	58.1	49	4	PCT-US93-08528-201	Sequence 201, App
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695	26	60.5	790	1	US-08-286-846A-9	Sequence 9, App11	768	25	58.1	53	2	US-09-270-767-74135	Sequence 34135, A
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983 25 58.1 288 2 US-09-134-000C-5520 Sequence 5520, Ap
984 25 58.1 288 2 US-09-809-665A-167 Sequence 167, App
985 25 58.1 289 2 US-09-809-665A-4 Sequence 4, Appli
986 25 58.1 290 2 US-09-107-532A-3841 Sequence 3841, Ap
987 25 58.1 290 2 US-09-489-039A-11474 Sequence 11474, A
988 25 58.1 294 2 US-09-134-000C-4264 Sequence 4264, Ap
989 25 58.1 297 2 US-09-603-208A-158 Sequence 158, App
990 25 58.1 299 1 US-08-467-155A-8 Sequence 8, Appli
991 25 58.1 299 1 US-08-628-198-8 Sequence 8, Appli
992 25 58.1 299 2 US-09-201-038-8 Sequence 8, Appli
993 25 58.1 299 2 US-09-393-634-5 Sequence 5, Appli
994 25 58.1 299 4 PCT-US96-07343-8 Sequence 8, Appli
995 25 58.1 303 2 US-09-489-039A-8915 Sequence 8915, Ap
996 25 58.1 304 1 US-08-424-641B-4 Sequence 4, Appli
997 25 58.1 304 1 US-08-820-980-4 Sequence 4, Appli
998 25 58.1 304 1 US-08-826-439-4 Sequence 4, Appli
999 25 58.1 304 2 US-08-913-159-8 Sequence 8, Appli
1000 25 58.1 305 2 US-10-376-397B-8 Sequence 8, Appli

ALIGNMENTS

RESULT 1
US-08-934-915-66
; Sequence 66, Application US/08934915
; Patent No. 5932412
; GENERAL INFORMATION:
; APPLICANT: DILLNER, JOAKIM
; APPLICANT: DILLNER, LENA
; APPLICANT: CHENG, HWEI-MING
; TITLE OF INVENTION: SYNTHETIC PEPTIDES OF HUMAN
; TITLE OF INVENTION: PAPILLOMAVIRUS 1, 5, 6, 8
; TITLE OF INVENTION: 11, 16, 18, 31, 33 AND 56,
; TITLE OF INVENTION: USEFUL IN IMMUNOSSAY FOR
; TITLE OF INVENTION: DIAGNOSTIC PURPOSES
; NUMBER OF SEQUENCES: 193
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MASON & ASSOCIATES, P.A.
; STREET: 17757 U.S. HWY. 19 NORTH, SUITE 500
; CITY: CLEARWATER
; STATE: FLORIDA
; COUNTRY: U.S.A.
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: Windows 3.0
; SOFTWARE: Microsoft Word 6.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/934,915
; FILING DATE: 22-SEP-1997
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 07/949,836
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: LOUISE A. Fouch
; REGISTRATION NUMBER: 37,133
; REFERENCE/DOCKET NUMBER: 1946.6
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 813-538-3800
; TELEFAX: 813-538-3820
; TELEX:
; INFORMATION FOR SEQ ID NO: 66:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 29 amino acids
; TYPE: amino acid

TOPOLOGY: linear
; MOLECULE TYPE: peptide
; US-08-934-915-66

Query Match 100.0%; Score 43; DB 1; Length 29;
Best Local Similarity 100.0%; Pred. No. 0.1;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 LFLNTLSFV 9
Db 13 LFLNTLSFV 21

RESULT 2

US-09-485-885-16
; Sequence 16, Application US/09485885
; Patent No. 6342224
; GENERAL INFORMATION:
; APPLICANT: Bruck, Claudine
; APPLICANT: Cabezon Silva, Teresa
; APPLICANT: Delisse, Anne-Marie Eva Fernande
; APPLICANT: Gerard, Catherine Marie Ghislaine
; APPLICANT: Lombardo-Benchelkh, Angela
; TITLE OF INVENTION: Vaccine
; FILE REFERENCE: B45107
; CURRENT APPLICATION NUMBER: US/09/485,885
; CURRENT FILING DATE: 2000-02-18
; PRIOR APPLICATION NUMBER: PCT/EP98/05285
; PRIOR FILING DATE: 1998-08-17
; PRIOR APPLICATION NUMBER: GB 9717953.5
; PRIOR FILING DATE: 1997-08-22
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 16
; LENGTH: 227
; TYPE: PRT
; ORGANISM: Homo sapien
; US-09-485-885-16

Query Match 100.0%; Score 43; DB 2; Length 227;
Best Local Similarity 100.0%; Pred. No. 0.87;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 LFLNTLSFV 9
Db 202 LFLNTLSFV 210

RESULT 3
US-09-485-885-19
; Sequence 19, Application US/09485885
; Patent No. 6342224
; GENERAL INFORMATION:
; APPLICANT: Bruck, Claudine
; APPLICANT: Cabezon Silva, Teresa
; APPLICANT: Delisse, Anne-Marie Eva Fernande
; APPLICANT: Gerard, Catherine Marie Ghislaine
; APPLICANT: Lombardo-Benchelkh, Angela
; TITLE OF INVENTION: Vaccine
; FILE REFERENCE: B45107
; CURRENT APPLICATION NUMBER: US/09/485,885
; CURRENT FILING DATE: 2000-02-18
; PRIOR APPLICATION NUMBER: PCT/EP98/05285
; PRIOR FILING DATE: 1998-08-17
; PRIOR APPLICATION NUMBER: GB 9717953.5
; PRIOR FILING DATE: 1997-08-22
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 19
; LENGTH: 227
; TYPE: PRT
; ORGANISM: Homo sapien
; US-09-485-885-19

Query Match 100.0%; Score 43; DB 2; Length 227;
 Best Local Similarity 100.0%; Pred. No. 0.87;
 Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 LFLNTLSFV 9
 |||||
 Db 202 LFLNTLSFV 210

RESULT 4

US-08-117-083-13
 ; Sequence 13, Application US/08117083
 ; Patent No. 5719054
 ; GENERAL INFORMATION:
 ; APPLICANT: Bouranelli, Michael E.
 ; APPLICANT: Ingile, Stephen C.
 ; APPLICANT: Munro, Alan J.
 ; TITLE OF INVENTION: Recombinant Virus Vectors Encoding Human
 ; TITLE OF INVENTION: Papilloma Virus Proteins
 ; NUMBER OF SEQUENCES: 70
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: Walter H. Dreger
 ; STREET: 4 Embarcadero Center, Suite 3400
 ; CITY: San Francisco
 ; STATE: CA
 ; COUNTRY: USA
 ; ZIP: 94111
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: Patentin Release #1.0, Version #1.25
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/117,083
 ; FILING DATE: 10-SEP-1993
 ; CLASSIFICATION: 435
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: Dreger, Walter H.
 ; REGISTRATION NUMBER: 24,190
 ; REFERENCE/DOCKET NUMBER: A-56783
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: 415-781-1989
 ; TELEFAX: 415-398-3249
 ; TELEX: 910 277299
 ; INFORMATION FOR SEQ ID NO: 13:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 272 amino acids
 ; TYPE: amino acid
 ; STRANDEDNESS: single
 ; TOPOLOGY: linear
 ; MOLECULE TYPE: protein
 ; FEATURE:
 ; NAME/KEY: Protein
 ; LOCATION: 1..272
 ; OTHER INFORMATION: /note="Xaa refers to stop codon in
 ; OTHER INFORMATION: the open reading frame."
 ; US-08-117-083-13

Query Match 100.0%; Score 43; DB 1; Length 272;
 Best Local Similarity 100.0%; Pred. No. 1;
 Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 LFLNTLSFV 9
 |||||
 Db 252 LFLNTLSFV 260

RESULT 5
 US-09-485-885-23
 ; Sequence 23, Application US/09485885
 ; Patent No. 6342224
 ; GENERAL INFORMATION:

APPLICANT: Bruck, Claudine
 APPLICANT: Cabezon Silva, Teresa
 APPLICANT: Delisse, Anne-Marie Eva Fernande
 APPLICANT: Gerard, Catherine Marie Ghislaine
 APPLICANT: Lombardo-Bencheikh, Angela
 TITLE OF INVENTION: Vaccine
 FILE REFERENCE: B45107
 CURRENT APPLICATION NUMBER: US/09/485,885
 CURRENT FILING DATE: 2000-02-18
 PRIOR APPLICATION NUMBER: PCT/EP98/05285
 PRIOR FILING DATE: 1998-08-17
 PRIOR APPLICATION NUMBER: GB 9717953.5
 PRIOR FILING DATE: 1997-08-22
 NUMBER OF SEQ ID NOS: 23
 SOFTWARE: FastSeq for Windows Version 3.0
 SEQ ID NO 23
 LENGTH: 383
 TYPE: PRT
 ORGANISM: Homo sapien
 US-09-485-885-23

Query Match 100.0%; Score 43; DB 2; Length 383;
 Best Local Similarity 100.0%; Pred. No. 1.5;
 Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 LFLNTLSFV 9
 |||||
 Db 358 LFLNTLSFV 366

RESULT 6
 US-09-902-540-16422
 ; Sequence 16422, Application US/09902540
 ; Patent No. 6833447
 ; GENERAL INFORMATION:
 ; APPLICANT: Goldman, Barry S.
 ; APPLICANT: Hinkle, Steven C.
 ; APPLICANT: Slater, Steven C.
 ; APPLICANT: Wiegand, Roger C.
 ; TITLE OF INVENTION: Myxococcus xanthus Genome Sequences and Uses Thereof
 ; FILE REFERENCE: 38-10(15849)B
 ; CURRENT APPLICATION NUMBER: US/09/902,540
 ; CURRENT FILING DATE: 2001-07-10
 ; PRIOR APPLICATION NUMBER: 60/217,883
 ; PRIOR FILING DATE: 2000-07-10
 ; NUMBER OF SEQ ID NOS: 16825
 ; SEQ ID NO 16422
 ; LENGTH: 263
 ; TYPE: PRT
 ; ORGANISM: Myxococcus xanthus
 ; US-09-902-540-16422

Query Match 81.4%; Score 35; DB 2; Length 263;
 Best Local Similarity 77.8%; Pred. No. 35;
 Matches 7; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 LFLNTLSFV 9
 |||||
 Db 32 LFLNTLSFV 40

RESULT 7
 US-09-919-497-71
 ; Sequence 71, Application US/09919497
 ; Patent No. 6773883
 ; GENERAL INFORMATION:
 ; APPLICANT: Multer, George L.
 ; TITLE OF INVENTION: PROGNOSTIC CLASSIFICATION OF ENDOMETRIAL CANCER
 ; FILE REFERENCE: B0801/7225
 ; CURRENT APPLICATION NUMBER: US/09/919,497
 ; CURRENT FILING DATE: 2001-07-31
 ; PRIOR APPLICATION NUMBER: US 60/221,735
 ; PRIOR FILING DATE: 2000-07-31

NUMBER OF SEQ ID NOS: 100
SOFTWARE: Patentin version 3.0
SEQ ID NO 71
LENGTH: 292
TYPE: PRT
ORGANISM: Homo sapiens
US-09-919-497-71

Query Match
Best Local Similarity 81.4%; Score 35; DB 2; Length 292;
Best Local Similarity 77.8%; Pred. No. 39;
Matches 7; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 LEPLTISFV 9
Db 280 LEPLTISFV 288

RESULT 8
US-09-949-016-6771
Sequence 6771, Application US/09949016
Patent No. 6812339
GENERAL INFORMATION:
APPLICANT: VENTER, J. Craig et al.
TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
FILE REFERENCE: CLO01307
CURRENT APPLICATION NUMBER: US/09/949,016
CURRENT FILING DATE: 2000-04-14
PRIOR APPLICATION NUMBER: 60/241,755
PRIOR FILING DATE: 2000-10-20
PRIOR APPLICATION NUMBER: 60/237,768
PRIOR FILING DATE: 2000-10-03
PRIOR APPLICATION NUMBER: 60/231,498
PRIOR FILING DATE: 2000-09-08
NUMBER OF SEQ ID NOS: 207012
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 6771
LENGTH: 292
TYPE: PRT
ORGANISM: Human
US-09-949-016-6771

Query Match
Best Local Similarity 81.4%; Score 35; DB 2; Length 292;
Best Local Similarity 77.8%; Pred. No. 39;
Matches 7; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 LEPLTISFV 9
Db 280 LEPLTISFV 288

RESULT 9
US-09-949-016-7132
Sequence 7132, Application US/09949016
Patent No. 6812339
GENERAL INFORMATION:
APPLICANT: VENTER, J. Craig et al.
TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
FILE REFERENCE: CLO01307
CURRENT APPLICATION NUMBER: US/09/949,016
CURRENT FILING DATE: 2000-04-14
PRIOR APPLICATION NUMBER: 60/241,755
PRIOR FILING DATE: 2000-10-20
PRIOR APPLICATION NUMBER: 60/237,768
PRIOR FILING DATE: 2000-10-03
PRIOR APPLICATION NUMBER: 60/231,498
PRIOR FILING DATE: 2000-09-08
NUMBER OF SEQ ID NOS: 207012
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 7132
LENGTH: 324
TYPE: PRT

ORGANISM: Human
US-09-949-016-7132

Query Match
Best Local Similarity 81.4%; Score 35; DB 2; Length 324;
Best Local Similarity 77.8%; Pred. No. 44;
Matches 7; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 LEPLTISFV 9
Db 312 LEPLTISFV 320

RESULT 10
US-09-543-681A-4894
Sequence 4894, Application US/09543681A
Patent No. 6605709
GENERAL INFORMATION:
APPLICANT: GARY BRETON
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PROTEUS MIRABILIS
TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS
FILE REFERENCE: 2709,1002-001
CURRENT APPLICATION NUMBER: US/09/543,681A
CURRENT FILING DATE: 2000-04-05
PRIOR APPLICATION NUMBER: US 60/128,706
PRIOR FILING DATE: 1999-04-09
NUMBER OF SEQ ID NOS: 8344
SEQ ID NO 4894
LENGTH: 224
TYPE: PRT
ORGANISM: Proteus mirabilis
US-09-543-681A-4894

Query Match
Best Local Similarity 76.7%; Score 33; DB 2; Length 224;
Best Local Similarity 66.7%; Pred. No. 73;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 1 LEPLTISFV 9
Db 101 LEPLTISFV 109

RESULT 11
US-10-151-832-6
Sequence 6, Application US/10151832
Patent No. 6831206
GENERAL INFORMATION:
APPLICANT: Allen, Stephen M.
APPLICANT: Falco, Carl S.
APPLICANT: Tarczynski, Mitchell
TITLE OF INVENTION: Serine O-Acetyltransferase
FILE REFERENCE: BB1514
CURRENT APPLICATION NUMBER: US/10/151,832
CURRENT FILING DATE: 2002-05-21
PRIOR APPLICATION NUMBER: 60/292,411
PRIOR FILING DATE: 2001-05-21
NUMBER OF SEQ ID NOS: 9
SOFTWARE: Microsoft Office 97
SEQ ID NO 6
LENGTH: 289
TYPE: PRT
ORGANISM: Allium cepa
US-10-151-832-6

Query Match
Best Local Similarity 76.7%; Score 33; DB 2; Length 289;
Best Local Similarity 100.0%; Pred. No. 95;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 LEPLTIS 7
Db 80 LEPLTIS 86

RESULT 12

US-09-107-532A-6500
; Sequence 6500, Application US/09107532A
; Patent No. 6583275
; GENERAL INFORMATION:
; APPLICANT: Lynn A Doucette-Stamm and David Bush
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO
; ENTEROCOCCUS FAECIUM FOR DIAGNOSTICS AND THERAPEUTICS
; NUMBER OF SEQUENCES: 7310
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: GENOME THERAPEUTICS CORPORATION
; STREET: 100 Beaver Street
; CITY: Waltham
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02354
; COMPUTER READABLE FORM:
; MEDIUM TYPE: CD-ROM ISO9660
; COMPUTER: PC
; OPERATING SYSTEM: <Unknown>
; SOFTWARE: ASCII
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/107,532A
; FILING DATE: 30-Jun-1998
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 60/085,598
; FILING DATE: 14 May 1998
; APPLICATION NUMBER: 60/051571
; FILING DATE: July 2, 1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Ariniello, Pamela Deneke
; REGISTRATION NUMBER: 40,489
; REFERENCE/DOCKET NUMBER: GTC-012
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (781)893-5007
; TELEFAX: (781)893-8277
; INFORMATION FOR SEQ ID NO: 6500:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 378 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; HYPOTHETICAL: YES
; ORIGINAL SOURCE:
; ORGANISM: Enterococcus faecium
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (B) LOCATION 1...378
; SEQUENCE DESCRIPTION: SEQ ID NO: 6500:
US-09-107-532A-6500
Query Match 76.7%; Score 33; DB 2; Length 378;
Best Local Similarity 66.7%; Pred. No. 1.2e+02;
Matches 6; Conservative 3; Mismatches 0; Indels 0; Gaps 0;
QY 1 LFLNTLSFV 9
DB 275 LFLSTISFL 283

RESULT 13
; US-09-248-796A-27222
; Sequence 27222, Application US/09248796A
; Patent No. 6747137
; GENERAL INFORMATION:
; APPLICANT: Keith Weinstock et al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDA ALBICAN
; FILE REFERENCE: 107196.132
; CURRENT APPLICATION NUMBER: US/09/248,796A
; FILING DATE: 1999-02-12
; PRIOR APPLICATION NUMBER: US 60/074,725
; PRIOR FILING DATE: 1998-02-13
; PRIOR APPLICATION NUMBER: US 60/096,409

PRIOR FILING DATE: 1998-08-13
; NUMBER OF SEQ ID NOS: 28208
; SEQ ID NO: 27222
; LENGTH: 61
; TYPE: PRT
; ORGANISM: Candida albicans
US-09-248-796A-27222
Query Match 74.4%; Score 32; DB 2; Length 61;
Best Local Similarity 66.7%; Pred. No. 30;
Matches 6; Conservative 3; Mismatches 0; Indels 0; Gaps 0;
QY 1 LFLNTLSFV 9
DB 36 VFLSTISYV 44

RESULT 14
; US-09-107-532A-5511
; Sequence 5511, Application US/09107532A
; Patent No. 6583275
; GENERAL INFORMATION:
; APPLICANT: Lynn A Doucette-Stamm and David Bush
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO
; ENTEROCOCCUS FAECIUM FOR DIAGNOSTICS AND THERAPEUTICS
; NUMBER OF SEQUENCES: 7310
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: GENOME THERAPEUTICS CORPORATION
; STREET: 100 Beaver Street
; CITY: Waltham
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02354
; COMPUTER READABLE FORM:
; MEDIUM TYPE: CD-ROM ISO9660
; COMPUTER: PC
; OPERATING SYSTEM: <Unknown>
; SOFTWARE: ASCII
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/107,532A
; FILING DATE: 30-Jun-1998
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 60/085,598
; FILING DATE: 14 May 1998
; APPLICATION NUMBER: 60/051571
; FILING DATE: July 2, 1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Ariniello, Pamela Deneke
; REGISTRATION NUMBER: 40,489
; REFERENCE/DOCKET NUMBER: GTC-012
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (781)893-5007
; TELEFAX: (781)893-8277
; INFORMATION FOR SEQ ID NO: 5511:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 183 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; HYPOTHETICAL: YES
; ORIGINAL SOURCE:
; ORGANISM: Enterococcus faecium
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (B) LOCATION 1...183
; SEQUENCE DESCRIPTION: SEQ ID NO: 5511:
US-09-107-532A-5511
Query Match 74.4%; Score 32; DB 2; Length 183;
Best Local Similarity 44.4%; Pred. No. 92;
Matches 4; Conservative 5; Mismatches 0; Indels 0; Gaps 0;
QY 1 LFLNTLSFV 9

Db 11 IFMNTLAY1 19

RESULT 15

US-09-107-532A-4173
; Sequence 4173, Application US/09107532A
; Patent No. 6583275

GENERAL INFORMATION:

APPLICANT: Lynn A Doucette-Stamm and David Bush
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO
ENTEROCOCCUS FAECIUM FOR DIAGNOSTICS AND THERAPEUTICS

NUMBER OF SEQUENCES: 7310

CORRESPONDENCE ADDRESS:

ADDRESSEE: GENOME THERAPEUTICS CORPORATION
STREET: 100 Beaver Street
CITY: Waltham
STATE: Massachusetts

COUNTRY: USA
ZIP: 02154

COMPUTER READABLE FORM:

MEDIUM TYPE: CD-ROM ISO9660
OPERATING SYSTEM: <Unknown>
SOFTWARE: ASCII

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/107,532A
FILING DATE: 30-Jun-1998

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 60/085,598
FILING DATE: 14 May 1998
APPLICATION NUMBER: 60/051571
FILING DATE: July 2, 1997

ATTORNEY/AGENT INFORMATION:

NAME: Ariniello, Pamela Deneke
REGISTRATION NUMBER: 40,489
REFERENCE/DOCKET NUMBER: GTC-012
TELECOMMUNICATION INFORMATION:
TELEPHONE: (781)893-5007
TELEFAX: (781)893-8277

INFORMATION FOR SEQ ID NO: 4173:

SEQUENCE CHARACTERISTICS:
LENGTH: 441 amino acids
TYPE: amino acid

TOPOLOGY: linear
MOLECULE TYPE: protein
HYPOTHETICAL: YES
ORIGINAL SOURCE:

ORGANISM: Enterococcus faecium

FEATURE:
NAME/KEY: misc.feature
LOCATION: (B) LOCATION 1...441

SEQUENCE DESCRIPTION: SEQ ID NO: 4173:
US-09-107-532A-4173

Query Match 74.4%; Score 32; DB 2; Length 441;
Best Local Similarity 75.0%; Pred. No. 2.3e+02;
Matches 6; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 2 FLNTLSFV 9
Db 55 FLNTLSFV 62

RESULT 16

US-09-248-796A-26051
; Sequence 26051, Application US/09248796A
; Patent No. 6747137

GENERAL INFORMATION:

APPLICANT: Keith Weinstein et al
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDA ALBICANS
FILE REFERENCE: 107196.132

; CURRENT APPLICATION NUMBER: US/09/248,796A

; CURRENT FILING DATE: 1999-02-12

; PRIOR APPLICATION NUMBER: US 60/074,725

; PRIOR FILING DATE: 1998-02-13

; PRIOR APPLICATION NUMBER: US 60/096,409

; PRIOR FILING DATE: 1998-08-13

; NUMBER OF SEQ ID NOS: 28208

; SEQ ID NO 26051

; LENGTH: 477

; TYPE: PRT

; ORGANISM: Candida albicans

US-09-248-796A-26051

Query Match 74.4%; Score 32; DB 2; Length 477;
Best Local Similarity 62.5%; Pred. No. 2.5e+02;

Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 2 FLNTLSFV 9
Db 125 FLNTLSFV 132

RESULT 17

US-09-248-796A-22497
; Sequence 22497, Application US/09248796A
; Patent No. 6747137

GENERAL INFORMATION:

APPLICANT: Keith Weinstein et al
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDA ALBICANS
FILE REFERENCE: 107196.132

; CURRENT APPLICATION NUMBER: US/09/248,796A

; CURRENT FILING DATE: 1999-02-12

; PRIOR APPLICATION NUMBER: US 60/074,725

; PRIOR FILING DATE: 1998-02-13

; PRIOR APPLICATION NUMBER: US 60/096,409

; PRIOR FILING DATE: 1998-08-13

; NUMBER OF SEQ ID NOS: 28208

; SEQ ID NO 22497

; LENGTH: 66

; TYPE: PRT

; ORGANISM: Candida albicans

US-09-248-796A-22497

Query Match 72.1%; Score 31; DB 2; Length 66;
Best Local Similarity 87.5%; Pred. No. 50;

Matches 7; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 LFLNTLSF 8
Db 4 LFLNTLSF 11

RESULT 18

US-09-311-689B-42
; Sequence 42, Application US/09311689B
; Patent No. 6800726

GENERAL INFORMATION:

APPLICANT: Rao, Gururaj A.
TITLE OF INVENTION: Proteins with Enhanced Levels of
Essential Amino Acids

FILE REFERENCE: 057192

; CURRENT APPLICATION NUMBER: US/09/311,689B

; CURRENT FILING DATE: 1999-05-13

; PRIOR APPLICATION NUMBER: 08/740,682

; PRIOR FILING DATE: 1996-11-01

; PRIOR APPLICATION NUMBER: PCT/US97/20441

; PRIOR FILING DATE: 1997-10-31

; NUMBER OF SEQ ID NOS: 74

; SOFTWARE: FastSeq for Windows Version 3.0

; SEQ ID NO 42

; LENGTH: 66

TYPE: PRT
ORGANISM: Nicotiana tabacum
US-09-311-689B-42

Query Match 72.1%; Score 31; DB 2; Length 66;
Best Local Similarity 66.7%; Pred. No. 50;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Qy 1 LFLNTLSFV 9
Db 51 LFLNVLDFFV 59

RESULT 19
US-09-311-689B-43
Sequence 43, Application US/09311689B
Patent No. 6800726

GENERAL INFORMATION:
APPLICANT: Rao, Gururaj A.
APPLICANT: Roessler, Keith
TITLE OF INVENTION: Proteins With Enhanced Levels of
FILE REFERENCE: 0571R2
CURRENT APPLICATION NUMBER: US/09/311,689B
CURRENT FILING DATE: 1999-05-13
PRIOR APPLICATION NUMBER: 08/740,682
PRIOR FILING DATE: 1996-11-01
PRIOR APPLICATION NUMBER: PCT/US97/20441
PRIOR FILING DATE: 1997-10-31
NUMBER OF SEQ ID NOS: 74
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 43
LENGTH: 66
TYPE: PRT
ORGANISM: Nicotiana glauca
US-09-311-689B-43

Query Match 72.1%; Score 31; DB 2; Length 66;
Best Local Similarity 66.7%; Pred. No. 50;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Qy 1 LFLNTLSFV 9
Db 51 LFLNVLDFFV 59

RESULT 20
US-09-270-767-46770
Sequence 46770, Application US/09270767
Patent No. 6703491
GENERAL INFORMATION:
APPLICANT: Homburger et al.
TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
FILE REFERENCE: File Reference: 7326-094
CURRENT APPLICATION NUMBER: US/09/270,767
CURRENT FILING DATE: 1999-03-17
NUMBER OF SEQ ID NOS: 62517
SOFTWARE: Patent Ver. 2.0
SEQ ID NO 46770
LENGTH: 92
TYPE: PRT
ORGANISM: Drosophila melanogaster
FEATURE:
OTHER INFORMATION: Xaa means any amino acid
US-09-270-767-46770

Query Match 72.1%; Score 31; DB 2; Length 92;
Best Local Similarity 75.0%; Pred. No. 71;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 2 FLNTLSFV 9
Db 12 YLNTYSFV 19

RESULT 21
US-09-270-767-45094
Sequence 45094, Application US/09270767
Patent No. 6703491

GENERAL INFORMATION:
APPLICANT: Homburger et al.
TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
FILE REFERENCE: File Reference: 7326-094
CURRENT APPLICATION NUMBER: US/09/270,767
CURRENT FILING DATE: 1999-03-17
NUMBER OF SEQ ID NOS: 62517
SOFTWARE: Patent Ver. 2.0
SEQ ID NO 45094
LENGTH: 127
TYPE: PRT
ORGANISM: Drosophila melanogaster
FEATURE:
OTHER INFORMATION: Xaa means any amino acid
US-09-270-767-45094

Query Match 72.1%; Score 31; DB 2; Length 127;
Best Local Similarity 75.0%; Pred. No. 99;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 LFLNTLSF 8
Db 61 LFLNLSMF 68

RESULT 22
US-10-135-807-2
Sequence 2, Application US/10135807
Patent No. 6951744
GENERAL INFORMATION:
APPLICANT: The Secretary of State for Defence in Her Britannic Majesty's
APPLICANT: Government of the United Kingdom of Great Britain and
APPLICANT: No. 6951744/Ireland
APPLICANT: Clark, Duncan Roy
APPLICANT: Vincent, Suzanne P
TITLE OF INVENTION: Amplification process
FILE REFERENCE: CG/P/133/MOD
CURRENT APPLICATION NUMBER: US/10/135,807
CURRENT FILING DATE: 2002-04-30
PRIOR APPLICATION NUMBER: GB 0110501.4
PRIOR FILING DATE: 2001-04-30
NUMBER OF SEQ ID NOS: 26
SOFTWARE: Patent Ver. 2.1
SEQ ID NO 2
LENGTH: 207
TYPE: PRT
ORGANISM: Aeropyrum pernix
US-10-135-807-2

Query Match 72.1%; Score 31; DB 2; Length 207;
Best Local Similarity 62.5%; Pred. No. 1,6e+02;
Matches 5; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

Qy 2 FLNTLSFV 9
Db 11 FVNSLSFI 18

RESULT 23
US-09-710-279-2980
Sequence 2980, Application US/09710279
Patent No. 6703492
GENERAL INFORMATION:
APPLICANT: KIMMERLY, WILLIAM JOHN
TITLE OF INVENTION: STAPHYLOCOCCUS EPIDERMIDIS NUCLEIC ACIDS AND PROTEINS
FILE REFERENCE: PUI480US
CURRENT APPLICATION NUMBER: US/09/710,279

CURRENT FILING DATE: 2000-11-09
PRIOR APPLICATION NUMBER: 60/164,258
PRIOR FILING DATE: 1999-11-09
NUMBER OF SEQ ID NOS: 4472
SOFTWARE: Patent In Ver. 2.1
SEQ ID NO 2980
LENGTH: 302
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: synthetic
US-09-710-279-2980

Query Match 72.1%; Score 31; DB 2; Length 302;
Best Local Similarity 75.0%; Pred. No. 2.4e+02;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 FLNLTSLF 8
Db 293 FLNLTSLF 300

RESULT 24
US-09-134-001C-3383
Sequence 3383, Application US/09134001C
Patent No. 6380370
GENERAL INFORMATION:
APPLICANT: Lynn Doucette-Stamm et al
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO STAPHYLOCOCCUS
FILE REFERENCE: GTC-007
CURRENT APPLICATION NUMBER: US/09/134,001C
CURRENT FILING DATE: 1998-08-13
PRIOR APPLICATION NUMBER: US 60/064,964
PRIOR FILING DATE: 1997-11-08
PRIOR APPLICATION NUMBER: US 60/055,779
PRIOR FILING DATE: 1997-08-14
NUMBER OF SEQ ID NOS: 5674
SEQ ID NO 3383
LENGTH: 350
TYPE: PRT
ORGANISM: Staphylococcus epidermidis
US-09-134-001C-3383

Query Match 72.1%; Score 31; DB 2; Length 350;
Best Local Similarity 75.0%; Pred. No. 2.8e+02;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 FLNLTSLF 8
Db 341 FLNLTSLF 348

RESULT 25
US-09-328-352-4261
Sequence 4261, Application US/09328352
Patent No. 6562958
GENERAL INFORMATION:
APPLICANT: Gary L. Breton et al.
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO ACINETOBACTER
FILE REFERENCE: GTC99-03PA
CURRENT APPLICATION NUMBER: US/09/328,352
CURRENT FILING DATE: 1999-06-04
NUMBER OF SEQ ID NOS: 8252
SEQ ID NO 4261
LENGTH: 434
TYPE: PRT
ORGANISM: Acinetobacter baumannii
US-09-328-352-4261

Query Match 72.1%; Score 31; DB 2; Length 434;

Best Local Similarity 77.8%; Pred. No. 3.5e+02;
Matches 7; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 FLNLTSLFV 9
Db 6 FLNLTSLFV 14

RESULT 26
US-09-252-991A-22396
Sequence 22396, Application US/09252991A
Patent No. 6551795
GENERAL INFORMATION:
APPLICANT: Marc J. Rubenfield et al.
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
FILE REFERENCE: 107196.136
CURRENT APPLICATION NUMBER: US/09/252,991A
CURRENT FILING DATE: 1999-02-18
PRIOR APPLICATION NUMBER: US 60/074,788
PRIOR FILING DATE: 1998-02-18
PRIOR APPLICATION NUMBER: US 60/094,190
PRIOR FILING DATE: 1998-07-27
NUMBER OF SEQ ID NOS: 33142
SEQ ID NO 22396
LENGTH: 660
TYPE: PRT
ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-22396

Query Match 72.1%; Score 31; DB 2; Length 660;
Best Local Similarity 85.7%; Pred. No. 5.4e+02;
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 2 FLNLTSLF 8
Db 142 FLNLTSLF 148

RESULT 27
US-09-543-681A-5976
Sequence 5976, Application US/09543681A
Patent No. 6605709
GENERAL INFORMATION:
APPLICANT: GARY BRETON
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PROTEUS MIRABILIS
FILE REFERENCE: 2709.1002-001
CURRENT APPLICATION NUMBER: US/09/543,681A
CURRENT FILING DATE: 2000-04-05
PRIOR APPLICATION NUMBER: US 60/128,706
PRIOR FILING DATE: 1999-04-09
NUMBER OF SEQ ID NOS: 8344
SEQ ID NO 5976
LENGTH: 672
TYPE: PRT
ORGANISM: Proteus mirabilis
US-09-543-681A-5976

Query Match 72.1%; Score 31; DB 2; Length 672;
Best Local Similarity 85.7%; Pred. No. 5.5e+02;
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 2 FLNLTSLF 8
Db 152 FLNLTSLF 158

RESULT 28
US-09-491-356C-23
Sequence 23, Application US/09491356C
Patent No. 6566061
GENERAL INFORMATION:

APPLICANT: Philibert, Robert A.
APPLICANT: Gims, Edward I.
APPLICANT: Delisi, Lynn
TITLE OF INVENTION: IDENTIFICATION OF POLYMORPHISMS IN THE PCTG4 REGION OF XQ13
FILE REFERENCE: 9465.6US11
CURRENT FILING DATE: 2000-01-26
CURRENT APPLICATION NUMBER: US/09/491,356C
PRIOR FILING DATE: 1999-04-29
PRIOR APPLICATION NUMBER: PCT/US99/09365
PRIOR FILING DATE: 1998-04-29
PRIOR APPLICATION NUMBER: 60/083,465
NUMBER OF SEQ ID NOS: 24
SOFTWARE: Patentin version 3.1
SEQ ID NO 23
LENGTH: 823
TYPE: PRT
ORGANISM: Homo sapiens
US-09-491-356C-23

Query Match 72.1%; Score 31; DB 2; Length 823;
Best Local Similarity 75.0%; Pred. No. 6.8e+02;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 LFLNTLSF 8
DB 699 LFLNVLAF 706

RESULT 29
US-09-491-356C-22
Sequence 22, Application US/09491356C
Patent No. 6566061

GENERAL INFORMATION:
APPLICANT: Philibert, Robert A.
APPLICANT: Gims, Edward I.
APPLICANT: Delisi, Lynn
TITLE OF INVENTION: IDENTIFICATION OF POLYMORPHISMS IN THE PCTG4 REGION OF XQ13
FILE REFERENCE: 9465.6US11
CURRENT APPLICATION NUMBER: US/09/491,356C
CURRENT FILING DATE: 2000-01-26
PRIOR FILING DATE: 1999-04-29
PRIOR APPLICATION NUMBER: PCT/US99/09365
PRIOR FILING DATE: 1998-04-29
PRIOR APPLICATION NUMBER: 60/083,465
NUMBER OF SEQ ID NOS: 24
SOFTWARE: Patentin version 3.1
SEQ ID NO 22
LENGTH: 848
TYPE: PRT
ORGANISM: Rattus norvegicus
US-09-491-356C-22

Query Match 72.1%; Score 31; DB 2; Length 848;
Best Local Similarity 75.0%; Pred. No. 7e+02;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 LFLNTLSF 8
DB 719 LFLNVLAF 726

RESULT 30
US-09-949-016-8386
Sequence 8386, Application US/09949016
Patent No. 6812339
GENERAL INFORMATION:
APPLICANT: VENTER, J. Craig et al.
TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
FILE REFERENCE: CU001307
CURRENT APPLICATION NUMBER: US/09/949,016
CURRENT FILING DATE: 2000-04-14
PRIOR APPLICATION NUMBER: 60/241,755

PRIOR FILING DATE: 2000-10-20
PRIOR APPLICATION NUMBER: 60/237,768
PRIOR FILING DATE: 2000-10-03
PRIOR APPLICATION NUMBER: 60/231,498
PRIOR FILING DATE: 2000-09-08
NUMBER OF SEQ ID NOS: 207012
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 8386
LENGTH: 933
TYPE: PRT
ORGANISM: Human
US-09-949-016-8386

Query Match 72.1%; Score 31; DB 2; Length 933;
Best Local Similarity 75.0%; Pred. No. 7.7e+02;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 LFLNTLSF 8
DB 804 LFLNVLAF 811

RESULT 31
US-09-949-016-8387
Sequence 8387, Application US/09949016
Patent No. 6812339
GENERAL INFORMATION:
APPLICANT: VENTER, J. Craig et al.
TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
FILE REFERENCE: CU001307
CURRENT APPLICATION NUMBER: US/09/949,016
CURRENT FILING DATE: 2000-04-14
PRIOR FILING DATE: 2000-10-20
PRIOR APPLICATION NUMBER: 60/241,755
PRIOR FILING DATE: 2000-10-20
PRIOR APPLICATION NUMBER: 60/237,768
PRIOR FILING DATE: 2000-10-03
PRIOR APPLICATION NUMBER: 60/231,498
PRIOR FILING DATE: 2000-09-08
NUMBER OF SEQ ID NOS: 207012
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 8387
LENGTH: 953
TYPE: PRT
ORGANISM: Human
US-09-949-016-8387

Query Match 72.1%; Score 31; DB 2; Length 953;
Best Local Similarity 75.0%; Pred. No. 7.9e+02;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 LFLNTLSF 8
DB 824 LFLNVLAF 831

RESULT 32
US-09-134-000C-5042
Sequence 5042, Application US/09134000C
Patent No. 6617156
GENERAL INFORMATION:
APPLICANT: Lynn Doucette-Stamm et al
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO
TITLE OF INVENTION: ENTEROCOCCUS FACCALIS FOR DIAGNOSTICS AND THERAPEUTICS
FILE REFERENCE: 032796-032
CURRENT APPLICATION NUMBER: US/09/134,000C
CURRENT FILING DATE: 1998-08-13
PRIOR APPLICATION NUMBER: US 60/055,778
PRIOR FILING DATE: 1997-08-15
NUMBER OF SEQ ID NOS: 6812
SOFTWARE: Patentin version 3.1
SEQ ID NO 5042
LENGTH: 145

TYPE: PRT
ORGANISM: Enterococcus faecalis
US-09-134-000C-5042

Query Match 69.8%; Score 30; DB 2; Length 145;
Best Local Similarity 77.8%; Pred. No. 1.8e+02;
Matches 7; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 LFLNTLSFV 9
| | | | |
Db 95 LFLFTLGFV 103

RESULT 33
US-09-270-767-35241
Sequence 35241, Application US/09270767
Patent No. 6703491
GENERAL INFORMATION:
APPLICANT: Homburger et al.
TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
FILE REFERENCE: File Reference: 7326-094
CURRENT APPLICATION NUMBER: US/09/270,767
CURRENT FILING DATE: 1999-03-17
NUMBER OF SEQ ID NOS: 62517
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 35241
LENGTH: 185
TYPE: PRT
ORGANISM: Drosophila melanogaster
FEATURE:
OTHER INFORMATION: Xaa means any amino acid
US-09-270-767-35241

Query Match 69.8%; Score 30; DB 2; Length 185;
Best Local Similarity 66.7%; Pred. No. 2.3e+02;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 LFLNTLSFV 9
| | | | |
Db 134 LFLSTISLV 142

RESULT 34
US-09-270-767-50458
Sequence 50458, Application US/09270767
Patent No. 6703491
GENERAL INFORMATION:
APPLICANT: Homburger et al.
TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
FILE REFERENCE: File Reference: 7326-094
CURRENT APPLICATION NUMBER: US/09/270,767
CURRENT FILING DATE: 1999-03-17
NUMBER OF SEQ ID NOS: 62517
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 50458
LENGTH: 185
TYPE: PRT
ORGANISM: Drosophila melanogaster
FEATURE:
OTHER INFORMATION: Xaa means any amino acid
US-09-270-767-50458

Query Match 69.8%; Score 30; DB 2; Length 185;
Best Local Similarity 66.7%; Pred. No. 2.3e+02;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 LFLNTLSFV 9
| | | | |
Db 134 LFLSTISLV 142

RESULT 35
US-09-270-767-45034

Sequence 45034, Application US/09270767
Patent No. 6703491
GENERAL INFORMATION:
APPLICANT: Homburger et al.
TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
FILE REFERENCE: File Reference: 7326-094
CURRENT APPLICATION NUMBER: US/09/270,767
CURRENT FILING DATE: 1999-03-17
NUMBER OF SEQ ID NOS: 62517
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 45034
LENGTH: 249
TYPE: PRT
ORGANISM: Drosophila melanogaster
FEATURE:
OTHER INFORMATION: Xaa means any amino acid
US-09-270-767-45034

Query Match 69.8%; Score 30; DB 2; Length 249;
Best Local Similarity 66.7%; Pred. No. 3.1e+02;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 LFLNTLSFV 9
| | | | |
Db 26 VFNRLSFV 34

RESULT 36
US-09-270-767-61451
Sequence 61451, Application US/09270767
Patent No. 6703491
GENERAL INFORMATION:
APPLICANT: Homburger et al.
TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
FILE REFERENCE: File Reference: 7326-094
CURRENT APPLICATION NUMBER: US/09/270,767
CURRENT FILING DATE: 1999-03-17
NUMBER OF SEQ ID NOS: 62517
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 61451
LENGTH: 283
TYPE: PRT
ORGANISM: Drosophila melanogaster
FEATURE:
OTHER INFORMATION: Xaa means any amino acid
US-09-270-767-61451

Query Match 69.8%; Score 30; DB 2; Length 283;
Best Local Similarity 55.6%; Pred. No. 3.5e+02;
Matches 5; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 1 LFLNTLSFV 9
| | | | |
Db 60 MFYNTLNVV 68

RESULT 37
US-08-748-506-14
Sequence 14, Application US/08748506
Patent No. 6159707
GENERAL INFORMATION:
APPLICANT: Ronnett et al.
TITLE OF INVENTION: NOVEL SPERM RECEPTORS
NUMBER OF SEQUENCES: 31
CORRESPONDENCE ADDRESS:
ADDRESSEE: Leydig, Volt & Mayer, Ltd.
STREET: Two Prudential Plaza, Suite 4900
CITY: Chicago
STATE: IL
COUNTRY: US
ZIP: 60601-6780
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/748,506
FILING DATE: 08-NOV-1996
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 60/033,751
FILING DATE: 09-NOV-1995
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION: 74940
REFERENCE/DOCKET NUMBER:
TELEPHONE: 312-616-5600
TELEFAX: 312-616-5700
INFORMATION FOR SEQ ID NO: 14:
SEQUENCE CHARACTERISTICS:
LENGTH: 327 amino acids
TYPE: amino acid
STRANDEDNESS: unknown
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-748-506-14

Query Match 69.8%; Score 30; DB 2; Length 327;
Best Local Similarity 75.0%; Pred. No. 4.1e+02;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 2 FLNTLSFV 9
DB 68 FLSTFSFV 75

RESULT 38
US-08-748-506-24
Sequence 24, Application US/08748506
Patent No. 6159707
GENERAL INFORMATION:
APPLICANT: Ronnett et al.
TITLE OF INVENTION: NOVEL SPERM RECEPTORS
NUMBER OF SEQUENCES: 31
CORRESPONDENCE ADDRESS:
ADDRESSEE: Levdiy, Volt & Mayer, Ltd.
STREET: Two Prudential Plaza, Suite 4900
CITY: Chicago
STATE: IL
COUNTRY: US
ZIP: 60601-6780
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/748,506
FILING DATE: 08-NOV-1996
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 60/033,751
FILING DATE: 09-NOV-1995
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION: 74940
REFERENCE/DOCKET NUMBER:
TELEPHONE: 312-616-5600
TELEFAX: 312-616-5700
INFORMATION FOR SEQ ID NO: 24:
SEQUENCE CHARACTERISTICS:
LENGTH: 327 amino acids
TYPE: amino acid
TOPOLOGY: unknown
MOLECULE TYPE: protein

US-08-748-506-24

Query Match 69.8%; Score 30; DB 2; Length 327;
Best Local Similarity 75.0%; Pred. No. 4.1e+02;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 2 FLNTLSFV 9
DB 68 FLSTFSFV 75

RESULT 39
US-10-012-231A-33
Sequence 33, Application US/10012231A
Patent No. 692435
GENERAL INFORMATION:
APPLICANT: Baker, Kevin P.
APPLICANT: Botstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan I.
APPLICANT: Ferrara, Napoleone
APPLICANT: Fong, Sherman
APPLICANT: Gao, Wei-Qiang
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, Christopher J.
APPLICANT: Guirney, Austin L.
APPLICANT: Hillan, Kenneth J.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: P2830PIC23
CURRENT APPLICATION NUMBER: US/10/012,231A
PRIOR FILING DATE: 2002-06-10
Prior Application removed - See File Wrapper or Palm
NUMBER OF SEQ ID NOS: 477
SEQ ID NO 33
LENGTH: 335
TYPE: PRT
ORGANISM: Homo sapiens
US-10-012-231A-33

Query Match 69.8%; Score 30; DB 2; Length 335;
Best Local Similarity 66.7%; Pred. No. 4.2e+02;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 FLNTLSFV 9
DB 1 MFLATLSFL 9

RESULT 40
US-10-015-389A-33
Sequence 33, Application US/10015389A
Patent No. 6936436
GENERAL INFORMATION:
APPLICANT: Baker, Kevin P.
APPLICANT: Botstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan I.
APPLICANT: Ferrara, Napoleone
APPLICANT: Fong, Sherman
APPLICANT: Gao, Wei-Qiang
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, Christopher J.
APPLICANT: Guirney, Austin L.
APPLICANT: Hillan, Kenneth J.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
Acids Encoding the Same

FILE REFERENCE: P2830PIC48
CURRENT APPLICATION NUMBER: US/10/015,389A
CURRENT FILING DATE: 2002-06-25
Prior Application removed - See File Wrapper or Palm
NUMBER OF SEQ ID NOS: 477
SEQ ID NO 33
LENGTH: 335
TYPE: PRT
ORGANISM: Homo sapiens
US-10-015-389A-33

Query Match 69.8%; Score 30; DB 2; Length 335;
Best Local Similarity 66.7%; Pred. No. 4.2e+02;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 1 LFLNTLSFV 9
: || || || :
Db 1 MFLATLSFL 9

RESULT 41
US-10-006-768A-33
Sequence 33, Application US/10006768A
Patent No. 6936697

GENERAL INFORMATION:
APPLICANT: Baker, Kevin P.
APPLICANT: Botstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan I.
APPLICANT: Ferrara, Napoleone
APPLICANT: Fong, Sherman
APPLICANT: Gao, Wei-Qiang
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, Christopher J.
APPLICANT: Gurney, Austin L.
APPLICANT: Hillan, Kenneth J.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
TITLE OF INVENTION: Acids Encoding the Same
FILE REFERENCE: P2830PIC10
CURRENT APPLICATION NUMBER: US/10/006,768A
CURRENT FILING DATE: 2002-03-05
NUMBER OF SEQ ID NOS: 477
Prior Application removed - See File Wrapper or Palm
SEQ ID NO 33
LENGTH: 335
TYPE: PRT
ORGANISM: Homo sapiens
US-10-006-768A-33

Query Match 69.8%; Score 30; DB 2; Length 335;
Best Local Similarity 66.7%; Pred. No. 4.2e+02;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 1 LFLNTLSFV 9
: || || || :
Db 1 MFLATLSFL 9

RESULT 42
US-10-015-671A-33
Sequence 33, Application US/10015671A
Patent No. 6946263

GENERAL INFORMATION:
APPLICANT: Baker, Kevin P.
APPLICANT: Botstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan I.
APPLICANT: Ferrara, Napoleone
APPLICANT: Fong, Sherman
APPLICANT: Gao, Wei-Qiang

APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, Christopher J.
APPLICANT: Gurney, Austin L.
APPLICANT: Hillan, Kenneth J.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
TITLE OF INVENTION: Acids Encoding the Same
FILE REFERENCE: P2830PIC47
CURRENT APPLICATION NUMBER: US/10/015,671A
CURRENT FILING DATE: 2001-12-11
Prior Application removed - See File Wrapper or Palm
NUMBER OF SEQ ID NOS: 477
SEQ ID NO 33
LENGTH: 335
TYPE: PRT
ORGANISM: Homo sapiens
US-10-015-671A-33

Query Match 69.8%; Score 30; DB 2; Length 335;
Best Local Similarity 66.7%; Pred. No. 4.2e+02;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 1 LFLNTLSFV 9
: || || || :
Db 1 MFLATLSFL 9

RESULT 43
US-10-015-393A-33
Sequence 33, Application US/10015393A
Patent No. 6951737

GENERAL INFORMATION:
APPLICANT: Baker, Kevin P.
APPLICANT: Botstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan I.
APPLICANT: Ferrara, Napoleone
APPLICANT: Fong, Sherman
APPLICANT: Gao, Wei-Qiang
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, Christopher J.
APPLICANT: Gurney, Austin L.
APPLICANT: Hillan, Kenneth J.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
TITLE OF INVENTION: Acids Encoding the Same
FILE REFERENCE: P2830PIC46
CURRENT APPLICATION NUMBER: US/10/015,393A
CURRENT FILING DATE: 2002-06-10
Prior Application removed - See File Wrapper or Palm
NUMBER OF SEQ ID NOS: 477
SEQ ID NO 33
LENGTH: 335
TYPE: PRT
ORGANISM: Homo sapiens
US-10-015-393A-33

Query Match 69.8%; Score 30; DB 2; Length 335;
Best Local Similarity 66.7%; Pred. No. 4.2e+02;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 1 LFLNTLSFV 9
: || || || :
Db 1 MFLATLSFL 9

RESULT 44
US-10-011-833A-33
Sequence 33, Application US/10011833A

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; Patent No. 6951920
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Goddard, Audrey
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth J.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: P2830P1C22
; CURRENT APPLICATION NUMBER: US/10/011,833A
; PRIOR FILING DATE: 2002-06-25
; Prior Application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 477
; SEQ ID NO 33
; LENGTH: 335
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-10-011-833A-33

Query Match
Best Local Similarity 69.8%; Score 30; DB 2; Length 335;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 LPLNTLSFV 9
DB 1 MFLATLSFL 9

RESULT 45
US-10-006-041A-33
; Sequence 33, Application US/10006041A
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Goddard, Audrey
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth J.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: P2830P1C8
; CURRENT APPLICATION NUMBER: US/10/006,041A
; PRIOR FILING DATE: 2001-12-06
; Prior Application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 477
; SEQ ID NO 33
; LENGTH: 335
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-10-006-041A-33

Query Match
Best Local Similarity 69.8%; Score 30; DB 2; Length 335;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;
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QY 1 LPLNTLSFV 9
DB 1 MFLATLSFL 9

RESULT 46
US-10-012-064A-33
; Sequence 33, Application US/10012064A
; Patent No. 6953841
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Goddard, Audrey
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth J.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: P2830P1C19
; CURRENT APPLICATION NUMBER: US/10/012,064A
; PRIOR FILING DATE: 2002-07-15
; PRIOR APPLICATION NUMBER: 60/098716
; PRIOR FILING DATE: 1998-09-01
; PRIOR APPLICATION NUMBER: 60/098723
; PRIOR FILING DATE: 1998-09-01
; PRIOR APPLICATION NUMBER: 60/098749
; PRIOR FILING DATE: 1998-09-01
; PRIOR APPLICATION NUMBER: 60/098750
; PRIOR FILING DATE: 1998-09-01
; PRIOR APPLICATION NUMBER: 60/098803
; PRIOR FILING DATE: 1998-09-02
; PRIOR APPLICATION NUMBER: 60/098821
; PRIOR FILING DATE: 1998-09-02
; PRIOR APPLICATION NUMBER: 60/098843
; PRIOR FILING DATE: 1998-09-02
; PRIOR APPLICATION NUMBER: 60/099536
; PRIOR FILING DATE: 1998-09-09
; PRIOR APPLICATION NUMBER: 60/099596
; PRIOR FILING DATE: 1998-09-09
; PRIOR APPLICATION NUMBER: 60/099598
; PRIOR FILING DATE: 1998-09-09
; Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 477
; SEQ ID NO 33
; LENGTH: 335
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-10-012-064A-33

Query Match
Best Local Similarity 69.8%; Score 30; DB 2; Length 335;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 LPLNTLSFV 9
DB 1 MFLATLSFL 9

RESULT 47
US-08-415-751-20
; Sequence 20, Application US/08415751
; Patent No. 5643772
; GENERAL INFORMATION:
; APPLICANT: PETERSEN, CAROLYN
```

APPLICANT: LEECH, JAMES
APPLICANT: NELSON, RICHARD, C.
APPLICANT: GUT, JIRI
TITLE OF INVENTION: POLYPEPTIDES BINDING ANTI-
TITLE OF INVENTION: CRYPTOSPORIDIUM ANTIBODIES, DNA
TITLE OF INVENTION: AND RNA ENCODING THEM, HYBRID
TITLE OF INVENTION: VECTOR AND TRANSFORMED HOST AND
TITLE OF INVENTION: METHODS FOR IMMUNOTHERAPY AND
TITLE OF INVENTION: DIAGNOSIS AND KIT
NUMBER OF SEQUENCES: 50
CORRESPONDENCE ADDRESS:
ADDRESSEE: PHILLIPS, MOORE, LEMPFO & FINLEY
STREET: 385 Sherman Avenue, Suite 6
CITY: Palo Alto
STATE: California
COUNTRY: United States of America
ZIP: 94306-1840
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette - 3.5 inch, 1.44 Kb storage
COMPUTER: PC
OPERATING SYSTEM: DOS
SOFTWARE: Wordperfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/415,751
FILING DATE: 03-APR-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/071,880
FILING DATE: June 1, 1993
APPLICATION NUMBER: 07/891,301
FILING DATE: May 29, 1992
ATTORNEY/AGENT INFORMATION:
NAME: Hana Dolezalova
REGISTRATION NUMBER: 30,518
REFERENCE/DOCKET NUMBER: 480.19-2 (HHD)
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 324-1677
TELEFAX: (415) 324-1678
INFORMATION FOR SEQ ID NO: 20:
SEQUENCE CHARACTERISTICS:
LENGTH: 350 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
ORIGINAL SOURCE:
ORGANISM: Cryptosporidium parvum
FEATURE:
NAME/KEY: Positions coded by nonsense codons are
NAME/KEY: identified as Xaa.
US-08-415-751-20

Query Match 69.8%; Score 30; DB 1; Length 350;
Best Local Similarity 55.6%; Pred. No. 4.4e+02;
Matches 5; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 1 FLNTLSFV 9
Db 333 LYLNTLSYI 341

RESULT 48
US-09-328-352-5367
Sequence 5367, Application US/09328352
Patent No. 6562958
GENERAL INFORMATION:
APPLICANT: Gary L. Breton et al.
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO ACINETOBACTER
TITLE OF INVENTION: BAUMANNII FOR DIAGNOSTICS AND THERAPEUTICS
FILE REFERENCE: GTC99-03PA
CURRENT APPLICATION NUMBER: US/09/328,352
CURRENT FILING DATE: 1999-06-04
NUMBER OF SEQ ID NOS: 8252

SEQ ID NO 5367
LENGTH: 387
TYPE: PRT
ORGANISM: Acinetobacter baumannii
US-09-328-352-5367

Query Match 69.8%; Score 30; DB 2; Length 387;
Best Local Similarity 62.5%; Pred. No. 4.9e+02;
Matches 5; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY 2 FLNTLSFV 9
Db 100 FVNTLSYL 107

RESULT 49
US-09-270-767-45465
Sequence 45465, Application US/09270767
Patent No. 6703491
GENERAL INFORMATION:
APPLICANT: Homburger et al.
TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
FILE REFERENCE: File Reference: 7326-094
CURRENT APPLICATION NUMBER: US/09/270,767
CURRENT FILING DATE: 1999-03-17
NUMBER OF SEQ ID NOS: 62517
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 45465
LENGTH: 441
TYPE: PRT
ORGANISM: Drosophila melanogaster
FEATURE:
OTHER INFORMATION: Xaa means any amino acid
US-09-270-767-45465

Query Match 69.8%; Score 30; DB 2; Length 441;
Best Local Similarity 71.4%; Pred. No. 5.5e+02;
Matches 5; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 3 LNTLSFV 9
Db 148 LNTWSFI 154

RESULT 50
US-08-984-171-3
Sequence 3, Application US/08984171
Patent No. 5952177
GENERAL INFORMATION:
APPLICANT: Bandman, Olga
APPLICANT: Lal, Preeti
APPLICANT: Corley, Neil C.
APPLICANT: Au-Young, Janice
TITLE OF INVENTION: HUMAN CYTOSOLIC ISOCITRATE
TITLE OF INVENTION: DEHYDROGENASE
NUMBER OF SEQUENCES: 4
CORRESPONDENCE ADDRESS:
ADDRESSEE: Incyte Pharmaceuticals, Inc.
STREET: 3174 Porter Dr.
CITY: Palo Alto
STATE: CA
COUNTRY: USA
ZIP: 94304
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: PasteSeq for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/984,171
FILING DATE: Filed Herewith
PRIOR APPLICATION DATA:
APPLICATION NUMBER:

FILED DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Billings, Lucy J.
REGISTRATION NUMBER: 36,749
REFERENCE/DOCKET NUMBER: PF-0434 US
TELECOMMUNICATION INFORMATION:
TELEPHONE: 650-855-0555
TELEFAX: 650-845-4166
TELEX:
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 452 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
IMMEDIATE SOURCE:
LIBRARY: GenBank
CLONE: 872121
US-08-984-171-3

Query Match 69.8%; Score 30; DB 1; Length 452;
Best Local Similarity 62.5%; Pred. No. 5.7e+02;
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;
QY 2 FLNTLSFV 9
DB 431 FLNTMDFL 438

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GenCore version 5.1.7
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OM protein - protein search, using sw model

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(without alignments)
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Title: US-08-170-344-33
Perfect score: 43
Sequence: 1 LPLNTLSFV 9

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Gapop 10.0 , Gapext 0.5

Searched: 1867569 seqs, 417829326 residues
Total number of hits satisfying chosen parameters: 1867569

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 1000 summaries

Database : Published Applications AA_Main:
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2: /cgn2_6/prodata/1/pubppa/US08_PUBCOMB.pep:*
3: /cgn2_6/prodata/1/pubppa/US09_PUBCOMB.pep:*
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Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	43	100.0	10	US-10-751-845-146	Sequence 146, App
2	43	100.0	17	US-10-432-465-103	Sequence 103, App
3	43	100.0	17	US-10-433-091-72	Sequence 72, App
4	43	100.0	17	US-10-751-845-156	Sequence 156, App
5	43	100.0	20	US-10-432-465-102	Sequence 102, App
6	43	100.0	20	US-10-433-091-71	Sequence 71, App
7	43	100.0	105	US-10-433-091-4	Sequence 4, App
8	43	100.0	118	US-10-472-724-8	Sequence 8, App
9	43	100.0	119	US-10-751-845-159	Sequence 159, App
10	43	100.0	227	US-10-000-903-16	Sequence 16, App
11	43	100.0	227	US-10-000-903-19	Sequence 19, App
12	43	100.0	227	US-10-899-771-16	Sequence 16, App
13	43	100.0	227	US-10-899-771-19	Sequence 19, App
14	43	100.0	236	US-10-751-845-157	Sequence 157, App
15	43	100.0	237	US-10-751-845-158	Sequence 158, App
16	43	100.0	261	US-10-751-845-160	Sequence 160, App
17	43	100.0	383	US-10-000-903-23	Sequence 23, App
18	43	100.0	383	US-10-899-771-23	Sequence 23, App
19	39	90.7	9	US-10-751-845-123	Sequence 123, App
20	37	86.0	105	US-10-800-023-28	Sequence 28, App
21	36	83.7	13	US-10-447-161-145	Sequence 145, App
22	36	83.7	355	US-11-097-143-17562	Sequence 17562, A
23	35	81.4	292	US-09-919-497-71	Sequence 71, App
24	34	79.1	65	US-10-437-963-182385	Sequence 182385, App
25	34	79.1	111	US-10-424-599-148582	Sequence 148582, App
26	34	79.1	183	US-10-437-963-124028	Sequence 124028, App
27	34	79.1	300	US-10-774-355A-2092	Sequence 2092, App

26	33	76.7	53	4	US-10-424-599-162043	Sequence 162043,
29	33	76.7	59	4	US-10-424-599-220841	Sequence 220841,
30	33	76.7	239	4	US-10-282-132A-54564	Sequence 54564, A
31	33	76.7	289	4	US-10-151-832-6	Sequence 6, App
32	33	76.7	289	5	US-10-986-427-6	Sequence 6, App
33	33	76.7	310	5	US-10-774-355A-1941	Sequence 1941, App
34	33	76.7	318	4	US-10-300-846-10	Sequence 10, App
35	33	76.7	319	5	US-10-774-355A-1383	Sequence 1383, App
36	33	76.7	442	4	US-10-360-499-9735	Sequence 9735, App
37	33	76.7	1668	4	US-10-424-599-214588	Sequence 214588,
38	33	76.7	52	4	US-10-425-115-223059	Sequence 223059,
39	32	74.4	64	4	US-10-424-599-153643	Sequence 153643,
40	32	74.4	103	4	US-10-424-599-150864	Sequence 150864,
41	32	74.4	157	4	US-10-767-701-39531	Sequence 39531, A
42	32	74.4	209	4	US-10-424-599-221962	Sequence 221962,
43	32	74.4	223	4	US-10-437-963-124750	Sequence 124750,
44	32	74.4	237	3	US-09-746-284-2	Sequence 2, App
45	32	74.4	318	5	US-10-774-355A-1977	Sequence 1977, App
46	32	74.4	328	3	US-09-886-055-301	Sequence 301, App
47	32	74.4	328	3	US-09-804-291-301	Sequence 301, App
48	32	74.4	328	4	US-10-024-399-32	Sequence 32, App
49	32	74.4	328	4	US-10-017-161-286	Sequence 286, App
50	32	74.4	328	4	US-10-387-629-110	Sequence 110, App
51	32	74.4	328	4	US-10-292-798-256	Sequence 256, App
52	32	74.4	328	4	US-10-297-021-21	Sequence 21, App
53	32	74.4	328	4	US-10-343-650A-162	Sequence 362, App
54	32	74.4	328	5	US-10-819-316-301	Sequence 301, App
55	32	74.4	400	5	US-10-739-930-8089	Sequence 8089, App
56	31	72.1	44	4	US-10-425-115-315761	Sequence 315761,
57	31	72.1	49	4	US-10-425-115-193849	Sequence 193849,
58	31	72.1	56	4	US-10-437-963-189851	Sequence 189851,
59	31	72.1	58	4	US-10-424-599-223717	Sequence 223717,
60	31	72.1	61	4	US-10-425-115-345615	Sequence 345615,
61	31	72.1	63	3	US-09-864-408A-1574	Sequence 1574, App
62	31	72.1	66	5	US-10-919-048-42	Sequence 42, App
63	31	72.1	66	5	US-10-919-048-42	Sequence 42, App
64	31	72.1	87	4	US-10-425-114-62132	Sequence 62132, A
65	31	72.1	87	4	US-10-425-114-62132	Sequence 62132, A
66	31	72.1	91	4	US-10-437-963-12563	Sequence 12563,
67	31	72.1	108	4	US-10-424-599-259383	Sequence 259383,
68	31	72.1	130	4	US-10-363-829-450	Sequence 450, App
69	31	72.1	157	4	US-10-437-963-121293	Sequence 121293,
70	31	72.1	179	4	US-10-017-161-1224	Sequence 1224, App
71	31	72.1	179	4	US-10-292-798-1028	Sequence 1028, App
72	31	72.1	201	3	US-09-811-284-191	Sequence 191, App
73	31	72.1	204	4	US-10-424-599-143609	Sequence 143609,
74	31	72.1	207	4	US-10-135-807-2	Sequence 2, App
75	31	72.1	234	3	US-09-746-284-4	Sequence 4, App
76	31	72.1	280	4	US-10-292-798-712	Sequence 712, App
77	31	72.1	302	4	US-10-282-122A-71221	Sequence 71221, A
78	31	72.1	303	4	US-10-767-701-37432	Sequence 37432, A
79	31	72.1	310	5	US-10-774-355A-2589	Sequence 2589, App
80	31	72.1	311	4	US-10-093-463-88	Sequence 88, App
81	31	72.1	319	3	US-09-886-055-147	Sequence 147, App
82	31	72.1	319	3	US-09-804-291-147	Sequence 147, App
83	31	72.1	319	3	US-09-207-218-14	Sequence 14, App
84	31	72.1	319	3	US-09-207-218-16	Sequence 16, App
85	31	72.1	319	4	US-10-017-161-186	Sequence 186, App
86	31	72.1	319	4	US-10-182-822A-16	Sequence 16, App
87	31	72.1	319	4	US-10-387-629-26	Sequence 26, App
88	31	72.1	319	4	US-10-292-798-164	Sequence 164, App
89	31	72.1	319	4	US-10-343-650A-420	Sequence 420, App
90	31	72.1	321	4	US-10-774-355A-1384	Sequence 1384, App
91	31	72.1	319	5	US-10-819-316-147	Sequence 147, App
92	31	72.1	319	5	US-10-819-316-147	Sequence 147, App
93	31	72.1	335	4	US-10-425-114-68674	Sequence 68674, A
94	31	72.1	339	4	US-10-767-701-42506	Sequence 42506, A
95	31	72.1	330	4	US-10-724-972A-5476	Sequence 5476, App
96	31	72.1	332	4	US-10-425-115-239449	Sequence 239449,
97	31	72.1	436	5	US-10-899-557-27	Sequence 27, App
98	31	72.1	450	5	US-10-425-115-349006	Sequence 349006,
99	31	72.1	514	5	US-10-618-281-27	Sequence 27, App
100	31	72.1	555	4	US-10-407-866-95	Sequence 95, App

101	31	72.1	561	4	US-10-437-963-169643	Sequence 169643,	174	30	69.8	308	4	US-10-343-650A-406	Sequence 406, App
102	31	72.1	566	5	US-10-128-558-181	Sequence 181, App	175	30	69.8	308	4	US-10-467-252-29	Sequence 29, App
103	31	72.1	631	3	US-09-848-035-4	Sequence 4, App	176	30	69.8	308	5	US-10-774-355A-2099	Sequence 2099, App
104	31	72.1	631	3	US-09-986-224-4	Sequence 4, App	177	30	69.8	308	5	US-10-774-355A-2479	Sequence 2479, App
105	31	72.1	631	3	US-10-128-714-3575	Sequence 3575, App	178	30	69.8	308	5	US-10-774-355A-1565	Sequence 1565, App
106	31	72.1	631	5	US-10-116-422-4	Sequence 4, App	179	30	69.8	308	5	US-10-819-316-251	Sequence 251, App
107	31	72.1	642	4	US-10-982-122A-51332	Sequence 51332, A	180	30	69.8	309	3	US-09-779-679-36	Sequence 36, App
108	31	72.1	646	4	US-10-982-122A-50435	Sequence 50435, A	181	30	69.8	309	4	US-10-024-212-124	Sequence 124, App
109	31	72.1	658	3	US-09-815-242-11824	Sequence 11824, A	182	30	69.8	309	4	US-10-292-798-90	Sequence 90, App
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604	30	69.8	335	4	US-10-208-029-174	Sequence 174, App	677	30	69.8	335	4	US-10-006-768A-33	Sequence 33, Appl
605	30	69.8	335	4	US-10-208-030-174	Sequence 174, App	678	30	69.8	335	4	US-10-017-610A-33	Sequence 33, Appl
606	30	69.8	335	4	US-10-015-393A-33	Sequence 33, Appl	679	30	69.8	335	4	US-10-198-760-174	Sequence 174, App
607	30	69.8	335	4	US-10-232-232-174	Sequence 174, App	680	30	69.8	335	4	US-10-201-772-174	Sequence 174, App
608	30	69.8	335	4	US-10-232-232-174	Sequence 174, App	681	30	69.8	335	4	US-10-006-063A-33	Sequence 33, Appl
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611	30	69.8	335	4	US-10-015-869A-33	Sequence 174, App	684	30	69.8	335	4	US-10-187-739-174	Sequence 174, App
612	30	69.8	335	4	US-10-173-693-174	Sequence 174, App	685	30	69.8	335	4	US-10-206-907-174	Sequence 174, App

685	30	69.8	335	4	US-10-015-391A-33	Sequence 33, Appl	758	30	69.8	335	4	US-10-013-912A-33	Sequence 33, Appl
686	30	69.8	335	4	US-10-183-009-174	Sequence 174, App	759	30	69.8	335	4	US-10-015-653A-33	Sequence 33, Appl
687	30	69.8	335	4	US-10-187-755-174	Sequence 174, App	760	30	69.8	335	4	US-10-012-101B-33	Sequence 33, Appl
688	30	69.8	335	4	US-10-017-407A-33	Sequence 33, Appl	761	30	69.8	335	4	US-10-015-480A-33	Sequence 33, Appl
689	30	69.8	335	4	US-10-011-833A-33	Sequence 33, Appl	762	30	69.8	335	4	US-10-015-715A-33	Sequence 33, Appl
690	30	69.8	335	4	US-10-006-041A-33	Sequence 33, Appl	763	30	69.8	335	4	US-10-012-237A-33	Sequence 33, Appl
691	30	69.8	335	4	US-10-015-822A-33	Sequence 33, Appl	764	30	69.8	335	4	US-10-013-906A-33	Sequence 33, Appl
692	30	69.8	335	4	US-10-015-387A-33	Sequence 33, Appl	765	30	69.8	335	4	US-10-013-988A-33	Sequence 33, Appl
693	30	69.8	335	4	US-10-006-130A-33	Sequence 33, Appl	766	30	69.8	335	4	US-10-012-753A-33	Sequence 33, Appl
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696	30	69.8	335	4	US-10-187-749-174	Sequence 174, App	769	30	69.8	335	4	US-10-015-389A-33	Sequence 33, Appl
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702	30	69.8	335	4	US-10-173-690-174	Sequence 174, App	775	30	69.8	335	4	US-10-179-509-174	Sequence 174, App
703	30	69.8	335	4	US-10-173-691-174	Sequence 174, App	776	30	69.8	335	4	US-10-194-486-174	Sequence 174, App
704	30	69.8	335	4	US-10-173-694-174	Sequence 174, App	777	30	69.8	335	4	US-10-195-900-174	Sequence 174, App
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708	30	69.8	335	4	US-10-174-583-174	Sequence 174, App	781	30	69.8	335	4	US-10-183-005-174	Sequence 174, App
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710	30	69.8	335	4	US-10-174-587-174	Sequence 174, App	783	30	69.8	335	4	US-10-199-463-174	Sequence 174, App
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712	30	69.8	335	4	US-10-174-591-174	Sequence 174, App	785	30	69.8	335	4	US-10-207-915-174	Sequence 174, App
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720	30	69.8	335	4	US-10-176-480-174	Sequence 174, App	793	30	69.8	335	4	US-10-199-670-174	Sequence 174, App
721	30	69.8	335	4	US-10-176-489-174	Sequence 174, App	794	30	69.8	335	4	US-10-201-858-174	Sequence 174, App
722	30	69.8	335	4	US-10-176-754-174	Sequence 174, App	795	30	69.8	335	4	US-10-205-890-174	Sequence 174, App
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729	30	69.8	335	4	US-10-179-508-174	Sequence 174, App	802	30	69.8	335	5	US-10-175-749-174	Sequence 174, App
730	30	69.8	335	4	US-10-179-512-174	Sequence 174, App	803	30	69.8	335	5	US-10-180-554-174	Sequence 174, App
731	30	69.8	335	4	US-10-179-515-174	Sequence 174, App	804	30	69.8	335	6	US-11-025-607-33	Sequence 33, Appl
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733	30	69.8	335	4	US-10-017-306A-33	Sequence 33, Appl	806	30	69.8	348	3	US-09-949-925-178	Sequence 178, App
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735	30	69.8	335	4	US-10-173-703-174	Sequence 174, App	808	30	69.8	365	4	US-10-437-063-185789	Sequence 185789, App
736	30	69.8	335	4	US-10-176-981-174	Sequence 174, App	809	30	69.8	406	5	US-10-450-763-50189	Sequence 50189, App
737	30	69.8	335	4	US-10-176-983-174	Sequence 174, App	810	30	69.8	465	5	US-10-732-923-190	Sequence 7375, App
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740	30	69.8	335	4	US-10-176-490-174	Sequence 174, App	813	30	69.8	501	4	US-10-425-114-185459	Sequence 38549, App
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745	30	69.8	335	4	US-10-179-517-174	Sequence 174, App	818	30	69.8	546	4	US-10-424-599-1223067	Sequence 223067, App
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747	30	69.8	335	4	US-10-017-867A-33	Sequence 33, Appl	820	30	69.8	550	4	US-10-193-452-58	Sequence 58, Appl
748	30	69.8	335	4	US-10-012-064A-33	Sequence 33, Appl	821	30	69.8	584	4	US-10-310-154-395	Sequence 35, App
749	30	69.8	335	4	US-10-202-475-174	Sequence 174, App	822	30	69.8	584	5	US-10-732-923-142	Sequence 142, App
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751	30	69.8	335	4	US-10-015-671A-33	Sequence 33, Appl	824	30	69.8	597	3	US-09-853-386-93	Sequence 93, Appl
752	30	69.8	335	4	US-10-015-610A-33	Sequence 33, Appl	825	30	69.8	597	4	US-10-414-080-33	Sequence 32, Appl
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754	30	69.8	335	4	US-10-012-752A-33	Sequence 33, Appl	827	30	69.8	601	3	US-09-853-386-94	Sequence 94, Appl
755	30	69.8	335	4	US-10-012-754A-33	Sequence 33, Appl	828	30	69.8	601	4	US-10-414-080-31	Sequence 31, Appl
756	30	69.8	335	4	US-10-013-910A-33	Sequence 33, Appl	829	30	69.8	644	4	US-10-282-122A-46238	Sequence 46238, App
757	30	69.8	335	4	US-10-013-911A-33	Sequence 33, Appl	830	30	69.8	652	4	US-10-282-122A-73132	Sequence 73132, App

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852	30	69.8	816	3	US-09-978-608A-375	Sequence 375, App	925	30	69.8	816	4	US-10-013-923A-375	Sequence 375, App
853	30	69.8	816	3	US-09-978-585A-375	Sequence 375, App	926	30	69.8	816	4	US-10-013-923A-375	Sequence 375, App
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855	30	69.8	816	3	US-09-978-403A-375	Sequence 375, App	928	30	69.8	816	4	US-10-013-923A-375	Sequence 375, App
856	30	69.8	816	3	US-09-978-564A-375	Sequence 375, App	929	30	69.8	816	4	US-10-013-923A-375	Sequence 375, App
857	30	69.8	816	3	US-09-999-833A-375	Sequence 375, App	930	30	69.8	816	4	US-10-013-923A-375	Sequence 375, App
858	30	69.8	816	3	US-09-981-915A-375	Sequence 375, App	931	30	69.8	816	4	US-10-013-919A-375	Sequence 375, App
859	30	69.8	816	3	US-09-978-824-375	Sequence 375, App	932	30	69.8	816	4	US-10-193-452-28	Sequence 28, App1
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862	30	69.8	816	3	US-09-978-423A-375	Sequence 375, App	935	30	69.8	816	4	US-10-013-920A-375	Sequence 375, App
863	30	69.8	816	3	US-09-978-193A-375	Sequence 375, App	936	30	69.8	816	4	US-10-164-749A-375	Sequence 375, App
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872	30	69.8	816	3	US-09-978-194A-375	Sequence 375, App	945	30	69.8	816	4	US-10-496-011-64	Sequence 64, App1
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874	30	69.8	816	3	US-09-978-549A-375	Sequence 375, App	947	30	69.8	816	4	US-10-723-860-545	Sequence 545, App
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883	30	69.8	816	4	US-10-016-177A-375	Sequence 375, App	956	30	69.8	816	4	US-10-496-011-6	Sequence 6, App1
884	30	69.8	816	4	US-10-166-709A-375	Sequence 375, App	957	30	69.8	816	4	US-10-496-011-6	Sequence 6, App1
885	30	69.8	816	4	US-10-143-031A-375	Sequence 375, App	958	30	69.8	816	4	US-10-496-011-6	Sequence 6, App1
886	30	69.8	816	4	US-10-143-031A-375	Sequence 375, App	959	30	69.8	816	4	US-10-496-011-6	Sequence 6, App1
887	30	69.8	816	4	US-10-143-031A-375	Sequence 375, App	960	30	69.8	816	4	US-10-496-011-6	Sequence 6, App1
888	30	69.8	816	4	US-10-002-967A-375	Sequence 375, App	961	30	69.8	816	4	US-10-496-011-6	Sequence 6, App1
889	30	69.8	816	4	US-10-017-083A-375	Sequence 375, App	962	30	69.8	816	4	US-10-496-011-6	Sequence 6, App1
890	30	69.8	816	4	US-10-145-128A-375	Sequence 375, App	963	29	67.4	816	4	US-10-432-465-115	Sequence 115, App
891	30	69.8	816	4	US-10-017-191A-375	Sequence 375, App	964	29	67.4	816	4	US-10-432-465-115	Sequence 115, App
892	30	69.8	816	4	US-10-143-028A-375	Sequence 375, App	965	29	67.4	816	4	US-10-432-465-115	Sequence 115, App
893	30	69.8	816	4	US-10-143-029A-375	Sequence 375, App	966	29	67.4	816	4	US-10-432-465-115	Sequence 115, App
894	30	69.8	816	4	US-10-145-089A-375	Sequence 375, App	967	29	67.4	816	4	US-10-432-465-115	Sequence 115, App
895	30	69.8	816	4	US-10-165-067A-375	Sequence 375, App	968	29	67.4	816	4	US-10-432-465-115	Sequence 115, App
896	30	69.8	816	4	US-10-145-017A-375	Sequence 375, App	969	29	67.4	816	4	US-10-432-465-115	Sequence 115, App
897	30	69.8	816	4	US-10-164-728A-375	Sequence 375, App	970	29	67.4	816	4	US-10-432-465-115	Sequence 115, App
898	30	69.8	816	4	US-10-013-926A-375	Sequence 375, App	971	29	67.4	816	4	US-10-432-465-115	Sequence 115, App
899	30	69.8	816	4	US-10-165-247A-375	Sequence 375, App	972	29	67.4	816	4	US-10-432-465-115	Sequence 115, App
900	30	69.8	816	4	US-10-145-124A-375	Sequence 375, App	973	29	67.4	816	4	US-10-432-465-115	Sequence 115, App
901	30	69.8	816	4	US-10-160-502A-375	Sequence 375, App	974	29	67.4	816	4	US-10-432-465-115	Sequence 115, App
902	30	69.8	816	4	US-10-145-087A-375	Sequence 375, App	975	29	67.4	816	4	US-10-432-465-115	Sequence 115, App
903	30	69.8	816	4	US-10-017-086A-375	Sequence 375, App	976	29	67.4	816	4	US-10-432-465-115	Sequence 115, App

977 29 67.4 46 4 US-10-424-599-260986 Sequence 260986,
978 29 67.4 47 4 US-10-424-599-152918 Sequence 152918,
979 29 67.4 50 4 US-10-106-698-7376 Sequence 7376, Ap
980 29 67.4 51 4 US-10-424-599-160083 Sequence 160083,
981 29 67.4 53 4 US-10-424-599-256041 Sequence 256041,
982 29 67.4 53 4 US-10-424-599-273661 Sequence 273661,
983 29 67.4 54 4 US-10-424-599-166733 Sequence 166733,
984 29 67.4 54 5 US-10-450-763-40260 Sequence 40260, A
985 29 67.4 55 4 US-10-424-599-204420 Sequence 204420,
986 29 67.4 56 4 US-10-424-599-167657 Sequence 167657,
987 29 67.4 58 4 US-10-424-599-156822 Sequence 156822,
988 29 67.4 58 4 US-10-425-115-238079 Sequence 238079,
989 29 67.4 61 4 US-10-724-972A-7263 Sequence 7263, Ap
990 29 67.4 61 4 US-10-425-115-271325 Sequence 271325,
991 29 67.4 63 3 US-09-833-245-1051 Sequence 1051, Ap
992 29 67.4 63 3 US-09-833-245-1052 Sequence 1052, Ap
993 29 67.4 63 4 US-10-424-599-250886 Sequence 250886,
994 29 67.4 64 4 US-10-767-701-51145 Sequence 51145, A
995 29 67.4 66 4 US-10-029-386-29198 Sequence 29198, A
996 29 67.4 66 4 US-10-424-599-196187 Sequence 196187,
997 29 67.4 67 3 US-09-764-877-1647 Sequence 1647, Ap
998 29 67.4 67 4 US-10-242-515-1647 Sequence 1647, Ap
999 29 67.4 67 4 US-10-437-963-186297 Sequence 186297,
1000 29 67.4 69 4 US-10-425-115-271355 Sequence 271355,

ALIGNMENTS

RESULT 1
US-10-751-845-146
; Sequence 146, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
; APPLICANT: Hedley, Mary Lynne
; APPLICANT: Urban, Robert G.
; APPLICANT: Chicz, Roman M.
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES
; FILE REFERENCE: 08191-013001
; CURRENT APPLICATION NUMBER: US/10/751,845
; CURRENT FILING DATE: 2004-01-05
; PRIOR APPLICATION NUMBER: US/09/664,225
; PRIOR FILING DATE: 2000-08-18
; PRIOR APPLICATION NUMBER: US 60/169,846
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: US 60/154,665
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 163
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 146
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Human Papilloma virus
US-10-751-845-146
Query Match 100.0%; Score 43; DB 5; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.16; Mismatches 0; Indels 0; Gaps 0;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 LFLNTLSFV 9
Db 2 LFLNTLSFV 10
RESULT 2
US-10-432-465-103
; Sequence 103, Application US/10432465
; Publication No. US20040091479A1
; GENERAL INFORMATION:
; APPLICANT: Nieland, John
; APPLICANT: Kaufmann, Andreas
; APPLICANT: Kacher, Angela
; APPLICANT: Schinz, Manuela

; TITLE OF INVENTION: T-Cell Epitopes of the Papillomavirus L1
; TITLE OF INVENTION: Protein and E7 Protein and Their Use in Diagnosis and
; FILE REFERENCE: 50125/077001
; CURRENT APPLICATION NUMBER: US/10/432,465
; CURRENT FILING DATE: 2003-12-10
; PRIOR APPLICATION NUMBER: PCT/EP01/14037
; PRIOR FILING DATE: 2001-11-30
; PRIOR APPLICATION NUMBER: DE 10059631.2
; PRIOR FILING DATE: 2000-12-01
; NUMBER OF SEQ ID NOS: 116
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 103
; LENGTH: 17
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-432-465-103
Query Match 100.0%; Score 43; DB 4; Length 17;
Best Local Similarity 100.0%; Pred. No. 0.27; Mismatches 0; Indels 0; Gaps 0;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 LFLNTLSFV 9
Db 1 LFLNTLSFV 9

RESULT 3
US-10-433-091-72
; Sequence 72, Application US/10433091
; Publication No. US20040101533A1
; GENERAL INFORMATION:
; APPLICANT: MILLER, RAINER
; APPLICANT: NIELAND, JOHN
; APPLICANT: GABELSBERGER, JOSEF
; APPLICANT: HERBST, RUTH
; TITLE OF INVENTION: MEDICAMENT FOR PREVENTING OR TREATING TUMORS CAUSED BY
; FILE REFERENCE: 037067/0115
; CURRENT APPLICATION NUMBER: US/10/433,091
; CURRENT FILING DATE: 2003-11-25
; PRIOR APPLICATION NUMBER: PCT/EP01/14038
; PRIOR FILING DATE: 2001-11-30
; PRIOR APPLICATION NUMBER: DE 100 59 630.4
; PRIOR FILING DATE: 2000-12-01
; NUMBER OF SEQ ID NOS: 72
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 72
; LENGTH: 17
; TYPE: PRT
; ORGANISM: Human papillomavirus type 18
US-10-433-091-72
Query Match 100.0%; Score 43; DB 4; Length 17;
Best Local Similarity 100.0%; Pred. No. 0.27; Mismatches 0; Indels 0; Gaps 0;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 LFLNTLSFV 9
Db 1 LFLNTLSFV 9
RESULT 4
US-10-751-845-156
; Sequence 156, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
; APPLICANT: Hedley, Mary Lynne
; APPLICANT: Urban, Robert G.
; APPLICANT: Chicz, Roman M.
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES
; FILE REFERENCE: 08191-013001
; CURRENT APPLICATION NUMBER: US/10/751,845

CURRENT FILING DATE: 2004-01-05
PRIOR APPLICATION NUMBER: US/09/664,225
PRIOR FILING DATE: 2000-08-18
PRIOR APPLICATION NUMBER: US 60/169,846
PRIOR FILING DATE: 1999-12-09
PRIOR APPLICATION NUMBER: US 60/154,665
PRIOR FILING DATE: 1999-09-16
NUMBER OF SEQ ID NOS: 163
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 156
LENGTH: 17
TYPE: PRT
ORGANISM: Human Papilloma virus
US-10-751-845-156

Query Match 100.0%; Score 43; DB 5; Length 17;
Best Local Similarity 100.0%; Pred. No. 0.27;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 LFLNTLSFV 9
|||||
Db 5 LFLNTLSFV 13

RESULT 5
US-10-432-465-102
Sequence 102, Application US/10432465
Publication No. US20040091479A1
GENERAL INFORMATION:
APPLICANT: Kaufman, John
APPLICANT: Kaufman, Andreas
APPLICANT: Kather, Angela
APPLICANT: Schinz, Manuela
TITLE OF INVENTION: T-Cell Epitopes of the Papillomavirus L1
TITLE OF INVENTION: Protein and E7 Protein and Their Use in Diagnosis and
FILE REFERENCE: 50125/077001
CURRENT APPLICATION NUMBER: US/10/432,465
CURRENT FILING DATE: 2003-12-10
PRIOR APPLICATION NUMBER: PCT/EP01/14037
PRIOR FILING DATE: 2001-11-30
PRIOR APPLICATION NUMBER: DE 10059631.2
PRIOR FILING DATE: 2000-12-01
NUMBER OF SEQ ID NOS: 116
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 102
LENGTH: 20
TYPE: PRT
ORGANISM: Human papillomavirus
US-10-432-465-102

Query Match 100.0%; Score 43; DB 4; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.32;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 LFLNTLSFV 9
|||||
Db 12 LFLNTLSFV 20

RESULT 6
US-10-433-091-71
Sequence 71, Application US/10433091
Publication No. US20040101533A1
GENERAL INFORMATION:
APPLICANT: MULLER, RAINER
APPLICANT: NIELAND, JOHN
APPLICANT: GABELSBERGER, JOSEF
APPLICANT: HERBST, RUTH
TITLE OF INVENTION: MEDICAMENT FOR PREVENTING OR TREATING TUMORS CAUSED BY
FILE REFERENCE: 037067/0115
CURRENT APPLICATION NUMBER: US/10/433,091

CURRENT FILING DATE: 2003-11-25
PRIOR APPLICATION NUMBER: PCT/EP01/14038
PRIOR FILING DATE: 2001-11-30
PRIOR APPLICATION NUMBER: DE 100 59 630.4
PRIOR FILING DATE: 2000-12-01
NUMBER OF SEQ ID NOS: 72
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 71
LENGTH: 20
TYPE: PRT
ORGANISM: Human papillomavirus type 18
US-10-433-091-71

Query Match 100.0%; Score 43; DB 4; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.32;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 LFLNTLSFV 9
|||||
Db 12 LFLNTLSFV 20

RESULT 7
US-10-433-091-4
Sequence 4, Application US/10433091
Publication No. US20040101533A1
GENERAL INFORMATION:
APPLICANT: MULLER, RAINER
APPLICANT: NIELAND, JOHN
APPLICANT: GABELSBERGER, JOSEF
APPLICANT: HERBST, RUTH
TITLE OF INVENTION: MEDICAMENT FOR PREVENTING OR TREATING TUMORS CAUSED BY
FILE REFERENCE: 037067/0115
CURRENT APPLICATION NUMBER: US/10/433,091
CURRENT FILING DATE: 2003-11-25
PRIOR APPLICATION NUMBER: PCT/EP01/14038
PRIOR FILING DATE: 2001-11-30
PRIOR APPLICATION NUMBER: DE 100 59 630.4
PRIOR FILING DATE: 2000-12-01
NUMBER OF SEQ ID NOS: 72
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 4
LENGTH: 105
TYPE: PRT
ORGANISM: Human papillomavirus type 18
US-10-433-091-4

Query Match 100.0%; Score 43; DB 4; Length 105;
Best Local Similarity 100.0%; Pred. No. 1.7;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 LFLNTLSFV 9
|||||
Db 89 LFLNTLSFV 97

RESULT 8
US-10-472-724-8
Sequence 8, Application US/10472724
Publication No. US20040171806A1
GENERAL INFORMATION:
APPLICANT: Cid-Arregui, Angel
APPLICANT: Zur Hausen, Harald
TITLE OF INVENTION: Modified HPV E6 and E7 genes and proteins useful for vaccination
FILE REFERENCE: 4121-154
CURRENT APPLICATION NUMBER: US/10/472,724
CURRENT FILING DATE: 2003-09-17
PRIOR APPLICATION NUMBER: PCT/EP02/03271
PRIOR FILING DATE: 2002-03-22
PRIOR APPLICATION NUMBER: EP 01107271.7
PRIOR FILING DATE: 2001-03-23
NUMBER OF SEQ ID NOS: 27

```
; SOFTWARE: Patentin version 3.2
; SEQ ID NO 8
; LENGTH: 118
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Construct
US-10-472-724-8
```

```
Query Match          100.0%; Score 43; DB 4; Length 118;
Best Local Similarity 100.0%; Pred. No. 1.9;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Oy 1 LFLNTLSFV 9
Db 94 LFLNTLSFV 102
```

```
RESULT 9
US-10-751-845-159
; Sequence 159, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
; APPLICANT: Hedley, Mary Lynne
; APPLICANT: Urban, Robert G.
; APPLICANT: Chicz, Roman M.
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES
; FILE REFERENCE: 08191-013001
; CURRENT APPLICATION NUMBER: US/10/751,845
; CURRENT FILING DATE: 2004-01-05
; PRIOR APPLICATION NUMBER: US/09/664,225
; PRIOR FILING DATE: 2000-08-18
; PRIOR APPLICATION NUMBER: US 60/169,846
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: US 60/154,665
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 163
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 159
; LENGTH: 119
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Artificial fusion sequence
US-10-751-845-159
```

```
Query Match          100.0%; Score 43; DB 5; Length 119;
Best Local Similarity 100.0%; Pred. No. 2;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Oy 1 LFLNTLSFV 9
Db 107 LFLNTLSFV 115
```

```
RESULT 10
US-10-000-903-16
; Sequence 16, Application US/10000903
; Publication No. US20020182221A1
; GENERAL INFORMATION:
; APPLICANT: Bruck, Claudine
; APPLICANT: Cabezon Silva, Teresa
; APPLICANT: Delisse, Anne-Marie Eva Bernande
; APPLICANT: Gerard, Catherine Marie Ghislaine
; APPLICANT: Lombardo-Bencheikh, Angela
; TITLE OF INVENTION: Vaccine
; FILE REFERENCE: B45107
; CURRENT APPLICATION NUMBER: US/10/000,903
; CURRENT FILING DATE: 2001-10-01
; PRIOR APPLICATION NUMBER: PCT/EP98/05285
; PRIOR FILING DATE: 1998-08-17
; PRIOR APPLICATION NUMBER: GB 9717953.5
; PRIOR FILING DATE: 1997-08-22
```

```
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 16
; LENGTH: 227
; TYPE: PRT
; ORGANISM: Homo sapien
US-10-000-903-16
```

```
Query Match          100.0%; Score 43; DB 4; Length 227;
Best Local Similarity 100.0%; Pred. No. 3.8;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Oy 1 LFLNTLSFV 9
Db 202 LFLNTLSFV 210
```

```
RESULT 11
US-10-000-903-19
; Sequence 19, Application US/10000903
; Publication No. US20020182221A1
; GENERAL INFORMATION:
; APPLICANT: Bruck, Claudine
; APPLICANT: Cabezon Silva, Teresa
; APPLICANT: Delisse, Anne-Marie Eva Bernande
; APPLICANT: Gerard, Catherine Marie Ghislaine
; APPLICANT: Lombardo-Bencheikh, Angela
; TITLE OF INVENTION: Vaccine
; FILE REFERENCE: B45107
; CURRENT APPLICATION NUMBER: US/10/000,903
; CURRENT FILING DATE: 2001-10-01
; PRIOR APPLICATION NUMBER: PCT/EP98/05285
; PRIOR FILING DATE: 1998-08-17
; PRIOR APPLICATION NUMBER: GB 9717953.5
; PRIOR FILING DATE: 1997-08-22
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 19
; LENGTH: 227
; TYPE: PRT
; ORGANISM: Homo sapien
US-10-000-903-19
```

```
Query Match          100.0%; Score 43; DB 4; Length 227;
Best Local Similarity 100.0%; Pred. No. 3.8;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Oy 1 LFLNTLSFV 9
Db 202 LFLNTLSFV 210
```

```
RESULT 12
US-10-899-771-16
; Sequence 16, Application US/10899771
; Publication No. US20050031638A1
; GENERAL INFORMATION:
; APPLICANT: Dalemans, Wilfried L.J.
; APPLICANT: Gerard, Catherine Marie Ghislaine
; TITLE OF INVENTION: Compositions Comprising Human Papilloma Virus Proteins
; TITLE OF INVENTION: Compositions Comprising Human Papilloma Virus Proteins
; FILE REFERENCE: B45124
; CURRENT APPLICATION NUMBER: US/10/899,771
; CURRENT FILING DATE: 2004-07-27
; PRIOR APPLICATION NUMBER: US/09/581,976
; PRIOR FILING DATE: 2000-06-20
; PRIOR APPLICATION NUMBER: PCT/EP98/08563
; PRIOR FILING DATE: 1998-12-18
; PRIOR APPLICATION NUMBER: GB 9727262.9
; PRIOR FILING DATE: 1997-12-24
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 16
```

LENGTH: 227
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE: CHIMERA: Chimeraic protein (protein D from Haemophilus
OTHER INFORMATION: Influenzae B and E7 from Human Papilloma virus type
OTHER INFORMATION: 18)
US-10-899-771-16

Query Match 100.0%; Score 43; DB 5; Length 227;
Best Local Similarity 100.0%; Pred. No. 3.8;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 LFLNTLSFV 9
DB 202 LFLNTLSFV 210

RESULT 13
US-10-899-771-19
Sequence 19, Application US/10899771
Publication No. US20050031658A1
GENERAL INFORMATION:
APPLICANT: Dalemans, Wilfried L.J.
APPLICANT: Gerard, Catherine Marie Ghislaine
TITLE OF INVENTION: Compositions Comprising Human Papilloma Virus Proteins
TITLE OF INVENTION: and Fusion Proteins Adjuncted with a Cpg Oligonucleotide
FILE REFERENCE: B45124
CURRENT APPLICATION NUMBER: US/10/899,771
CURRENT FILING DATE: 2004-07-27
PRIOR APPLICATION NUMBER: US/09/581,976
PRIOR FILING DATE: 2000-06-20
PRIOR APPLICATION NUMBER: PCT/EP98/08563
PRIOR FILING DATE: 1998-12-18
PRIOR APPLICATION NUMBER: GB 9727262.9
PRIOR FILING DATE: 1997-12-24
NUMBER OF SEQ ID NOS: 28
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 19
LENGTH: 227
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Chimeraic protein (protein D from Haemophilus
OTHER INFORMATION: Influenzae B and mutated E7 from Human Papilloma
OTHER INFORMATION: virus type 18)
US-10-899-771-19

Query Match 100.0%; Score 43; DB 5; Length 227;

Best Local Similarity 100.0%; Pred. No. 3.8;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 LFLNTLSFV 9
DB 202 LFLNTLSFV 210

RESULT 14
US-10-751-845-157
Sequence 157, Application US/10751845
Publication No. US20050100928A1
GENERAL INFORMATION:
APPLICANT: Hedley, Mary Lynne
APPLICANT: Urban, Robert G.
APPLICANT: Chicz, Roman M.
TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES
FILE REFERENCE: 08191-013001
CURRENT APPLICATION NUMBER: US/10/751,845
CURRENT FILING DATE: 2004-01-05
PRIOR APPLICATION NUMBER: US/09/664,225
PRIOR FILING DATE: 2000-08-18
PRIOR APPLICATION NUMBER: US 60/169,846
PRIOR FILING DATE: 1999-12-09

PRIOR APPLICATION NUMBER: US 60/154,665
PRIOR FILING DATE: 1999-09-16
NUMBER OF SEQ ID NOS: 163
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 157
LENGTH: 236
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Artificial fusion sequence
US-10-751-845-157

Query Match 100.0%; Score 43; DB 5; Length 236;
Best Local Similarity 100.0%; Pred. No. 3.9;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 LFLNTLSFV 9
DB 224 LFLNTLSFV 232

RESULT 15
US-10-751-845-158
Sequence 158, Application US/10751845
Publication No. US20050100928A1
GENERAL INFORMATION:
APPLICANT: Hedley, Mary Lynne
APPLICANT: Urban, Robert G.
APPLICANT: Chicz, Roman M.
TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES
FILE REFERENCE: 08191-013001
CURRENT APPLICATION NUMBER: US/10/751,845
CURRENT FILING DATE: 2004-01-05
PRIOR APPLICATION NUMBER: US/09/664,225
PRIOR FILING DATE: 2000-08-18
PRIOR APPLICATION NUMBER: US 60/169,846
PRIOR FILING DATE: 1999-12-09
PRIOR APPLICATION NUMBER: US 60/154,665
PRIOR FILING DATE: 1999-09-16
NUMBER OF SEQ ID NOS: 163
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 158
LENGTH: 237
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Artificial fusion sequence
US-10-751-845-158

Query Match 100.0%; Score 43; DB 5; Length 237;
Best Local Similarity 100.0%; Pred. No. 3.9;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 LFLNTLSFV 9
DB 225 LFLNTLSFV 233

RESULT 16
US-10-751-845-160
Sequence 160, Application US/10751845
Publication No. US20050100928A1
GENERAL INFORMATION:
APPLICANT: Hedley, Mary Lynne
APPLICANT: Urban, Robert G.
APPLICANT: Chicz, Roman M.
TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES
FILE REFERENCE: 08191-013001
CURRENT APPLICATION NUMBER: US/10/751,845
CURRENT FILING DATE: 2004-01-05
PRIOR APPLICATION NUMBER: US/09/664,225
PRIOR FILING DATE: 2000-08-18
PRIOR APPLICATION NUMBER: US 60/169,846

PRIOR FILING DATE: 1999-12-09
PRIOR APPLICATION NUMBER: US 60/154,665
PRIOR FILING DATE: 1999-09-16
NUMBER OF SEQ ID NOS: 163
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 160
LENGTH: 261
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Artificial fusion sequence
US-10-751-845-160

Query Match 100.0%; Score 43; DB 5; Length 261;
Best Local Similarity 100.0%; Pred. No. 4.3;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 LFLNTLSFV 9
Db 249 LFLNTLSFV 257

RESULT 17
US-10-000-903-23
Sequence 23, Application US/10000903
Publication No. US20020182221A1
GENERAL INFORMATION:
APPLICANT: Bruck, Claudine
APPLICANT: Cabezon Silva, Teresa
APPLICANT: Delisse, Anne-Marie Eva Fernande
APPLICANT: Gerard, Catherine Marie Ghislaine
APPLICANT: Lombardo-Bencheikh, Angela
TITLE OF INVENTION: Vaccine
FILE REFERENCE: B45107
CURRENT APPLICATION NUMBER: US/10/000,903
CURRENT FILING DATE: 2001-10-01
PRIOR APPLICATION NUMBER: PCT/EP98/05285
PRIOR FILING DATE: 1998-08-17
PRIOR APPLICATION NUMBER: GB 9717953.5
PRIOR FILING DATE: 1997-08-22
NUMBER OF SEQ ID NOS: 23
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 23
LENGTH: 383
TYPE: PRT
ORGANISM: Homo sapien
US-10-000-903-23

Query Match 100.0%; Score 43; DB 4; Length 383;
Best Local Similarity 100.0%; Pred. No. 6.4;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 LFLNTLSFV 9
Db 358 LFLNTLSFV 366

RESULT 18
US-10-899-771-23
Sequence 23, Application US/10899771
Publication No. US20050031638A1
GENERAL INFORMATION:
APPLICANT: Dalemans, Wilfried L.J.
APPLICANT: Gerard, Catherine Marie Ghislaine
TITLE OF INVENTION: Compositions Comprising Human Papilloma Virus Proteins
FILE REFERENCE: B45124
CURRENT APPLICATION NUMBER: US/10/899,771
CURRENT FILING DATE: 2004-07-27
PRIOR APPLICATION NUMBER: US/09/581,976
PRIOR FILING DATE: 2000-06-20
PRIOR APPLICATION NUMBER: PCT/EP98/08563
PRIOR FILING DATE: 1998-12-18

PRIOR APPLICATION NUMBER: GB 9727262.9
PRIOR FILING DATE: 1997-12-24
NUMBER OF SEQ ID NOS: 28
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 23
LENGTH: 383
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Chimeric protein (protein D from Haemophilus
OTHER INFORMATION: Influenza B and B6E7 fusion from Human papilloma
OTHER INFORMATION: virus type 18)
US-10-899-771-23

Query Match 100.0%; Score 43; DB 5; Length 383;
Best Local Similarity 100.0%; Pred. No. 6.4;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 LFLNTLSFV 9
Db 358 LFLNTLSFV 366

RESULT 19
US-10-751-845-123
Sequence 123, Application US/10751845
Publication No. US20050100928A1
GENERAL INFORMATION:
APPLICANT: Hedley, Mary Lynne
APPLICANT: Urban, Robert G.
APPLICANT: Chicz, Roman M.
TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES
FILE REFERENCE: 08191-013001
CURRENT APPLICATION NUMBER: US/10/751,845
CURRENT FILING DATE: 2004-01-05
PRIOR APPLICATION NUMBER: US/09/664,225
PRIOR FILING DATE: 2000-08-18
PRIOR APPLICATION NUMBER: US 60/169,846
PRIOR FILING DATE: 1999-12-09
PRIOR APPLICATION NUMBER: US 60/154,665
PRIOR FILING DATE: 1999-09-16
NUMBER OF SEQ ID NOS: 163
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 123
LENGTH: 9
TYPE: PRT
ORGANISM: Human Papilloma virus
US-10-751-845-123

Query Match 90.7%; Score 39; DB 5; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.7e+06;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 LFLNTLSF 8
Db 2 LFLNTLSF 9

RESULT 20
US-10-800-023-28
Sequence 28, Application US/10800023
Publication No. US20040258688A1
GENERAL INFORMATION:
APPLICANT: Steinman, Ralph
APPLICANT: Nussenzweig, Michel
APPLICANT: Hawiger, Daniel
APPLICANT: Bonifaz, Laura
TITLE OF INVENTION: Enhanced Antigen Delivery and Modulation
TITLE OF INVENTION: of the Immune Response Therefrom
FILE REFERENCE: 600-1-081CONCIP1
CURRENT APPLICATION NUMBER: US/10/800,023
CURRENT FILING DATE: 2004-03-14
PRIOR APPLICATION NUMBER: 09/925,284

PRIOR FILING DATE: 2001-08-09
 PRIOR APPLICATION NUMBER: 09/586,704
 PRIOR FILING DATE: 2000-06-05
 PRIOR APPLICATION NUMBER: PCT/US96/01383
 PRIOR FILING DATE: 1996-01-31
 PRIOR APPLICATION NUMBER: 08/381,528
 PRIOR FILING DATE: 1995-01-31
 NUMBER OF SEQ ID NOS: 37
 SOFTWARE: FastSeq for Windows Version 4.0
 SEQ ID NO: 28
 LENGTH: 105
 TYPE: PRT
 ORGANISM: human papilloma virus E7 protein
 US-10-800-023-28

Query Match 86.0%; Score 37; DB 5; Length 105;
 Best Local Similarity 88.9%; Pred. No. 24;
 Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 LPLNTLSFV 9
 |||||
 Db 89 LPLKTLFV 97

RESULT 21
 US-10-447-161-145
 Sequence 145, Application US/10447161
 Publication No. US20040023314A1
 GENERAL INFORMATION:
 APPLICANT: Wang, Rong-fu
 TITLE OF INVENTION: Mutant Fibronectin and Tumor Metastasis
 FILE REFERENCE: HO-P02484US1
 CURRENT APPLICATION NUMBER: US/10/447,161
 CURRENT FILING DATE: 2003-05-28
 PRIOR APPLICATION NUMBER: 60/383,530
 PRIOR FILING DATE: 2002-05-28
 NUMBER OF SEQ ID NOS: 148
 SOFTWARE: Patentin version 3.1
 SEQ ID NO: 145
 LENGTH: 13
 TYPE: PRT
 ORGANISM: Artificial Sequence
 FEATURE:
 OTHER INFORMATION: Synthetic Peptide
 US-10-447-161-145

Query Match 83.7%; Score 36; DB 4; Length 13;
 Best Local Similarity 77.8%; Pred. No. 4.3;
 Matches 7; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 1 LPLNTLSFV 9
 |||||
 Db 1 LPMDTLSFV 9

RESULT 22
 US-11-097-143-17562
 Sequence 17562, Application US/11097143
 Publication No. US20050208558A1
 GENERAL INFORMATION:
 APPLICANT: Venter, J. Craigs
 APPLICANT: et al.
 TITLE OF INVENTION: DETECTION KIT, SUCH AS NUCLEIC ACID
 TITLE OF INVENTION: ARRAYS, FOR DETECTING EXPRESSION OF 10,000 OR MORE
 TITLE OF INVENTION: DROSOPHILA GENES.
 FILE REFERENCE: CL000728
 CURRENT APPLICATION NUMBER: US/11/097,143
 CURRENT FILING DATE: 2005-04-04
 PRIOR APPLICATION NUMBER: 60/157,832
 PRIOR FILING DATE: 1999-10-05
 PRIOR APPLICATION NUMBER: 60/160,191
 PRIOR FILING DATE: 1999-10-19
 PRIOR APPLICATION NUMBER: 60/161,932

PRIOR FILING DATE: 1999-10-28
 PRIOR APPLICATION NUMBER: 60/164,769
 PRIOR FILING DATE: 1998-11-12
 PRIOR APPLICATION NUMBER: 60/173,383
 PRIOR FILING DATE: 1999-12-28
 PRIOR APPLICATION NUMBER: 60/175,693
 PRIOR FILING DATE: 2000-01-12
 PRIOR APPLICATION NUMBER: 60/184,831
 PRIOR FILING DATE: 2000-02-24
 PRIOR APPLICATION NUMBER: 60/191,637
 PRIOR FILING DATE: 2000-03-23
 NUMBER OF SEQ ID NOS: 43008
 SOFTWARE: FastSeq for Windows Version 4.0
 SEQ ID NO: 17562
 LENGTH: 355
 TYPE: PRT
 ORGANISM: DROSOPHILA
 US-11-097-143-17562

Query Match 83.7%; Score 36; DB 6; Length 355;
 Best Local Similarity 87.5%; Pred. No. 1.3e+02;
 Matches 7; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 LPLNTLSF 8
 |||||
 Db 110 LPLNTLAF 117

RESULT 23
 US-09-919-497-71
 Sequence 71, Application US/09919497
 Patent No. US2002010662A1
 GENERAL INFORMATION:
 APPLICANT: Mutter, George L.
 TITLE OF INVENTION: PROGNOSTIC CLASSIFICATION OF ENDOMETRIAL CANCER
 FILE REFERENCE: B0801/7225
 CURRENT APPLICATION NUMBER: US/09/919,497
 CURRENT FILING DATE: 2001-07-31
 PRIOR APPLICATION NUMBER: US 60/221,735
 PRIOR FILING DATE: 2000-07-31
 NUMBER OF SEQ ID NOS: 100
 SOFTWARE: Patentin version 3.0
 SEQ ID NO: 71
 LENGTH: 292
 TYPE: PRT
 ORGANISM: Homo sapiens
 US-09-919-497-71

Query Match 81.4%; Score 35; DB 3; Length 292;
 Best Local Similarity 77.8%; Pred. No. 1.6e+02;
 Matches 7; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 LPLNTLSFV 9
 |||||
 Db 280 LPLNTLSFI 288

RESULT 24
 US-10-437-963-182385
 Sequence 182385, Application US/10437963
 Publication No. US20040123343A1
 GENERAL INFORMATION:
 APPLICANT: La Rosa, Thomas J.
 APPLICANT: Kovalic, David K.
 APPLICANT: Zhou, Yihua
 APPLICANT: Cao, Yongwei
 APPLICANT: Wu, Wei
 APPLICANT: Boukharov, Andrey A.
 APPLICANT: Barbazuk, Brad
 APPLICANT: Li, Ping
 TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
 TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
 FILE REFERENCE: 38-21(53221)B

;; CURRENT APPLICATION NUMBER: US/10/437,963
;; CURRENT FILING DATE: 2003-05-14
;; NUMBER OF SEQ ID NOS: 204966
;; SEQ ID NO 182385
;; LENGTH: 65
;; TYPE: PRT
;; ORGANISM: Oryza sativa
;; FEATURE:
;; OTHER INFORMATION: Clone ID: PAT_MRT4530_7957C.1.pep
US-10-437-963-182385

Query Match 79.1%; Score 34; DB 4; Length 65;
Best Local Similarity 75.0%; Pred. No. 54;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 2 PLNTLSFV 9
Db 35 PFNTLSFI 42

RESULT 25
US-10-424-599-148582
; Sequence 148582, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J
; APPLICANT: Zhou Yihua
; APPLICANT: Kovalic, David K
; APPLICANT: Cao Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated with
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 148582
; LENGTH: 111
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_105191C.1.pep
US-10-424-599-148582

Query Match 79.1%; Score 34; DB 4; Length 111;
Best Local Similarity 66.7%; Pred. No. 92;
Matches 6; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

Qy 1 LFLNTLSFV 9
Db 65 LFLHTLAFI 93

RESULT 26
US-10-437-963-124028
; Sequence 124028, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; APPLICANT: Wu, Wei
; APPLICANT: Boukharov, Andrey A.
; APPLICANT: Bardazuk, Brad
; APPLICANT: Li, Ping
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated with
; FILE REFERENCE: 38-21(53221)B
; CURRENT APPLICATION NUMBER: US/10/437,963
; CURRENT FILING DATE: 2003-05-14
; NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 124028
; LENGTH: 183

;; TYPE: PRT
;; ORGANISM: Oryza sativa
;; FEATURE:
;; OTHER INFORMATION: Clone ID: PAT_MRT4530_26807C.1.pep
US-10-437-963-124028

Query Match 79.1%; Score 34; DB 4; Length 183;
Best Local Similarity 66.7%; Pred. No. 1.5e+02;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 1 LFLNTLSFV 9
Db 1 MFINTASFI 9

RESULT 27
US-10-774-355A-2092
; Sequence 2092, Application US/10774355A
; Publication No. US20050043513A1
; GENERAL INFORMATION:
; APPLICANT: Firestein, Stuart
; APPLICANT: Zhang, Ximin
; TITLE OF INVENTION: MOUSE OLFACTORY RECEPTOR GENE SUPERFAMILY
; FILE REFERENCE: A34570-PCT-USA-A 070050.2520
; CURRENT APPLICATION NUMBER: US/10/774,355A
; CURRENT FILING DATE: 2004-02-06
; PRIOR APPLICATION NUMBER: PCT/US02/25556
; PRIOR FILING DATE: 2002-08-09
; PRIOR APPLICATION NUMBER: 60/311,159
; PRIOR FILING DATE: 2001-08-09
; PRIOR APPLICATION NUMBER: 60/339,694
; PRIOR FILING DATE: 2001-12-12
; NUMBER OF SEQ ID NOS: 2596
; SOFTWARE: fastseq for Windows Version 4.0
; SEQ ID NO 2092
; LENGTH: 300
; TYPE: PRT
; ORGANISM: Mus musculus
US-10-774-355A-2092

Query Match 79.1%; Score 34; DB 5; Length 300;
Best Local Similarity 87.5%; Pred. No. 2.5e+02;
Matches 7; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 LFLNTLSF 8
Db 60 LFLSTLSF 67

RESULT 28
US-10-424-599-162043
; Sequence 162043, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J
; APPLICANT: Kovalic, David K
; APPLICANT: Zhou Yihua
; APPLICANT: Cao Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated with
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 162043
; LENGTH: 53
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_117342C.1.pep
US-10-424-599-162043

Query Match 76.7%; Score 33; DB 4; Length 53;

Best Local Similarity 66.7%; Pred. No. 67;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 LFLNTLSFV 9
| | | | |
| | | | |
DB 21 LFLNTLSFV 29

RESULT 29
US-10-424-599-220841

; Sequence 220841, Application US/10424599

; Publication No. US20040031072A1

; GENERAL INFORMATION:

; APPLICANT: La Rosa Thomas J

; APPLICANT: Kovacic David K

; APPLICANT: Zhou Yihua

; APPLICANT: Cao Yongwei

; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated with

; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement

; FILE REFERENCE: 38-21(53223)B

; CURRENT APPLICATION NUMBER: US/10/424,599

; CURRENT FILING DATE: 2003-04-28

; NUMBER OF SEQ ID NOS: 285684

; SEQ ID NO 220841

; LENGTH: 59

; TYPE: PRT

; ORGANISM: Glycine max

; FEATURE:

; NAME/KEY: unsure

; LOCATION: (1)..(59)

; OTHER INFORMATION: unsure at all Xaa locations

; FEATURE:

; OTHER INFORMATION: Clone ID: PAT_MRT3847_414C.1.pep

; US-10-424-599-220841

Query Match 76.7%; Score 33; DB 4; Length 59;
Best Local Similarity 75.0%; Pred. No. 75;
Matches 6; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 2 FLNTLSFV 9
| | | | |
| | | | |
DB 33 FLNTLSFV 40

RESULT 30
US-10-282-122A-54564
; Sequence 54564, Application US/10282122A
; Publication No. US20040029129A1
; GENERAL INFORMATION:
; APPLICANT: Wang, Liangsu
; APPLICANT: Zamudio, Carlos
; APPLICANT: Malone, Cheryl
; APPLICANT: Haselbeck, Robert
; APPLICANT: Ohlsen, Karl
; APPLICANT: Zyskind, Judith
; APPLICANT: Wall, Daniel
; APPLICANT: Trawick, John
; APPLICANT: Carr, Grant
; APPLICANT: Yamamoto, Robert
; APPLICANT: Forsyth, R.
; APPLICANT: Xu, H.
; TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
; FILE REFERENCE: EUTPA 034A
; CURRENT APPLICATION NUMBER: US/10/282,122A
; CURRENT FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: 60/191,078
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: 60/206,848
; PRIOR FILING DATE: 2000-05-23
; PRIOR APPLICATION NUMBER: 60/207,727
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: 60/230,335
; PRIOR FILING DATE: 2000-09-06

; PRIOR APPLICATION NUMBER: 60/230,347
; PRIOR FILING DATE: 2000-09-09
; PRIOR APPLICATION NUMBER: 60/242,578
; PRIOR FILING DATE: 2000-10-23
; PRIOR APPLICATION NUMBER: 60/253,625
; PRIOR FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: 60/257,931
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: 60/267,636
; PRIOR FILING DATE: 2001-02-09
; PRIOR APPLICATION NUMBER: 60/269,308
; PRIOR FILING DATE: 2001-02-16
; Remaining Prior Application data removed - See file wrapper or PALM.

; NUMBER OF SEQ ID NOS: 78614
; SOFTWARE: Patent version 3.1
; SEQ ID NO 54564
; LENGTH: 239
; TYPE: PRT
; ORGANISM: Campylobacter jejuni
; US-10-282-122A-54564

Query Match 76.7%; Score 33; DB 4; Length 239;
Best Local Similarity 75.0%; Pred. No. 31e+02;
Matches 6; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 1 FLNTLSF 8
| | | | |
| | | | |
DB 178 FLNTLSF 185

RESULT 31
US-10-151-832-6
; Sequence 6, Application US/10151832
; Publication No. US20030008368A1
; GENERAL INFORMATION:
; APPLICANT: Allen, Stephen M.
; APPLICANT: Falco, Carl S.
; APPLICANT: Tarczyński, Mitchell
; TITLE OF INVENTION: Serine O-Acetyltransferase
; FILE REFERENCE: BB1514
; CURRENT APPLICATION NUMBER: US/10/151,832
; CURRENT FILING DATE: 2002-05-21
; PRIOR APPLICATION NUMBER: 60/292,411
; PRIOR FILING DATE: 2001-05-21
; NUMBER OF SEQ ID NOS: 9
; SOFTWARE: Microsoft Office 97
; SEQ ID NO 6
; LENGTH: 289
; TYPE: PRT
; ORGANISM: Allium cepa
; US-10-151-832-6

Query Match 76.7%; Score 33; DB 4; Length 289;
Best Local Similarity 100.0%; Pred. No. 3.8e+02;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 FLNTLS 7
| | | | |
| | | | |
DB 80 FLNTLS 86

RESULT 32
US-10-986-427-6
; Sequence 6, Application US/10986427
; Publication No. US20050125856A1
; GENERAL INFORMATION:
; APPLICANT: Allen, Stephen M.
; APPLICANT: Falco, Carl S.
; APPLICANT: Tarczyński, Mitchell
; TITLE OF INVENTION: Serine O-Acetyltransferase
; FILE REFERENCE: BB1514
; CURRENT APPLICATION NUMBER: US/10/986,427
; CURRENT FILING DATE: 2004-11-10

;; PRIOR APPLICATION NUMBER: US/10/151,832
;; PRIOR FILING DATE: 2002-05-21
;; PRIOR APPLICATION NUMBER: 60/292,411
;; PRIOR FILING DATE: 2001-05-21
;; NUMBER OF SEQ ID NOS: 9
;; SOFTWARE: Microsoft Office 97
;; SEQ ID NO 6
;; LENGTH: 289
;; TYPE: PRT
;; ORGANISM: Allium cepa
US-10-986-427-6

Query Match 76.7%; Score 33; DB 5; Length 289;
Best Local Similarity 100.0%; Pred. No. 3.8e+02;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 LFLNTLSFV 7
|||:||||
Db 80 LFLNTLS 86

RESULT 33
US-10-774-355A-1941
;; Sequence 1941, Application US/10774355A
;; Publication No. US20050043513A1
;; GENERAL INFORMATION:
;; APPLICANT: Firestein, Stuart
;; APPLICANT: Zhang, Ximin
;; TITLE OF INVENTION: MOUSE OLFACTORY RECEPTOR GENE SUPERFAMILY
;; FILE REFERENCE: A34570-PCF-USA-A 070050.2520
;; CURRENT APPLICATION NUMBER: US/10/774,355A
;; CURRENT FILING DATE: 2004-02-06
;; PRIOR APPLICATION NUMBER: PCT/US02/25556
;; PRIOR FILING DATE: 2002-08-09
;; PRIOR APPLICATION NUMBER: 60/311,159
;; PRIOR FILING DATE: 2001-08-09
;; PRIOR APPLICATION NUMBER: 60/339,694
;; PRIOR FILING DATE: 2001-12-12
;; NUMBER OF SEQ ID NOS: 2596
;; SOFTWARE: FastSeq for Windows Version 4.0
;; SEQ ID NO 1941
;; LENGTH: 310
;; TYPE: PRT
;; ORGANISM: Mus musculus
US-10-774-355A-1941

Query Match 76.7%; Score 33; DB 5; Length 310;
Best Local Similarity 77.8%; Pred. No. 4.1e+02;
Matches 7; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 LFLNTLSFV 9
|||:||||
Db 61 LFLNTLSFV 69

RESULT 34
US-10-300-846-10
;; Sequence 10, Application US/10300846
;; Publication No. US2003020737A1
;; GENERAL INFORMATION:
;; APPLICANT: HAN, YI
;; APPLICANT: ZOZULYA, SERGEY
;; APPLICANT: ECHEVERRI, FERNANDO
;; APPLICANT: WANG, KUN
;; TITLE OF INVENTION: OLFACTORY RECEPTORS FOR ISOVALERIC ACID AND RELATED
;; TITLE OF INVENTION: MALODORANTS AND USE THEREOF IN ASSAYS FOR
;; TITLE OF INVENTION: IDENTIFICATION OF BLOCKERS OF MALODOR
;; FILE REFERENCE: 078003-0291924
;; CURRENT APPLICATION NUMBER: US/10/300,846
;; CURRENT FILING DATE: 2002-11-21
;; PRIOR APPLICATION NUMBER: 60/348,371
;; PRIOR FILING DATE: 2002-01-16
;; PRIOR APPLICATION NUMBER: 09/809,291

;; PRIOR FILING DATE: 2001-03-13
;; PRIOR APPLICATION NUMBER: 60/341,872
;; PRIOR FILING DATE: 2001-12-21
;; NUMBER OF SEQ ID NOS: 86
;; SOFTWARE: PatentIn Ver. 2.1
;; SEQ ID NO 10
;; LENGTH: 318
;; TYPE: PRT
;; ORGANISM: Murine sp.
US-10-300-846-10

Query Match 76.7%; Score 33; DB 4; Length 318;
Best Local Similarity 77.8%; Pred. No. 4.2e+02;
Matches 7; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 LFLNTLSFV 9
|||:||||
Db 62 LFLNTLSFV 70

RESULT 35
US-10-774-355A-1383
;; Sequence 1383, Application US/10774355A
;; Publication No. US20050043513A1
;; GENERAL INFORMATION:
;; APPLICANT: Firestein, Stuart
;; APPLICANT: Zhang, Ximin
;; TITLE OF INVENTION: MOUSE OLFACTORY RECEPTOR GENE SUPERFAMILY
;; FILE REFERENCE: A34570-PCF-USA-A 070050.2520
;; CURRENT APPLICATION NUMBER: US/10/774,355A
;; CURRENT FILING DATE: 2004-02-06
;; PRIOR APPLICATION NUMBER: PCT/US02/25556
;; PRIOR FILING DATE: 2002-08-09
;; PRIOR APPLICATION NUMBER: 60/311,159
;; PRIOR FILING DATE: 2001-08-09
;; PRIOR APPLICATION NUMBER: 60/339,694
;; PRIOR FILING DATE: 2001-12-12
;; NUMBER OF SEQ ID NOS: 2596
;; SOFTWARE: FastSeq for Windows Version 4.0
;; SEQ ID NO 1383
;; LENGTH: 319
;; TYPE: PRT
;; ORGANISM: Mus musculus
US-10-774-355A-1383

Query Match 76.7%; Score 33; DB 5; Length 319;
Best Local Similarity 77.8%; Pred. No. 4.2e+02;
Matches 7; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 LFLNTLSFV 9
|||:||||
Db 62 LFLNTLSFV 70

RESULT 36
US-10-369-493-9735
;; Sequence 9735, Application US/10369493
;; Publication No. US2003023675A1
;; GENERAL INFORMATION:
;; APPLICANT: Cao, Yongwei
;; APPLICANT: Hinkle, Gregory J.
;; APPLICANT: Slater, Steven C.
;; APPLICANT: Goldman, Barry S.
;; APPLICANT: Chen, Xianfeng
;; TITLE OF INVENTION: EXPRESSION OF MICROBIAL PROTEINS IN PLANTS FOR PRODUCTION OF
;; TITLE OF INVENTION: PLANTS WITH IMPROVED PROPERTIES
;; FILE REFERENCE: 38-10152052B
;; CURRENT APPLICATION NUMBER: US/10/369,493
;; CURRENT FILING DATE: 2003-02-28
;; PRIOR APPLICATION NUMBER: US 60/360,039
;; PRIOR FILING DATE: 2002-02-21
;; NUMBER OF SEQ ID NOS: 47374
;; SEQ ID NO 9735

LENGTH: 442
TYPE: PRT
ORGANISM: Desulfotribacterium hafniense
US-10-369-493-9735

Query Match 76.7%; Score 33; DB 4; Length 442;
Best Local Similarity 87.5%; Pred. No. 5.8e+02;
Matches 7; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 LPLNTLSF 8
DB 13 LPLNELSF 20

RESULT 37
US-10-424-599-214588
Sequence 214588, Application US/10424599
Publication No. US20040031072A1
GENERAL INFORMATION:
APPLICANT: La Rosa Thomas J
APPLICANT: Kovalic David K
APPLICANT: Zhou Yihua
APPLICANT: Cao Yongwei
TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
FILE REFERENCE: 38-21(53223)B
CURRENT APPLICATION NUMBER: US/10/424,599
CURRENT FILING DATE: 2003-04-28
NUMBER OF SEQ ID NOS: 285684
SEQ ID NO 214588
LENGTH: 1668
TYPE: PRT
ORGANISM: Glycine max
FEATURE:
OTHER INFORMATION: Clone ID: PAT_MRT3847_357C.1.pep
US-10-424-599-214588

Query Match 76.7%; Score 33; DB 4; Length 1668;
Best Local Similarity 100.0%; Pred. No. 2.3e+03;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 LPLNTLS 7
DB 967 LPLNTLS 973

RESULT 38
US-10-425-115-223059
Sequence 223059, Application US/10425115
Publication No. US20040214272A1
GENERAL INFORMATION:
APPLICANT: La Rosa, Thomas J.
APPLICANT: Kovalic, David K.
APPLICANT: Zhou, Yihua
APPLICANT: Cao, Yongwei
TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
FILE REFERENCE: 38-21(53222)B
CURRENT APPLICATION NUMBER: US/10/425,115
CURRENT FILING DATE: 2003-04-28
NUMBER OF SEQ ID NOS: 369326
SEQ ID NO 223059
LENGTH: 52
TYPE: PRT
ORGANISM: Zea mays
FEATURE:
OTHER INFORMATION: Clone ID: MRT4577_135018C.1.pep
US-10-425-115-223059

Query Match 74.4%; Score 32; DB 4; Length 52;
Best Local Similarity 75.0%; Pred. No. 1e+02;
Matches 6; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 1 LPLNTLSF 8
DB 17 LPLNELSF 24

RESULT 39
US-10-424-599-153643
Sequence 153643, Application US/10424599
Publication No. US20040031072A1
GENERAL INFORMATION:
APPLICANT: La Rosa Thomas J
APPLICANT: Kovalic David K
APPLICANT: Zhou Yihua
APPLICANT: Cao Yongwei
TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
FILE REFERENCE: 38-21(53223)B
CURRENT APPLICATION NUMBER: US/10/424,599
CURRENT FILING DATE: 2003-04-28
NUMBER OF SEQ ID NOS: 285684
SEQ ID NO 153643
LENGTH: 64
TYPE: PRT
ORGANISM: Glycine max
FEATURE:
OTHER INFORMATION: Clone ID: PAT_MRT3847_109763C.1.pep
US-10-424-599-153643

Query Match 74.4%; Score 32; DB 4; Length 64;
Best Local Similarity 62.5%; Pred. No. 1.3e+02;
Matches 5; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY 2 PLNTLSFV 9
DB 39 PLNTSISFI 46

RESULT 40
US-10-424-599-190864
Sequence 190864, Application US/10424599
Publication No. US20040031072A1
GENERAL INFORMATION:
APPLICANT: La Rosa Thomas J
APPLICANT: Kovalic David K
APPLICANT: Zhou Yihua
APPLICANT: Cao Yongwei
TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
FILE REFERENCE: 38-21(53223)B
CURRENT APPLICATION NUMBER: US/10/424,599
CURRENT FILING DATE: 2003-04-28
NUMBER OF SEQ ID NOS: 285684
SEQ ID NO 190864
LENGTH: 103
TYPE: PRT
ORGANISM: Glycine max
FEATURE:
OTHER INFORMATION: Clone ID: PAT_MRT3847_1436C.1.pep
US-10-424-599-190864

Query Match 74.4%; Score 32; DB 4; Length 103;
Best Local Similarity 75.0%; Pred. No. 2.1e+02;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 LPLNTLSF 8
DB 11 LPLNTLAF 18

RESULT 41
US-10-767-701-39531
Sequence 39531, Application US/10767701
Publication No. US20040172684A1

GENERAL INFORMATION:
APPLICANT: Kovalic, David K.
APPLICANT: Zhou, Yihua
APPLICANT: Cao, Yongwei
TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
TITLE OF INVENTION: Plants and Uses Thereof For Plant Improvement
FILE REFERENCE: 38-21(53535)B
CURRENT APPLICATION NUMBER: US/10/767,701
CURRENT FILING DATE: 2004-01-29
NUMBER OF SEQ ID NOS: 63128
SEQ ID NO 39531
LENGTH: 157
TYPE: PRT
ORGANISM: Sorghum bicolor
FEATURE:
OTHER INFORMATION: Clone ID: SORBI-28MAY03-C23850_1.pep
US-10-767-701-39531

Query Match 74.4%; Score 32; DB 4; Length 157;
Best Local Similarity 66.7%; Pred. No. 3.2e+02;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 1 LFLNTLSFV 9
Db 127 LFLNTLAVI 135

RESULT 42
US-10-424-599-221962
Sequence 221962, Application US/10424599
Publication No. US20040031072A1
GENERAL INFORMATION:
APPLICANT: La Rosa, Thomas J
APPLICANT: Kovalic, David K
APPLICANT: Zhou Yihua
APPLICANT: Cao Yongwei
TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
FILE REFERENCE: 38-21(53223)B
CURRENT APPLICATION NUMBER: US/10/424,599
CURRENT FILING DATE: 2003-04-28
NUMBER OF SEQ ID NOS: 285684
SEQ ID NO 221962
LENGTH: 209
TYPE: PRT
ORGANISM: Glycine max
FEATURE:
OTHER INFORMATION: Clone ID: PAT_MRT3847_42461C.1.pep
US-10-424-599-221962

Query Match 74.4%; Score 32; DB 4; Length 209;
Best Local Similarity 75.0%; Pred. No. 4.2e+02;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 2 FLNTLSFV 9
Db 83 FLNTLGF 90

RESULT 43
US-10-437-963-124750
Sequence 124750, Application US/10437963
Publication No. US20040123343A1
GENERAL INFORMATION:
APPLICANT: La Rosa, Thomas J.
APPLICANT: Kovalic, David K.
APPLICANT: Zhou, Yihua
APPLICANT: Cao, Yongwei
APPLICANT: Wu, Wei
APPLICANT: Boukharov, Andrey A.
APPLICANT: Barbazuk, Brad
APPLICANT: Li, Ping
TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With

TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
FILE REFERENCE: 38-21(53221)B
CURRENT APPLICATION NUMBER: US/10/437,963
CURRENT FILING DATE: 2003-05-14
NUMBER OF SEQ ID NOS: 204966
SEQ ID NO 124750
LENGTH: 223
TYPE: PRT
ORGANISM: Oryza sativa
FEATURE:
OTHER INFORMATION: Clone ID: PAT_MRT4530_27459C.1.pep
US-10-437-963-124750

Query Match 74.4%; Score 32; DB 4; Length 223;
Best Local Similarity 75.0%; Pred. No. 4.5e+02;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 LFLNTLSF 8
Db 173 FLNTLASF 180

RESULT 44
US-09-746-284-2
Sequence 2, Application US/09746284
Patent No. US20020132289A1
GENERAL INFORMATION:
APPLICANT: CLEMENT, JEAN-LUC
APPLICANT: RENUCCI, MARIELE
APPLICANT: MATRAZZO, VALERY
APPLICANT: TIRARD, ALAIN
APPLICANT: BELAICH, ANNE
TITLE OF INVENTION: NEW OLFACTORY RECEPTORS AND THEIR UTILIZATIONS
FILE REFERENCE: 1558-00
CURRENT APPLICATION NUMBER: US/09/746,284
CURRENT FILING DATE: 2000-12-22
PRIOR APPLICATION NUMBER: PCT/FR99/01495
PRIOR FILING DATE: 1999-06-22
PRIOR APPLICATION NUMBER: FR 98/08094
PRIOR FILING DATE: 1998-06-25
NUMBER OF SEQ ID NOS: 52
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 2
LENGTH: 237
TYPE: PRT
ORGANISM: Mus montanus
US-09-746-284-2

Query Match 74.4%; Score 32; DB 3; Length 237;
Best Local Similarity 77.8%; Pred. No. 4.8e+02;
Matches 7; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 LFLNTLSFV 9
Db 4 LFLNTLSFV 12

RESULT 45
US-10-774-355A-1977
Sequence 1977, Application US/10774355A
Publication No. US20050043513A1
GENERAL INFORMATION:
APPLICANT: Firestein, Stuart
APPLICANT: Zhang, Ximin
TITLE OF INVENTION: MOUSE OLFACTORY RECEPTOR GENE SUPERFAMILY
FILE REFERENCE: A34570-PCT-USA-A 070050.2520
CURRENT APPLICATION NUMBER: US/10/774,355A
CURRENT FILING DATE: 2004-02-06
PRIOR APPLICATION NUMBER: PCT/US02/25556
PRIOR FILING DATE: 2002-08-09
PRIOR APPLICATION NUMBER: 60/311,159
PRIOR FILING DATE: 2001-08-09
PRIOR APPLICATION NUMBER: 60/339,694

PRIOR FILING DATE: 2001-12-12
NUMBER OF SEQ ID NOS: 2596
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO: 1977
LENGTH: 318
TYPE: PRT
ORGANISM: Mus musculus
US-10-774-355A-1977

Query Match 74.4%; Score 32; DB 5; Length 318;
Best Local Similarity 87.5%; Pred. No. 6.7e+02;
Matches 7; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 2 FLNLSFV 9
DB 67 FLNLSFV 74

RESULT 46
US-09-886-055-301
Sequence 301, Application US/09886055
Patent No. US20020132273A1
GENERAL INFORMATION:
APPLICANT: STRYER, LUBERT
APPLICANT: ZOZULYA, SERGEY
TITLE OF INVENTION: RECEPTOR FINGERPRINTING, SENSORY PERCEPTION, AND
TITLE OF INVENTION: BIOSENSORS OF CHEMICAL SENSANTS
FILE REFERENCE: 078003-0277150
CURRENT APPLICATION NUMBER: US/09/886,055
CURRENT FILING DATE: 2001-06-22
PRIOR APPLICATION NUMBER: 60/213,812
PRIOR FILING DATE: 2000-06-22
NUMBER OF SEQ ID NOS: 522
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 301
LENGTH: 328
TYPE: PRT
ORGANISM: Homo sapiens
US-09-886-055-301

Query Match 74.4%; Score 32; DB 3; Length 328;
Best Local Similarity 87.5%; Pred. No. 6.7e+02;
Matches 7; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 2 FLNLSFV 9
DB 64 FLNLSFV 71

RESULT 47
US-09-804-291-301
Sequence 301, Application US/09804291
Publication No. US2003008059A1
GENERAL INFORMATION:
APPLICANT: ZOZULYA, SERGEY
TITLE OF INVENTION: HUMAN OLFACTORY RECEPTORS AND GENES ENCODING SAME
FILE REFERENCE: P 0278005
CURRENT APPLICATION NUMBER: US/09/804,291
CURRENT FILING DATE: 2001-03-13
PRIOR APPLICATION NUMBER: 60/188,914
PRIOR FILING DATE: 2000-03-13
PRIOR APPLICATION NUMBER: 60/192,033
PRIOR FILING DATE: 2000-03-24
PRIOR APPLICATION NUMBER: 60/199,474
PRIOR FILING DATE: 2000-04-14
PRIOR APPLICATION NUMBER: 60/199,335
PRIOR FILING DATE: 2000-04-24
PRIOR APPLICATION NUMBER: 60/207,702
PRIOR FILING DATE: 2000-05-26
PRIOR APPLICATION NUMBER: 60/213,849
PRIOR FILING DATE: 2000-06-23
PRIOR APPLICATION NUMBER: 60/226,534
PRIOR FILING DATE: 2000-08-16

PRIOR APPLICATION NUMBER: 60/230,732
PRIOR FILING DATE: 2000-09-07
PRIOR APPLICATION NUMBER: 60/266,862
PRIOR FILING DATE: 2001-02-07
NUMBER OF SEQ ID NOS: 529
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 301
LENGTH: 328
TYPE: PRT
ORGANISM: Homo sapiens
US-09-804-291-301

Query Match 74.4%; Score 32; DB 3; Length 328;
Best Local Similarity 87.5%; Pred. No. 6.7e+02;
Matches 7; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 2 FLNLSFV 9
DB 64 FLNLSFV 71

RESULT 48
US-10-024-399-32
Sequence 32, Application US/10024399
Publication No. US20030100491A1
GENERAL INFORMATION:
APPLICANT: Padigaru, Maralidhara
APPLICANT: Kekuda, Ramesh
APPLICANT: Colman, Steven D.
APPLICANT: Spytek, Kimberly A.
APPLICANT: Ballinger, Robert A.
APPLICANT: Verne, Corine A.M.
APPLICANT: Li, Li
APPLICANT: Shenoy, Suresh G.
APPLICANT: Casman, Stacie J.
TITLE OF INVENTION: NOVEL PROTEINS AND NUCLEIC ACIDS ENCODING SAME
FILE REFERENCE: 21402-224AE
CURRENT APPLICATION NUMBER: US/10/024,399
CURRENT FILING DATE: 2001-12-18
PRIOR APPLICATION NUMBER: 60/256,635
PRIOR FILING DATE: 2000-12-18
PRIOR APPLICATION NUMBER: 60/259,743
PRIOR FILING DATE: 2001-01-04
PRIOR APPLICATION NUMBER: 60/299,327
PRIOR FILING DATE: 2001-06-19
PRIOR APPLICATION NUMBER: 60/261,498
PRIOR FILING DATE: 2001-01-12
PRIOR APPLICATION NUMBER: 60/263,689
PRIOR FILING DATE: 2001-01-24
PRIOR APPLICATION NUMBER: 60/267,464
PRIOR FILING DATE: 2001-02-08
PRIOR APPLICATION NUMBER: 60/271,021
PRIOR FILING DATE: 2001-02-22
PRIOR APPLICATION NUMBER: 60/275,946
PRIOR FILING DATE: 2001-03-14
PRIOR APPLICATION NUMBER: 60/278,150
PRIOR FILING DATE: 2001-03-23
PRIOR APPLICATION NUMBER: 60/285,718
PRIOR FILING DATE: 2001-04-23
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 40
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 32
LENGTH: 328
TYPE: PRT
ORGANISM: Homo sapiens
US-10-024-399-32

Query Match 74.4%; Score 32; DB 4; Length 328;
Best Local Similarity 87.5%; Pred. No. 6.7e+02;
Matches 7; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 2 FLNLSFV 9

DB 64 FLNHLSPV 71

RESULT 49

US-10-017-161-286
; Sequence 286, Application US/10017161
; Publication No. US2003014368A1
; GENERAL INFORMATION:
; APPLICANT: SUMA, MAKIKO
; APPLICANT: ASAI, KIYOSHI
; APPLICANT: AKIYAMA, YUTAKA
; APPLICANT: ABURATANI, HIROYUKI
; TITLE OF INVENTION: NOVEL G PROTEIN-COUPLED RECEPTORS
; FILE REFERENCE: 084335/0152
; CURRENT APPLICATION NUMBER: US/10/017,161
; CURRENT FILING DATE: 2002-12-18
; PRIOR APPLICATION NUMBER: JP 2001/246789
; PRIOR FILING DATE: 2001-06-18
; NUMBER OF SEQ ID NOS: 2430
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 286
; LENGTH: 328
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-017-161-286

Query Match 74.4%; Score 32; DB 4; Length 328;

Best Local Similarity 87.5%; Pred. No. 6.7e+02; Mismatches 1; Indels 0; Gaps 0;

Matches 7; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 2 FLNHLSPV 9

DB 64 FLNHLSPV 71

RESULT 50

US-10-387-629-110
; Sequence 110, Application US/10387629
; Publication No. US20030221205A1
; GENERAL INFORMATION:
; APPLICANT: ChemCom S.A.
; APPLICANT: Velthen, Alex
; TITLE OF INVENTION: Olfactory and Pheromones G-Protein coupled Receptors
; FILE REFERENCE: 9409/2192
; CURRENT APPLICATION NUMBER: US/10/387,629
; CURRENT FILING DATE: 2003-03-13
; NUMBER OF SEQ ID NOS: 254
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 110
; LENGTH: 328
; TYPE: PRT
; ORGANISM: Homo Sapiens
US-10-387-629-110

Query Match 74.4%; Score 32; DB 4; Length 328;

Best Local Similarity 87.5%; Pred. No. 6.7e+02; Mismatches 1; Indels 0; Gaps 0;

Matches 7; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 2 FLNHLSPV 9

DB 64 FLNHLSPV 71

Search completed: May 5, 2006, 07:42:45
Job time : 86.2 secs

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OM protein - protein search, using sw model

Run on: May 5, 2006, 07:32:07 ; Search time 18.4 Seconds
(without alignments)
22.639 Million cell updates/sec

Title: US-08-170-344-33
Perfect score: 43
Sequence: 1 PLINTLSPV 9

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 235405 seqs, 46284737 residues
Total number of hits satisfying chosen parameters: 235405

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match: 100%
Listing first 1000 summaries

Database:

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3: /SIDSS/ptodata/1/pubppaa/US07_NEW_PUB.pep1.*
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12: /SIDSS/ptodata/1/pubppaa/US60_NEW_PUB.pep1.*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	43	100.0	15	9	US-10-530-061-1718
2	43	100.0	15	9	US-10-530-061-1719
3	43	100.0	105	9	US-10-530-253-27
4	38	90.7	8	9	US-10-530-061-864
5	38	88.4	15	9	US-10-530-061-1729
6	38	88.4	15	9	US-10-530-061-1730
7	38	88.4	106	9	US-10-530-253-32
8	36	83.7	107	9	US-10-530-253-37
9	34	79.1	8	9	US-10-530-061-865
10	32	74.4	49	9	US-10-467-657-3932
11	32	74.4	440	11	US-11-098-686-10923
12	32	74.4	514	11	US-11-079-463-9784
13	31	72.1	207	11	US-11-205-667-2
14	31	72.1	234	11	US-11-004-399-3166
15	31	72.1	237	11	US-11-098-686-11055
16	31	72.1	302	9	US-10-793-626-2980
17	31	72.1	452	11	US-11-098-686-10937
18	31	72.1	467	9	US-10-511-988-175
19	31	72.1	534	11	US-11-188-298-19555
20	31	72.1	566	9	US-10-491-468-21
21	30	69.8	40	9	US-10-895-064-2278

22	30	69.8	40	11	US-11-129-741-2278	Sequence 2278, Ap
23	30	69.8	114	11	US-11-096-568A-3886	Sequence 3886, Ap
24	30	69.8	114	11	US-11-079-463-6027	Sequence 6027, Ap
25	30	69.8	172	11	US-11-096-568A-3885	Sequence 3885, Ap
26	30	69.8	186	11	US-11-096-568A-3884	Sequence 3884, Ap
27	30	69.8	315	11	US-11-079-463-6795	Sequence 6795, Ap
28	30	69.8	335	9	US-10-194-487-174	Sequence 174, App
29	30	69.8	335	9	US-10-195-883-174	Sequence 174, App
30	30	69.8	335	9	US-10-195-888-174	Sequence 174, App
31	30	69.8	335	9	US-10-195-889-174	Sequence 174, App
32	30	69.8	335	11	US-11-090-729-2	Sequence 2, Appl1
33	30	69.8	351	11	US-11-045-004-1301	Sequence 1301, Ap
34	30	69.8	465	11	US-11-087-099-7140	Sequence 7140, Ap
35	30	69.8	465	11	US-11-188-298-5495	Sequence 5495, Ap
36	30	69.8	515	11	US-11-188-298-1441	Sequence 1441, Ap
37	30	69.8	543	11	US-11-188-298-1538	Sequence 1538, Ap
38	30	69.8	543	11	US-11-188-298-4208	Sequence 4208, Ap
39	30	69.8	543	11	US-11-188-298-19512	Sequence 19512, A
40	30	69.8	559	11	US-11-096-568A-33313	Sequence 33313, A
41	30	69.8	645	11	US-11-188-298-2327	Sequence 2327, A
42	30	69.8	646	11	US-11-079-463-8511	Sequence 8511, Ap
43	30	69.8	659	11	US-11-045-004-2524	Sequence 2524, Ap
44	30	69.8	798	11	US-11-096-568A-31861	Sequence 31861, A
45	30	69.8	816	9	US-10-216-161A-375	Sequence 375, App
46	29	67.4	63	11	US-11-264-096-1051	Sequence 1051, Ap
47	29	67.4	100	11	US-11-264-096-1052	Sequence 1052, Ap
48	29	67.4	110	9	US-11-072-512-2869	Sequence 2869, Ap
49	29	67.4	111	9	US-10-530-253-38	Sequence 38, Appl-
50	29	67.4	111	9	US-10-467-657-4734	Sequence 4734, Ap
51	29	67.4	164	7	US-09-995-493-58	Sequence 58, Appl
52	29	67.4	197	11	US-11-096-568A-31665	Sequence 31665, A
53	29	67.4	242	11	US-11-188-298-4176	Sequence 4176, Ap
54	29	67.4	283	11	US-11-096-568A-31664	Sequence 31664, A
55	29	67.4	324	11	US-11-096-568A-31663	Sequence 31663, A
56	29	67.4	324	9	US-10-511-314-19	Sequence 19, Appl
57	29	67.4	342	11	US-11-188-298-4673	Sequence 4673, Ap
58	29	67.4	372	11	US-11-188-298-7400	Sequence 7400, Ap
59	29	67.4	401	11	US-11-096-568A-21885	Sequence 21885, A
60	29	67.4	401	11	US-11-096-568A-21885	Sequence 21885, A
61	29	67.4	406	11	US-11-079-463-7017	Sequence 7017, Ap
62	29	67.4	410	11	US-11-188-298-21499	Sequence 21499, A
63	29	67.4	419	11	US-11-188-298-13229	Sequence 13229, A
64	29	67.4	420	11	US-11-188-298-4066	Sequence 4066, Ap
65	29	67.4	420	11	US-11-188-298-8750	Sequence 8750, Ap
66	29	67.4	420	11	US-11-188-298-1282	Sequence 1282, A
67	29	67.4	420	11	US-11-188-298-1282	Sequence 1282, A
68	29	67.4	424	11	US-11-096-568A-23124	Sequence 23124, A
69	29	67.4	424	11	US-11-188-298-2128	Sequence 2128, Ap
70	29	67.4	424	11	US-11-188-298-5065	Sequence 5065, Ap
71	29	67.4	425	11	US-11-188-298-15884	Sequence 15884, A
72	29	67.4	426	11	US-11-188-298-16046	Sequence 16046, A
73	29	67.4	426	11	US-11-188-298-16046	Sequence 16046, A
74	29	67.4	444	9	US-10-703-7998-42	Sequence 24743, A
75	29	67.4	449	11	US-11-096-568A-24743	Sequence 24743, A
76	29	67.4	455	11	US-11-188-298-17688	Sequence 17688, A
77	29	67.4	468	11	US-11-096-568A-21883	Sequence 21883, A
78	29	67.4	468	11	US-11-188-298-15882	Sequence 15882, A
79	29	67.4	526	11	US-11-096-568A-23123	Sequence 23123, A
80	29	67.4	526	11	US-11-198-640A-2	Sequence 2, Appl1
81	29	67.4	636	9	US-10-467-657-1856	Sequence 1856, Ap
82	29	67.4	725	9	US-10-505-263-8	Sequence 8, Appl1
83	29	67.4	733	11	US-11-045-004-2016	Sequence 2016, Ap
84	29	67.4	788	9	US-10-505-263-6	Sequence 6, Appl1
85	29	67.4	892	11	US-11-237-600-4	Sequence 160, App
86	29	67.4	1115	9	US-10-055-877-160	Sequence 482, App
87	28	65.1	65	9	US-10-895-064-482	Sequence 482, App
88	28	65.1	65	11	US-11-129-741-482	Sequence 7397, Ap
89	28	65.1	98	11	US-11-087-099-7387	Sequence 8583, Ap
90	28	65.1	105	11	US-11-079-463-8583	Sequence 8583, Ap
91	28	65.1	109	9	US-10-530-253-31	Sequence 25610, A
92	28	65.1	230	11	US-11-096-568A-25610	Sequence 25610, A
93	28	65.1	251	9	US-10-467-657-9088	Sequence 9088, Ap
94	28	65.1	292	11	US-11-188-298-974	Sequence 974, App

95	28	65.1	307	11	US-11-188-298-9704	Sequence 9704, Ap	168	27	62.8	383	9	US-10-793-626-1564	Sequence 1564, Ap
96	28	65.1	307	11	US-11-188-298-16911	Sequence 16911, A	169	27	62.8	405	11	US-11-264-096-1726	Sequence 1726, Ap
97	28	65.1	307	11	US-11-188-298-20978	Sequence 20978, A	170	27	62.8	407	11	US-11-096-568A-1906	Sequence 1906, Ap
98	28	65.1	313	9	US-10-511-538-64	Sequence 64, Appl	171	27	62.8	416	11	US-11-096-568A-1905	Sequence 1905, Ap
99	28	65.1	313	11	US-11-190-186-7	Sequence 7, Appl	172	27	62.8	433	11	US-11-096-568A-1904	Sequence 1904, Ap
100	28	65.1	313	11	US-11-096-568A-25609	Sequence 25609, A	173	27	62.8	433	11	US-11-079-463-9953	Sequence 9953, Ap
101	28	65.1	315	11	US-11-241-956-15	Sequence 15, Appl	174	27	62.8	434	11	US-11-188-298-1705	Sequence 3705, Ap
102	28	65.1	318	11	US-11-179-977-16	Sequence 16, Appl	175	27	62.8	446	11	US-11-188-298-14666	Sequence 14666, A
103	28	65.1	342	11	US-11-098-686-10807	Sequence 10807, A	176	27	62.8	452	9	US-10-878-556A-11229	Sequence 1229, Ap
104	28	65.1	357	11	US-11-072-512-3150	Sequence 3150, Ap	177	27	62.8	459	11	US-11-087-099-3410	Sequence 3410, Ap
105	28	65.1	371	11	US-11-096-568A-9324	Sequence 9324, Ap	178	27	62.8	459	11	US-11-087-099-4535	Sequence 4535, Ap
106	28	65.1	371	11	US-11-096-568A-9325	Sequence 9325, Ap	179	27	62.8	459	11	US-11-188-298-4195	Sequence 4195, Ap
107	28	65.1	371	11	US-11-096-568A-25608	Sequence 25608, A	180	27	62.8	459	11	US-11-188-298-14211	Sequence 14211, A
108	28	65.1	372	11	US-11-096-568A-9322	Sequence 9322, Ap	181	27	62.8	471	11	US-11-098-686-11229	Sequence 11229, A
109	28	65.1	373	11	US-11-096-568A-9322	Sequence 9322, Ap	182	27	62.8	472	9	US-10-467-657-2268	Sequence 2268, Ap
110	28	65.1	414	11	US-11-089-551A-28	Sequence 28, Appl	183	27	62.8	504	11	US-11-087-099-4907	Sequence 4907, Ap
111	28	65.1	423	11	US-11-096-568A-32432	Sequence 32432, A	184	27	62.8	504	11	US-11-087-099-5030	Sequence 5030, Ap
112	28	65.1	476	11	US-11-069-642-19	Sequence 19, Appl	185	27	62.8	504	11	US-11-087-099-10984	Sequence 10984, A
113	28	65.1	480	11	US-11-096-568A-4281	Sequence 4281, Ap	186	27	62.8	504	11	US-11-087-099-12101	Sequence 12101, A
114	28	65.1	483	11	US-11-096-568A-4280	Sequence 4280, Ap	187	27	62.8	541	11	US-11-000-463-238	Sequence 238, Ap
115	28	65.1	484	11	US-11-223-641-6	Sequence 6, Appl	188	27	62.8	580	11	US-11-188-298-20169	Sequence 20169, A
116	28	65.1	500	11	US-11-072-512-2825	Sequence 2825, Ap	189	27	62.8	614	11	US-11-087-099-9683	Sequence 9683, A
117	28	65.1	509	11	US-11-188-298-4397	Sequence 4397, Ap	190	27	62.8	631	11	US-11-096-568A-29862	Sequence 29862, A
118	28	65.1	533	11	US-11-096-568A-4279	Sequence 4279, Ap	191	27	62.8	657	11	US-11-227-543-15	Sequence 543, Ap
119	28	65.1	533	11	US-11-188-298-12688	Sequence 12688, A	192	27	62.8	659	11	US-11-079-463-6188	Sequence 6188, Ap
120	28	65.1	579	11	US-11-045-004-1177	Sequence 1177, Ap	193	27	62.8	740	11	US-11-079-463-8427	Sequence 8427, Ap
121	28	65.1	661	11	US-11-072-512-2645	Sequence 2645, Ap	194	27	62.8	759	11	US-11-188-298-887	Sequence 887, Ap
122	28	65.1	666	11	US-11-188-298-9051	Sequence 9051, Ap	195	27	62.8	1942	9	US-10-506-454-1403	Sequence 1403, Ap
123	28	65.1	687	9	US-10-055-877-200	Sequence 200, App	196	27	62.8	1966	11	US-11-126-313-32	Sequence 313, Appl
124	28	65.1	690	11	US-11-188-298-4363	Sequence 4363, Ap	197	27	62.8	2138	9	US-10-784-004-639	Sequence 639, Appl
125	28	65.1	691	11	US-11-098-686-10183	Sequence 10183, A	198	27	62.8	2161	11	US-11-126-313-31	Sequence 31, Appl
126	28	65.1	695	11	US-11-152-601-22	Sequence 22, Appl	199	27	62.8	2221	11	US-11-126-313-30	Sequence 30, Appl
127	28	65.1	753	9	US-10-505-263-91	Sequence 91, Appl	200	27	62.8	2710	11	US-11-051-453-41	Sequence 41, Appl
128	28	65.1	2671	8	US-10-505-928-784	Sequence 784, Appl	201	27	62.8	3343	11	US-11-122-396-14	Sequence 7, Appl
129	28	65.1	2671	9	US-10-876-787-6	Sequence 6, Appl	202	27	62.8	6893	11	US-11-205-109-14	Sequence 14, Appl
130	27	62.8	87	11	US-11-079-463-7658	Sequence 7658, Ap	203	27	62.8	8695	11	US-11-175-690-15	Sequence 15, Appl
131	27	62.8	114	9	US-10-475-075-892	Sequence 892, App	204	26	60.5	21	11	US-11-175-690-15	Sequence 32, Appl
132	27	62.8	116	11	US-11-188-298-616	Sequence 616, App	205	26	60.5	29	11	US-11-175-690-33	Sequence 33, Appl
133	27	62.8	149	9	US-10-511-538-172	Sequence 172, App	206	26	60.5	52	9	US-10-467-657-1656	Sequence 1656, Ap
134	27	62.8	163	11	US-11-172-740-2015	Sequence 2015, Ap	207	26	60.5	52	11	US-11-096-568A-14048	Sequence 14048, A
135	27	62.8	168	11	US-11-079-463-10138	Sequence 10138, A	208	26	60.5	66	9	US-10-467-657-6624	Sequence 6624, Ap
136	27	62.8	194	11	US-11-188-298-12124	Sequence 12124, A	209	26	60.5	67	11	US-11-004-399-2273	Sequence 2273, Ap
137	27	62.8	201	11	US-11-087-099-2370	Sequence 2370, Ap	210	26	60.5	74	9	US-10-467-657-3364	Sequence 3364, Ap
138	27	62.8	254	7	US-09-995-493-136	Sequence 136, App	211	26	60.5	101	11	US-11-264-096-154	Sequence 154, App
139	27	62.8	283	9	US-10-506-454-468	Sequence 468, App	212	26	60.5	103	9	US-10-511-538-103	Sequence 103, App
140	27	62.8	292	11	US-11-045-004-2829	Sequence 2829, Ap	213	26	60.5	107	11	US-11-004-399-2767	Sequence 2767, Ap
141	27	62.8	295	11	US-11-204-187-4	Sequence 4, Appl	214	26	60.5	116	9	US-10-467-657-2282	Sequence 2282, Ap
142	27	62.8	295	11	US-11-205-562-4	Sequence 4, Appl	215	26	60.5	123	11	US-11-087-099-3634	Sequence 3634, Ap
143	27	62.8	296	11	US-10-878-556A-190	Sequence 190, Appl	216	26	60.5	124	9	US-10-475-075-887	Sequence 887, App
144	27	62.8	296	11	US-11-204-187-1	Sequence 1, Appl	217	26	60.5	132	11	US-11-096-568A-1401	Sequence 1401, Ap
145	27	62.8	296	11	US-11-204-187-3	Sequence 3, Appl	218	26	60.5	137	9	US-10-472-681B-9	Sequence 9, Appl
146	27	62.8	296	11	US-11-205-562-1	Sequence 1, Appl	219	26	60.5	137	11	US-11-022-562-225	Sequence 225, Appl
147	27	62.8	296	11	US-11-205-562-3	Sequence 3, Appl	220	26	60.5	157	11	US-11-072-512-3893	Sequence 3893, Ap
148	27	62.8	300	11	US-11-052-554A-4	Sequence 4, Appl	221	26	60.5	165	9	US-10-934-944-488	Sequence 288, App
149	27	62.8	300	11	US-11-052-554A-178	Sequence 178, App	222	26	60.5	165	11	US-11-116-881A-297	Sequence 297, App
150	27	62.8	306	9	US-10-793-626-382	Sequence 382, App	223	26	60.5	180	11	US-11-045-004-2266	Sequence 2266, Ap
151	27	62.8	311	9	US-10-511-538-176	Sequence 176, App	224	26	60.5	182	9	US-10-467-657-4	Sequence 4, Appl
152	27	62.8	311	9	US-10-455-772-330	Sequence 330, App	225	26	60.5	182	9	US-10-467-657-3898	Sequence 3898, Ap
153	27	62.8	311	9	US-10-455-772-332	Sequence 332, App	226	26	60.5	207	9	US-10-793-626-1730	Sequence 1730, Ap
154	27	62.8	311	9	US-10-455-772-334	Sequence 334, App	227	26	60.5	214	11	US-11-188-298-13541	Sequence 13541, A
155	27	62.8	314	9	US-10-511-538-153	Sequence 153, App	228	26	60.5	215	11	US-11-079-463-7096	Sequence 7096, Ap
156	27	62.8	314	9	US-10-455-772-378	Sequence 378, App	229	26	60.5	216	11	US-11-087-099-4134	Sequence 4134, Ap
157	27	62.8	314	9	US-10-455-772-380	Sequence 380, App	230	26	60.5	216	11	US-11-086-568A-18899	Sequence 18899, A
158	27	62.8	325	11	US-11-188-298-18310	Sequence 18310, A	231	26	60.5	229	9	US-10-793-626-2018	Sequence 3018, Ap
159	27	62.8	333	11	US-11-188-298-2944	Sequence 2944, Ap	232	26	60.5	229	11	US-11-188-298-2691	Sequence 2691, Ap
160	27	62.8	346	9	US-10-455-772-442	Sequence 442, App	233	26	60.5	239	11	US-10-793-626-1696	Sequence 1696, Ap
161	27	62.8	346	9	US-10-455-772-444	Sequence 444, App	234	26	60.5	243	11	US-11-096-568A-18898	Sequence 18898, A
162	27	62.8	346	11	US-11-157-930-2	Sequence 2, Appl	235	26	60.5	244	9	US-10-506-454-325	Sequence 225, App
163	27	62.8	359	11	US-11-087-099-10538	Sequence 10538, A	236	26	60.5	250	9	US-10-455-772-280	Sequence 280, App
164	27	62.8	362	11	US-11-188-298-550	Sequence 550, App	237	26	60.5	257	9	US-10-519-238-4	Sequence 4, Appl
165	27	62.8	369	11	US-11-079-463-4402	Sequence 4402, Ap	238	26	60.5	257	9	US-10-063-703-94	Sequence 94, Appl
166	27	62.8	371	11	US-11-087-099-6646	Sequence 6646, Ap	239	26	60.5	257	9	US-10-194-487-304	Sequence 304, App
167	27	62.8	379	9	US-10-873-528-29	Sequence 29, Appl	240	26	60.5	257	9	US-10-195-883-304	Sequence 304, App

241	26	60.5	257	9	US-10-195-888-304	Sequence 304, App	314	26	60.5	393	9	US-10-504-588-8	Sequence 8, Appl1
242	26	60.5	257	9	US-10-195-889-304	Sequence 304, App	315	26	60.5	393	10	US-11-304-129-1	Sequence 10, Appl1
243	26	60.5	257	11	US-11-102-240-94	Sequence 94, Appl1	316	26	60.5	393	10	US-11-304-129-40	Sequence 40, Appl1
244	26	60.5	257	11	US-11-103-195-94	Sequence 94, Appl1	317	26	60.5	393	10	US-11-304-129-48	Sequence 48, Appl1
245	26	60.5	257	11	US-11-264-096-198	Sequence 198, App	318	26	60.5	393	11	US-11-073-420-30	Sequence 30, Appl1
246	26	60.5	257	11	US-11-264-096-199	Sequence 199, App	319	26	60.5	393	11	US-11-073-420-32	Sequence 32, Appl1
247	26	60.5	257	11	US-11-087-099-3443	Sequence 3443, Ap	320	26	60.5	396	10	US-11-302-262-20	Sequence 20, Appl1
248	26	60.5	257	11	US-11-282-495-10	Sequence 10, Appl1	321	26	60.5	396	10	US-11-114-992-76	Sequence 76, Appl1
249	26	60.5	274	11	US-11-232-405A-8	Sequence 8, Appl1	322	26	60.5	399	9	US-10-873-528-47	Sequence 47, Appl1
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252	26	60.5	298	11	US-11-096-568A-8555	Sequence 8555, Ap	325	26	60.5	406	11	US-11-079-463-8503	Sequence 8503, Ap
253	26	60.5	301	11	US-11-079-463-8481	GENERAL INFORMAT	326	26	60.5	409	11	US-11-087-099-6878	Sequence 6878, A
254	26	60.5	302	11	US-11-096-568A-8554	Sequence 8554, Ap	327	26	60.5	412	11	US-11-096-568A-18897	Sequence 18897, A
255	26	60.5	303	11	US-11-079-463-7310	Sequence 7310, Ap	328	26	60.5	413	11	US-11-096-568A-25241	Sequence 25241, A
256	26	60.5	305	11	US-11-096-568A-4351	Sequence 4351, Ap	329	26	60.5	414	11	US-11-188-298-4947	Sequence 4947, Ap
257	26	60.5	306	11	US-11-045-004-2045	Sequence 2045, Ap	330	26	60.5	415	11	US-11-188-298-4947	Sequence 4947, Ap
258	26	60.5	307	11	US-11-241-956-16	Sequence 16, Appl1	331	26	60.5	417	11	US-11-096-568A-15421	Sequence 15421, A
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262	26	60.5	310	11	US-11-079-463-5515	Sequence 5515, Ap	335	26	60.5	427	11	US-11-087-099-11888	Sequence 11888, A
263	26	60.5	311	9	US-10-455-772-340	Sequence 340, App	336	26	60.5	428	11	US-11-096-568A-22811	Sequence 22811, A
264	26	60.5	311	9	US-10-455-772-342	Sequence 342, App	337	26	60.5	430	11	US-11-087-099-5505	Sequence 5505, Ap
265	26	60.5	311	9	US-10-455-772-344	Sequence 344, App	338	26	60.5	430	11	US-11-087-099-7396	Sequence 7396, Ap
266	26	60.5	311	9	US-10-455-772-346	Sequence 346, App	339	26	60.5	430	11	US-11-087-099-11559	Sequence 11559, A
267	26	60.5	311	9	US-10-455-772-348	Sequence 348, App	340	26	60.5	431	11	US-11-087-099-1584	Sequence 1584, Ap
268	26	60.5	311	9	US-10-455-772-350	Sequence 350, App	341	26	60.5	431	11	US-11-087-099-1584	Sequence 1584, Ap
269	26	60.5	311	9	US-10-455-772-352	Sequence 352, App	342	26	60.5	432	11	US-11-194-246-308	Sequence 308, App
270	26	60.5	311	9	US-10-455-772-354	Sequence 354, App	343	26	60.5	433	11	US-11-087-099-2989	Sequence 2989, Ap
271	26	60.5	311	9	US-10-455-772-356	Sequence 356, App	344	26	60.5	433	11	US-11-188-298-653	Sequence 653, App
272	26	60.5	311	9	US-10-455-772-358	Sequence 358, App	345	26	60.5	434	9	US-10-453-372-372	Sequence 372, App
273	26	60.5	311	9	US-10-455-772-360	Sequence 360, App	346	26	60.5	434	11	US-11-087-099-8145	Sequence 8145, Ap
274	26	60.5	311	9	US-10-455-772-362	Sequence 362, App	347	26	60.5	434	11	US-11-188-298-7522	Sequence 7522, Ap
275	26	60.5	314	11	US-11-087-099-7323	Sequence 7323, Ap	348	26	60.5	435	11	US-11-188-298-7522	Sequence 7522, Ap
276	26	60.5	315	11	US-11-096-568A-18690	Sequence 18690, A	349	26	60.5	436	11	US-11-087-099-764	Sequence 764, App
277	26	60.5	316	11	US-11-000-463-382	Sequence 382, App	350	26	60.5	436	11	US-11-087-099-764	Sequence 764, App
278	26	60.5	316	11	US-11-000-463-382	Sequence 382, App	351	26	60.5	436	11	US-11-188-298-3170	Sequence 3170, Ap
279	26	60.5	316	11	US-11-079-463-8652	Sequence 8652, Ap	352	26	60.5	436	11	US-11-188-298-3170	Sequence 3170, Ap
280	26	60.5	327	11	US-11-188-298-13066	Sequence 13066, A	353	26	60.5	437	11	US-11-087-099-574	Sequence 574, App
281	26	60.5	328	11	US-11-188-298-13153	Sequence 13153, A	354	26	60.5	438	11	US-11-087-099-7911	Sequence 7911, Ap
282	26	60.5	329	9	US-10-505-590-4	Sequence 4, Appl1	355	26	60.5	438	11	US-11-087-099-10366	Sequence 10366, Ap
283	26	60.5	329	9	US-10-505-590-6	Sequence 6, Appl1	356	26	60.5	439	11	US-11-087-099-10366	Sequence 10366, Ap
284	26	60.5	329	9	US-11-188-298-15195	Sequence 15195, A	357	26	60.5	440	11	US-11-087-099-10389	Sequence 10389, A
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286	26	60.5	334	11	US-11-096-568A-19689	Sequence 19689, A	359	26	60.5	445	11	US-11-087-099-2557	Sequence 2557, Ap
287	26	60.5	336	9	US-10-455-772-374	Sequence 1547, Ap	360	26	60.5	449	11	US-11-096-568A-29489	Sequence 29489, A
288	26	60.5	338	9	US-10-455-772-376	Sequence 376, App	361	26	60.5	449	11	US-11-096-568A-33512	Sequence 33512, A
289	26	60.5	339	11	US-11-010-239-117	Sequence 117, App	362	26	60.5	449	11	US-11-096-568A-15478	Sequence 15478, A
290	26	60.5	339	11	US-11-010-239-117	Sequence 117, App	363	26	60.5	449	11	US-11-087-099-1445	Sequence 1445, Ap
291	26	60.5	339	11	US-11-172-740-2504	Sequence 2504, Ap	364	26	60.5	452	11	US-11-087-099-1445	Sequence 1445, Ap
292	26	60.5	339	11	US-11-172-740-2505	Sequence 2505, Ap	365	26	60.5	452	11	US-11-087-099-1445	Sequence 1445, Ap
293	26	60.5	343	11	US-11-096-568A-6730	Sequence 6730, Ap	366	26	60.5	452	11	US-11-087-099-1445	Sequence 1445, Ap
294	26	60.5	345	11	US-10-455-772-372	Sequence 372, App	367	26	60.5	471	9	US-10-539-396-4	Sequence 4, Appl1
295	26	60.5	345	11	US-11-188-298-1284	Sequence 1284, Ap	368	26	60.5	480	11	US-11-080-991-76	Sequence 76, Appl1
296	26	60.5	349	11	US-11-264-096-1591	Sequence 1591, Ap	369	26	60.5	481	9	US-10-506-454-1067	Sequence 1067, Ap
297	26	60.5	349	11	US-11-096-568A-4350	Sequence 4350, Ap	370	26	60.5	491	9	US-10-986-405-193	Sequence 193, App
298	26	60.5	352	11	US-11-096-568A-6729	Sequence 6729, Ap	371	26	60.5	497	11	US-11-096-568A-33511	Sequence 33511, A
299	26	60.5	352	11	US-11-096-568A-6729	Sequence 6729, Ap	372	26	60.5	502	11	US-11-087-099-8024	Sequence 8024, Ap
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301	26	60.5	359	9	US-10-763-712A-74	Sequence 74, Appl1	374	26	60.5	512	11	US-11-096-568A-15477	Sequence 15477, A
302	26	60.5	367	11	US-11-096-568A-25243	Sequence 25243, A	375	26	60.5	514	11	US-11-024-955-500	Sequence 500, App
303	26	60.5	367	11	US-11-188-298-14001	Sequence 14001, A	376	26	60.5	518	9	US-10-821-234-1165	Sequence 1165, Ap
304	26	60.5	370	11	US-11-096-568A-15117	Sequence 15117, A	377	26	60.5	520	11	US-11-087-099-10337	Sequence 10337, A
305	26	60.5	370	11	US-11-096-568A-15117	Sequence 15117, A	378	26	60.5	523	11	US-11-087-099-8632	Sequence 8632, Ap
306	26	60.5	373	11	US-11-087-099-2655	Sequence 2655, Ap	379	26	60.5	523	11	US-11-087-099-11876	Sequence 11876, A
307	26	60.5	373	11	US-11-087-099-2655	Sequence 2655, Ap	380	26	60.5	523	11	US-11-087-099-11876	Sequence 11876, A
308	26	60.5	378	11	US-11-096-568A-31554	Sequence 31554, A	381	26	60.5	527	11	US-11-069-642-21	Sequence 21, Appl1
309	26	60.5	379	11	US-11-096-568A-25242	Sequence 25242, A	382	26	60.5	534	11	US-11-188-298-21284	Sequence 21984, A
310	26	60.5	382	11	US-11-096-568A-15116	Sequence 15116, A	383	26	60.5	534	11	US-11-096-568A-7463	Sequence 7463, Ap
311	26	60.5	382	11	US-11-096-568A-15422	Sequence 15422, A	384	26	60.5	546	11	US-11-096-568A-31804	Sequence 31804, A
312	26	60.5	385	11	US-11-079-463-8871	Sequence 8871, Ap	385	26	60.5	558	9	US-10-467-657-694	Sequence 694, App
313	26	60.5	389	10	US-11-098-686-10137	Sequence 10137, A	386	26	60.5	558	11	US-11-096-568A-25748	Sequence 25748, A
										562	11	US-11-098-686-11416	Sequence 11416, A

387	26	60.5	567	11	US-11-096-568A-31803	Sequence 31803, A	460	25	58.1	109	11	US-11-096-568A-24882	Sequence 24882, A
388	26	60.5	572	11	US-11-072-512-2170	Sequence 2170, Ap	461	25	58.1	109	11	US-11-079-463-10113	Sequence 10113, A
389	26	60.5	581	11	US-11-096-568A-7462	Sequence 7462, Ap	462	25	58.1	117	11	US-11-000-463-271	Sequence 271, App
390	26	60.5	596	11	US-11-096-568A-31802	Sequence 31802, A	463	25	58.1	121	9	US-10-467-651-3042	Sequence 3042, Ap
391	26	60.5	603	11	US-11-096-568A-25747	Sequence 25747, A	464	25	58.1	125	9	US-10-644-807-2336	Sequence 2336, App
392	26	60.5	615	11	US-11-079-463-5873	Sequence 5873, Ap	465	25	58.1	125	9	US-10-644-807-336	Sequence 336, App
393	26	60.5	626	9	US-10-467-657-1772	Sequence 1772, Ap	466	25	58.1	129	9	US-10-467-657-1664	Sequence 1664, Ap
394	26	60.5	641	11	US-11-098-686-11129	Sequence 11129, A	467	25	58.1	130	11	US-11-055-892-156	Sequence 156, App
395	26	60.5	646	11	US-11-175-690-223	Sequence 223, App	468	25	58.1	132	11	US-11-186-284-83	Sequence 83, App1
396	26	60.5	647	11	US-11-175-690-212	Sequence 212, App	469	25	58.1	132	11	US-11-038-676-6	Sequence 6, App1
397	26	60.5	648	11	US-11-175-690-214	Sequence 214, App	470	25	58.1	140	11	US-11-124-367A-455	Sequence 455, App
398	26	60.5	649	11	US-11-175-690-213	Sequence 213, App	471	25	58.1	140	11	US-11-096-568A-15755	Sequence 15755, A
399	26	60.5	650	11	US-11-175-690-209	Sequence 209, App	472	25	58.1	142	11	US-11-079-463-6762	Sequence 6762, Ap
400	26	60.5	651	11	US-11-175-690-224	Sequence 224, App	473	25	58.1	144	9	US-10-467-657-7734	Sequence 7734, Ap
401	26	60.5	652	11	US-11-175-690-218	Sequence 218, App	474	25	58.1	147	11	US-11-087-099-2007	Sequence 2007, Ap
402	26	60.5	653	11	US-11-175-690-215	Sequence 215, App	475	25	58.1	151	11	US-11-264-096-506	Sequence 506, App
403	26	60.5	654	11	US-11-175-690-219	Sequence 219, App	476	25	58.1	151	11	US-11-264-096-508	Sequence 508, App
404	26	60.5	655	11	US-11-175-690-220	Sequence 220, App	477	25	58.1	155	11	US-11-096-568A-19978	Sequence 19978, A
405	26	60.5	656	11	US-11-175-690-225	Sequence 225, App	478	25	58.1	163	11	US-11-188-298-1281	Sequence 1281, Ap
406	26	60.5	657	11	US-11-175-690-216	Sequence 216, App	479	25	58.1	164	11	US-11-124-367A-453	Sequence 453, App
407	26	60.5	657	11	US-11-175-690-303	Sequence 303, App	480	25	58.1	164	11	US-11-124-367A-454	Sequence 454, App
408	26	60.5	658	11	US-11-175-690-210	Sequence 210, App	481	25	58.1	164	11	US-11-096-568A-1590	Sequence 1590, Ap
409	26	60.5	659	11	US-11-175-690-221	Sequence 221, App	482	25	58.1	166	11	US-11-188-298-8074	Sequence 8074, Ap
410	26	60.5	664	11	US-11-045-004-224	Sequence 224, App	483	25	58.1	169	11	US-11-172-740-2014	Sequence 2014, Ap
411	26	60.5	665	11	US-11-098-686-10601	Sequence 10601, A	484	25	58.1	173	11	US-11-188-298-1121	Sequence 1121, Ap
412	26	60.5	670	11	US-11-175-690-206	Sequence 206, App	485	25	58.1	174	11	US-11-096-568A-15754	Sequence 15754, A
413	26	60.5	730	11	US-11-188-298-16084	Sequence 16084, A	486	25	58.1	178	11	US-11-087-099-12412	Sequence 12412, A
414	26	60.5	738	11	US-11-188-298-8135	Sequence 8135, Ap	487	25	58.1	180	9	US-10-194-487-220	Sequence 220, App
415	26	60.5	763	11	US-11-188-298-3246	Sequence 3246, Ap	488	25	58.1	180	9	US-10-195-883-220	Sequence 220, App
416	26	60.5	766	11	US-11-147-047-27	Sequence 27, App1	489	25	58.1	180	9	US-10-195-888-220	Sequence 220, App
417	26	60.5	779	11	US-11-175-690-205	Sequence 205, App	490	25	58.1	180	9	US-10-195-889-220	Sequence 220, App
418	26	60.5	794	11	US-11-087-099-99826	Sequence 9926, Ap	491	25	58.1	180	11	US-11-264-096-613	Sequence 613, App
419	26	60.5	794	11	US-11-188-298-2291	Sequence 2291, Ap	492	25	58.1	185	9	US-10-506-454-1570	Sequence 1570, Ap
420	26	60.5	795	9	US-10-821-234-1002	Sequence 1002, Ap	493	25	58.1	186	11	US-11-096-568A-1989	Sequence 189, App
421	26	60.5	810	11	US-11-188-298-21020	Sequence 21020, A	494	25	58.1	191	9	US-10-644-807-422	Sequence 422, App
422	26	60.5	839	11	US-11-087-099-9591	Sequence 9591, Ap	495	25	58.1	191	11	US-11-096-568A-15753	Sequence 15753, A
423	26	60.5	849	11	US-11-087-099-10508	Sequence 10508, A	496	25	58.1	192	11	US-11-096-568A-17129	Sequence 17129, A
424	26	60.5	858	11	US-11-087-099-11449	Sequence 11449, A	497	25	58.1	195	11	US-11-264-096-610	Sequence 610, App
425	26	60.5	912	9	US-10-501-035-372	Sequence 372, App	498	25	58.1	197	11	US-11-096-568A-33678	Sequence 33678, A
426	26	60.5	915	11	US-11-175-690-208	Sequence 208, App	499	25	58.1	202	11	US-11-072-512-2576	Sequence 2576, Ap
427	26	60.5	924	11	US-11-079-463-9233	Sequence 9233, Ap	500	25	58.1	211	11	US-11-045-004-2172	Sequence 2172, Ap
428	26	60.5	928	11	US-11-129-741-2921	Sequence 2921, Ap	501	25	58.1	219	9	US-10-793-626-966	Sequence 966, App
429	26	60.5	1015	9	US-10-957-569-51	Sequence 51, App1	502	25	58.1	219	11	US-11-087-099-1367	Sequence 1367, Ap
430	26	60.5	1015	11	US-11-097-589-50	Sequence 50, App1	503	25	58.1	219	11	US-11-188-298-1385	Sequence 1385, Ap
431	26	60.5	1047	11	US-11-124-367A-388	Sequence 388, App	504	25	58.1	223	11	US-11-096-568A-21835	Sequence 21835, A
432	26	60.5	1058	11	US-11-124-367A-387	Sequence 386, App	505	25	58.1	224	11	US-11-045-004-1560	Sequence 1560, Ap
433	26	60.5	1062	11	US-11-124-367A-386	Sequence 387, App	506	25	58.1	224	11	US-11-045-004-2079	Sequence 2079, Ap
434	26	60.5	1136	11	US-11-045-004-1583	Sequence 1583, Ap	507	25	58.1	228	11	US-11-052-554A-366	Sequence 366, App
435	26	60.5	1159	11	US-11-194-246-439	Sequence 439, App	508	25	58.1	233	9	US-10-523-328-1	Sequence 1, App1
436	26	60.5	1160	9	US-10-915-002-309	Sequence 309, App	509	25	58.1	233	11	US-11-246-387-8	Sequence 8, App1
437	26	60.5	1505	9	US-10-877-346-44	Sequence 44, App1	510	25	58.1	236	11	US-11-098-686-10100	Sequence 10100, A
438	26	60.5	2295	11	US-11-087-099-5450	Sequence 5450, Ap	511	25	58.1	236	11	US-11-079-463-8929	Sequence 8929, Ap
439	26	60.5	2385	9	US-10-510-941-8	Sequence 8, App1	512	25	58.1	237	11	US-11-096-568A-31128	Sequence 31128, A
440	26	60.5	2640	11	US-11-087-099-9931	Sequence 9931, Ap	513	25	58.1	238	11	US-11-096-568A-21834	Sequence 21834, A
441	26	60.5	2723	11	US-11-129-741-3318	Sequence 3318, Ap	514	25	58.1	242	11	US-11-096-568A-31127	Sequence 31127, A
442	26	60.5	3028	9	US-10-455-772-276	Sequence 276, App	515	25	58.1	244	9	US-10-793-626-2780	Sequence 2780, Ap
443	26	60.5	3028	9	US-10-455-772-284	Sequence 284, App	516	25	58.1	244	11	US-11-035-622-1148	Sequence 1148, Ap
444	26	60.5	3028	9	US-10-455-772-286	Sequence 286, App	517	25	58.1	246	11	US-11-087-099-6753	Sequence 6753, Ap
445	26	60.5	3028	9	US-10-455-772-288	Sequence 288, App	518	25	58.1	246	11	US-11-079-463-7736	Sequence 7736, Ap
446	25.5	59.3	507	11	US-11-096-568A-6960	Sequence 6960, Ap	519	25	58.1	247	11	US-11-096-568A-3126	Sequence 24767, A
447	25.5	59.3	515	11	US-11-096-568A-6959	Sequence 6959, Ap	520	25	58.1	253	11	US-11-096-568A-31126	Sequence 31126, A
448	25.5	59.3	517	11	US-11-096-568A-6958	Sequence 6958, Ap	521	25	58.1	255	11	US-11-087-099-3497	Sequence 3497, Ap
449	25	58.1	14	9	US-10-895-064-1611	Sequence 1611, Ap	522	25	58.1	257	9	US-10-467-657-176	Sequence 176, App
450	25	58.1	14	11	US-11-129-741-1611	Sequence 1611, Ap	523	25	58.1	257	9	US-10-467-657-1698	Sequence 368, Ap
451	25	58.1	19	9	US-10-895-064-2368	Sequence 2368, Ap	524	25	58.1	263	11	US-11-096-568A-33677	Sequence 33677, A
452	25	58.1	19	11	US-11-129-741-2368	Sequence 2368, Ap	525	25	58.1	269	11	US-11-096-568A-33676	Sequence 33676, A
453	25	58.1	70	11	US-11-096-568A-24883	Sequence 24883, A	526	25	58.1	270	11	US-11-096-568A-1988	Sequence 1988, Ap
454	25	58.1	79	11	US-11-079-463-5673	Sequence 5673, Ap	527	25	58.1	278	11	US-11-096-568A-25421	Sequence 25421, A
455	25	58.1	92	9	US-10-467-657-2378	Sequence 2378, Ap	528	25	58.1	281	11	US-11-096-568A-27675	Sequence 27675, A
456	25	58.1	93	11	US-11-000-463-272	Sequence 272, App	529	25	58.1	286	11	US-11-088-686-11112	Sequence 11112, A
457	25	58.1	99	11	US-11-079-463-7446	Sequence 7446, App	530	25	58.1	286	11	US-11-096-568A-25420	Sequence 25420, A
458	25	58.1	103	9	US-10-506-454-946	Sequence 946, App	531	25	58.1	290	11	US-11-079-463-5943	Sequence 5943, Ap
459	25	58.1	104	11	US-11-072-512-3720	Sequence 3720, Ap	532	25	58.1	292	11	US-11-188-298-14021	Sequence 14021, A

533	25	58.1	297	9	US-10-703-799B-158	Sequence 158, App	606	25	58.1	368	11	US-11-087-099-2556	Sequence 2556, Ap
534	25	58.1	302	11	US-11-096-568A-17128	Sequence 17128, A	607	25	58.1	370	11	US-11-079-463-7958	Sequence 7958, Ap
535	25	58.1	305	11	US-11-096-568A-25545	Sequence 25545, A	608	25	58.1	371	11	US-11-079-463-8624	Sequence 8624, Ap
536	25	58.1	302	11	US-11-264-728-8	Sequence 8, Appl1	609	25	58.1	375	11	US-11-079-463-7927	Sequence 7927, Ap
537	25	58.1	306	11	US-11-096-568A-27674	Sequence 27674, A	610	25	58.1	376	9	US-10-915-002-288	Sequence 288, App
538	25	58.1	308	11	US-11-072-512-3898	Sequence 3898, A	611	25	58.1	376	11	US-11-012-762-18	Sequence 18, Appl1
539	25	58.1	310	11	US-11-082-389-306	Sequence 306, App	612	25	58.1	376	11	US-11-012-762-20	Sequence 20, Appl1
540	25	58.1	311	11	US-11-190-188-15	Sequence 15, Appl	613	25	58.1	376	11	US-11-012-762-22	Sequence 22, Appl1
541	25	58.1	312	11	US-10-793-626-1210	Sequence 1210, Ap	614	25	58.1	376	11	US-11-012-762-24	Sequence 24, Appl1
542	25	58.1	312	11	US-11-124-367A-330	Sequence 330, App	615	25	58.1	377	11	US-11-024-959-281	Sequence 2404, Ap
543	25	58.1	312	11	US-11-124-367A-514	Sequence 514, App	616	25	58.1	378	8	US-10-511-937-2404	Sequence 4806, Ap
544	25	58.1	313	9	US-10-517-622-4	Sequence 4, Appl1	617	25	58.1	379	11	US-11-188-298-1806	Sequence 19003, A
545	25	58.1	313	11	US-11-096-568A-25544	Sequence 25544, A	618	25	58.1	380	11	US-11-188-298-19003	Sequence 2028, Ap
546	25	58.1	314	9	US-10-055-877-56	Sequence 56, Appl	619	25	58.1	383	11	US-10-793-626-2026	Sequence 6038, Ap
547	25	58.1	315	11	US-10-467-657-510	Sequence 510, App	620	25	58.1	384	11	US-11-079-463-6038	Sequence 12332, A
548	25	58.1	315	11	US-11-241-956-11	Sequence 11, Appl	621	25	58.1	385	11	US-11-188-298-12332	Sequence 50, Appl
549	25	58.1	317	11	US-11-096-568A-25419	Sequence 25419, A	622	25	58.1	387	9	US-10-467-657-50	Sequence 4476, Ap
550	25	58.1	317	11	US-11-096-568A-6964	Sequence 6964, Ap	623	25	58.1	387	9	US-10-467-657-4476	Sequence 7150, Ap
551	25	58.1	317	11	US-11-096-568A-33463	Sequence 33463, A	624	25	58.1	387	9	US-11-096-568A-33461	Sequence 33461, A
552	25	58.1	318	9	US-10-055-877-119	Sequence 119, App	625	25	58.1	390	11	US-11-079-463-9159	Sequence 9159, Ap
553	25	58.1	318	9	US-10-055-877-222	Sequence 222, App	626	25	58.1	391	11	US-10-873-528-142	Sequence 142, App
554	25	58.1	318	9	US-10-055-877-322	Sequence 322, App	627	25	58.1	392	9	US-10-703-799B-134	Sequence 8057, Ap
555	25	58.1	318	9	US-10-055-877-323	Sequence 323, App	628	25	58.1	392	9	US-11-096-568A-8057	Sequence 19948, A
556	25	58.1	318	9	US-10-055-877-324	Sequence 324, App	629	25	58.1	394	11	US-11-096-568A-19948	Sequence 2405, Ap
557	25	58.1	318	9	US-10-055-877-326	Sequence 326, App	630	25	58.1	394	11	US-10-511-937-2405	Sequence 1583, Ap
558	25	58.1	318	11	US-11-096-568A-6963	Sequence 6963, Ap	631	25	58.1	398	8	US-10-821-234-1593	Sequence 2450, Ap
559	25	58.1	318	11	US-11-079-463-9476	Sequence 9476, Ap	632	25	58.1	398	9	US-11-188-298-2450	Sequence 3337, A
560	25	58.1	319	9	US-10-055-877-221	Sequence 221, App	633	25	58.1	398	11	US-11-188-298-2450	Sequence 15132, A
561	25	58.1	319	9	US-10-055-877-223	Sequence 224, App	634	25	58.1	401	11	US-11-096-568A-33376	Sequence 18252, A
562	25	58.1	319	9	US-10-055-877-224	Sequence 404, App	635	25	58.1	402	11	US-11-188-298-18252	Sequence 7, Appl1
563	25	58.1	319	9	US-10-506-454-404	Sequence 410, App	636	25	58.1	402	11	US-11-188-298-18252	Sequence 19947, A
564	25	58.1	319	9	US-10-455-772-410	Sequence 412, App	637	25	58.1	403	9	US-10-528-031-7	Sequence 8158, Ap
565	25	58.1	319	9	US-10-455-772-412	Sequence 416, App	638	25	58.1	410	11	US-11-096-568A-19947	Sequence 33376, A
566	25	58.1	319	9	US-10-455-772-416	Sequence 418, App	639	25	58.1	410	11	US-11-079-463-8158	Sequence 2267, Ap
567	25	58.1	319	9	US-10-455-772-416	Sequence 418, App	640	25	58.1	412	11	US-11-072-512-2267	Sequence 1168, Ap
568	25	58.1	319	9	US-10-455-772-420	Sequence 422, App	641	25	58.1	413	11	US-11-188-298-1168	Sequence 18719, A
569	25	58.1	319	9	US-10-455-772-422	Sequence 422, App	642	25	58.1	413	11	US-11-188-298-18719	Sequence 6396, Ap
570	25	58.1	319	9	US-10-455-772-424	Sequence 424, App	643	25	58.1	416	11	US-10-467-657-6396	Sequence 7614, Ap
571	25	58.1	319	11	US-11-190-188-12	Sequence 12, Appl	644	25	58.1	419	9	US-10-467-657-7614	Sequence 52, Appl
572	25	58.1	319	11	US-11-188-298-15616	Sequence 15616, A	645	25	58.1	419	11	US-11-288-493-52	Sequence 4754, Ap
573	25	58.1	322	11	US-11-096-568A-8164	Sequence 8164, Ap	646	25	58.1	420	11	US-11-188-298-4754	Sequence 1080, Ap
574	25	58.1	322	11	US-11-188-298-8164	Sequence 4608, Ap	647	25	58.1	420	11	US-10-506-454-1080	Sequence 98, Appl
575	25	58.1	329	11	US-11-188-298-4608	Sequence 9692, Ap	648	25	58.1	423	9	US-11-229-371-98	Sequence 110, App
576	25	58.1	330	11	US-11-096-568A-6962	Sequence 24491, A	649	25	58.1	424	11	US-11-229-371-110	Sequence 117, App
577	25	58.1	336	11	US-11-096-568A-24491	Sequence 20659, A	650	25	58.1	424	11	US-11-229-371-117	Sequence 119, App
578	25	58.1	338	11	US-11-188-298-20969	Sequence 6480, Ap	651	25	58.1	424	11	US-11-229-371-119	Sequence 125, App
579	25	58.1	339	11	US-11-079-463-6480	Sequence 1609, Ap	652	25	58.1	424	11	US-11-229-371-125	Sequence 98, Appl
580	25	58.1	340	11	US-11-172-740-1609	Sequence 1609, Ap	653	25	58.1	424	11	US-11-228-923-98	Sequence 110, App
581	25	58.1	340	11	US-11-188-298-7463	Sequence 7463, Ap	654	25	58.1	424	11	US-11-228-923-110	Sequence 119, App
582	25	58.1	344	11	US-11-188-298-19120	Sequence 19120, A	655	25	58.1	424	11	US-11-228-923-117	Sequence 125, App
583	25	58.1	345	11	US-11-096-568A-25543	Sequence 25543, A	656	25	58.1	424	11	US-11-228-923-125	Sequence 98, Appl
584	25	58.1	346	9	US-10-793-626-504	Sequence 5797, Ap	657	25	58.1	424	11	US-11-228-923-117	Sequence 117, App
585	25	58.1	346	11	US-11-096-568A-5797	Sequence 20363, A	658	25	58.1	424	11	US-11-228-923-117	Sequence 119, App
586	25	58.1	347	11	US-11-188-298-20363	Sequence 33378, A	659	25	58.1	424	11	US-11-228-923-117	Sequence 125, App
587	25	58.1	348	11	US-11-096-568A-33378	Sequence 8352, Ap	660	25	58.1	424	11	US-11-228-923-117	Sequence 117, App
588	25	58.1	352	11	US-11-087-099-8352	Sequence 179, App	661	25	58.1	424	11	US-11-228-923-117	Sequence 119, App
589	25	58.1	354	9	US-10-485-517-366	Sequence 366, App	662	25	58.1	424	11	US-11-228-923-117	Sequence 125, App
590	25	58.1	354	9	US-10-485-517-366	Sequence 33462, A	663	25	58.1	424	11	US-11-228-923-117	Sequence 117, App
591	25	58.1	355	11	US-11-068-686-4	Sequence 4, Appl1	664	25	58.1	424	11	US-11-228-923-117	Sequence 119, App
592	25	58.1	355	11	US-11-127-877-64	Sequence 64, Appl1	665	25	58.1	424	11	US-11-228-923-117	Sequence 125, App
593	25	58.1	355	11	US-11-216-610-2	Sequence 2, Appl1	666	25	58.1	424	11	US-11-228-923-117	Sequence 119, App
594	25	58.1	355	11	US-11-216-610-2	Sequence 6, Appl1	667	25	58.1	424	11	US-11-228-923-117	Sequence 125, App
595	25	58.1	355	11	US-11-216-610-6	Sequence 14, Appl1	668	25	58.1	424	11	US-11-228-923-117	Sequence 119, App
596	25	58.1	356	9	US-10-505-550-14	Sequence 3887, Ap	669	25	58.1	424	11	US-11-228-923-117	Sequence 125, App
597	25	58.1	356	11	US-11-087-099-3387	Sequence 6581, Ap	670	25	58.1	424	11	US-11-228-923-117	Sequence 119, App
598	25	58.1	356	11	US-11-087-099-6581	Sequence 7253, Ap	671	25	58.1	424	11	US-11-228-923-117	Sequence 125, App
599	25	58.1	357	11	US-11-087-099-7253	Sequence 2, Appl1	672	25	58.1	424	11	US-11-228-923-117	Sequence 119, App
600	25	58.1	357	11	US-11-261-135-2	Sequence 8, Appl1	673	25	58.1	424	11	US-11-228-923-117	Sequence 125, App
601	25	58.1	360	9	US-10-650-326B-8	Sequence 4555, Ap	674	25	58.1	424	11	US-11-228-923-117	Sequence 119, App
602	25	58.1	363	11	US-11-087-099-5555	Sequence 103, App	675	25	58.1	424	11	US-11-228-923-117	Sequence 125, App
603	25	58.1	363	11	US-11-264-096-103	Sequence 237, App	676	25	58.1	424	11	US-11-228-923-117	Sequence 119, App
604	25	58.1	364	9	US-10-986-405-237		677	25	58.1	424	11	US-11-228-923-117	Sequence 125, App
605	25	58.1	364	9	US-10-986-405-237		678	25	58.1	424	11	US-11-228-923-117	Sequence 127, App

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680	25	58.1	459	11	US-11-228-875-127	Sequence 127, App	753	25	58.1	747	9	US-10-973-115B-426	Sequence 426, App
681	25	58.1	463	9	US-10-510-386-186	Sequence 186, App	754	25	58.1	747	9	US-10-216-161A-459	Sequence 459, App
682	25	58.1	465	11	US-11-188-238-22504	Sequence 22504, A	755	25	58.1	747	9	US-10-137-873A-426	Sequence 426, App
683	25	58.1	467	11	US-11-264-096-1976	Sequence 1976, Ap	756	25	58.1	747	9	US-10-152-370-426	Sequence 426, App
684	25	58.1	471	11	US-11-188-238-3821	Sequence 3821, Ap	757	25	58.1	747	11	US-11-230-153-426	Sequence 426, App
685	25	58.1	472	11	US-11-087-099-11838	Sequence 11838, A	758	25	58.1	749	11	US-11-188-298-9767	Sequence 9767, Ap
686	25	58.1	473	11	US-11-188-298-4416	Sequence 4416, Ap	759	25	58.1	752	11	US-11-087-099-11284	Sequence 11284, A
687	25	58.1	481	11	US-11-188-298-20529	Sequence 20529, A	760	25	58.1	753	11	US-11-188-298-1467	Sequence 1467, Ap
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693	25	58.1	493	11	US-11-087-099-5102	Sequence 5102, Ap	766	25	58.1	831	11	US-11-188-298-20141	Sequence 20141, A
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698	25	58.1	503	9	US-10-873-528-74	Sequence 74, Appl	771	25	58.1	915	11	US-11-144-987-16	Sequence 16, Appl
699	25	58.1	505	9	US-10-194-487-450	Sequence 450, App	772	25	58.1	915	11	US-11-144-987-22	Sequence 22, Appl
700	25	58.1	505	9	US-10-195-883-450	Sequence 450, App	773	25	58.1	915	11	US-11-144-987-36	Sequence 36, Appl
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702	25	58.1	505	9	US-10-195-889-450	Sequence 450, App	775	25	58.1	915	11	US-11-205-935-22	Sequence 22, Appl
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704	25	58.1	514	9	US-10-840-688-2	Sequence 2, Appl	777	25	58.1	917	11	US-11-144-987-20	Sequence 20, Appl
705	25	58.1	514	9	US-10-840-688-3	Sequence 3, Appl	778	25	58.1	917	11	US-11-144-987-24	Sequence 24, Appl
706	25	58.1	514	9	US-10-840-688-4	Sequence 4, Appl	779	25	58.1	917	11	US-11-144-987-26	Sequence 26, Appl
707	25	58.1	514	9	US-10-840-688-5	Sequence 5, Appl	780	25	58.1	917	11	US-11-205-935-20	Sequence 20, Appl
708	25	58.1	514	9	US-10-840-688-6	Sequence 6, Appl	781	25	58.1	917	11	US-11-205-935-24	Sequence 24, Appl
709	25	58.1	514	9	US-10-840-688-7	Sequence 7, Appl	782	25	58.1	917	11	US-11-205-935-26	Sequence 26, Appl
710	25	58.1	514	9	US-10-840-688-8	Sequence 8, Appl	783	25	58.1	917	11	US-11-096-568A-17480	Sequence 17480, A
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715	25	58.1	514	9	US-10-840-688-13	Sequence 13, Appl	788	25	58.1	931	11	US-11-096-568A-14779	Sequence 14779, A
716	25	58.1	514	9	US-10-840-688-21	Sequence 21, Appl	789	25	58.1	932	11	US-11-057-058-59	Sequence 59, Appl
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718	25	58.1	519	11	US-11-096-568A-27156	Sequence 371, App	791	25	58.1	1016	11	US-11-072-512-8473	Sequence 2473, Ap
719	25	58.1	523	11	US-11-024-959-371	Sequence 382, App	792	25	58.1	1020	9	US-11-087-099-8498	Sequence 8498, Ap
720	25	58.1	528	11	US-11-087-099-382	Sequence 19615, A	793	25	58.1	1023	9	US-10-513-786-4	Sequence 4, Appl
721	25	58.1	531	11	US-11-188-238-19615	Sequence 2, Appl	794	25	58.1	1033	9	US-10-330-773-367	Sequence 367, App
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723	25	58.1	534	11	US-11-188-238-20747	Sequence 29266, A	796	25	58.1	1038	11	US-10-511-937-2443	Sequence 2443, Ap
724	25	58.1	540	11	US-11-096-568A-29266	Sequence 463, App	797	25	58.1	1038	11	US-10-511-937-2443	Sequence 710, App
725	25	58.1	541	11	US-11-024-959-463	Sequence 29265, A	798	25	58.1	1038	11	US-10-995-561-710	Sequence 29006, A
726	25	58.1	541	11	US-11-096-568A-29265	Sequence 9463, Ap	799	25	58.1	1038	11	US-11-087-099-8531	Sequence 8531, Ap
727	25	58.1	548	11	US-11-079-463-9463	Sequence 10840, A	800	25	58.1	1038	11	US-11-087-099-8531	Sequence 8531, Ap
728	25	58.1	548	11	US-11-188-298-10840	Sequence 168, App	801	25	58.1	1038	11	US-11-087-099-8531	Sequence 8531, Ap
729	25	58.1	552	11	US-11-052-554A-168	Sequence 89, Appl	802	25	58.1	1038	11	US-11-087-099-8531	Sequence 8531, Ap
730	25	58.1	556	9	US-10-511-538-89	Sequence 27155, A	803	25	58.1	1038	11	US-11-124-367A-394	Sequence 394, App
731	25	58.1	568	11	US-11-096-568A-27155	Sequence 1839, App	804	25	58.1	1038	11	US-11-124-367A-394	Sequence 394, App
732	25	58.1	573	11	US-11-188-238-1839	Sequence 7, Appl	805	25	58.1	1038	11	US-11-124-367A-394	Sequence 28, Appl
733	25	58.1	574	9	US-10-507-275-7	Sequence 50, Appl	806	25	58.1	1038	11	US-11-129-741-2947	Sequence 2947, Ap
734	25	58.1	574	9	US-10-770-726-50	Sequence 9982, Ap	807	25	58.1	1038	11	US-11-129-741-2947	Sequence 355, Ap
735	25	58.1	589	11	US-11-188-238-9982	Sequence 9533, Ap	808	25	58.1	1038	11	US-11-129-741-2947	Sequence 355, Ap
736	25	58.1	592	11	US-11-079-463-9593	Sequence 29264, A	809	25	58.1	1038	11	US-11-129-741-2947	Sequence 355, Ap
737	25	58.1	596	11	US-11-096-568A-29264	Sequence 484, App	810	25	58.1	1038	11	US-11-129-741-2947	Sequence 355, Ap
738	25	58.1	603	11	US-11-024-959-484	Sequence 40, Appl	811	25	58.1	1038	11	US-11-129-741-2947	Sequence 355, Ap
739	25	58.1	614	9	US-10-745-586-40	Sequence 2453, Ap	812	25	58.1	1038	11	US-11-129-741-2947	Sequence 355, Ap
740	25	58.1	632	11	US-11-045-004-2453	Sequence 496, App	813	25	58.1	1038	11	US-11-129-741-2947	Sequence 355, Ap
741	25	58.1	653	11	US-11-045-004-496	Sequence 7401, App	814	25	58.1	1038	11	US-11-129-741-2947	Sequence 355, Ap
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743	25	58.1	670	9	US-10-506-454-278	Sequence 278, App	816	25	58.1	1038	11	US-11-129-741-2947	Sequence 355, Ap
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745	25	58.1	681	11	US-11-188-238-1421	Sequence 8082, App	818	25	58.1	1038	11	US-11-129-741-2947	Sequence 355, Ap
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748	25	58.1	724	11	US-11-087-099-10669	Sequence 344, App	821	25	58.1	1038	11	US-11-129-741-2947	Sequence 355, Ap
749	25	58.1	738	9	US-10-517-939-344	Sequence 8609, Ap	822	25	58.1	1038	11	US-11-129-741-2947	Sequence 355, Ap
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826	25	58.1	2458	11	US-11-186-999-11	Sequence 11, Appl	899	24	55.8	194	11	US-11-096-568A-21375	Sequence 21375, A
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828	25	58.1	2483	11	US-11-186-999-2	Sequence 2, Appl	901	24	55.8	196	11	US-11-096-568A-2919	Sequence 2919, Ap
829	25	58.1	3056	11	US-11-109-156-20	Sequence 20, Appl	902	24	55.8	199	11	US-11-188-298-1825	Sequence 1825, Ap
830	25	58.1	3389	9	US-10-204-252-10	Sequence 10, Appl	903	24	55.8	203	11	US-11-072-512-3713	Sequence 3713, Ap
831	25	58.1	3391	9	US-10-204-252-6	Sequence 6, Appl	904	24	55.8	206	11	US-11-040-472-2	Sequence 2, Appl
832	25	58.1	3391	9	US-10-204-252-8	Sequence 8, Appl	905	24	55.8	210	7	US-09-995-493-116	Sequence 116, Ap
833	25	58.1	3391	9	US-10-204-252-12	Sequence 12, Appl	906	24	55.8	212	11	US-11-096-568A-20714	Sequence 20714, A
834	25	58.1	3391	9	US-10-204-252-14	Sequence 14, Appl	907	24	55.8	212	11	US-11-188-298-8906	Sequence 8906, Ap
835	25	58.1	3391	9	US-10-204-252-16	Sequence 16, Appl	908	24	55.8	213	11	US-11-096-568A-8082	Sequence 8082, Ap
836	25	58.1	3391	9	US-10-204-252-18	Sequence 18, Appl	909	24	55.8	213	11	US-11-096-568A-20161	Sequence 20161, A
837	25	58.1	3391	9	US-10-204-252-20	Sequence 20, Appl	910	24	55.8	213	11	US-11-079-463-9098	Sequence 9098, Ap
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839	25	58.1	3704	9	US-10-513-786-1	Sequence 1, Appl	912	24	55.8	216	9	US-10-506-454-149	Sequence 149, Ap
840	25	58.1	4128	9	US-10-770-726-77	Sequence 77, Appl	913	24	55.8	221	11	US-11-188-298-16485	Sequence 16485, A
841	25	58.1	4443	11	US-11-129-741-3478	Sequence 3478, Ap	914	24	55.8	224	11	US-11-096-568A-23843	Sequence 23843, A
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843	25	58.1	4473	11	US-11-129-741-460	Sequence 460, Ap	916	24	55.8	225	11	US-11-232-440-3	Sequence 440, Ap
844	24.5	57.0	365	11	US-11-087-099-8645	Sequence 8645, Ap	917	24	55.8	227	11	US-11-232-440-3	Sequence 440, Ap
845	24.5	57.0	382	11	US-11-087-099-11902	Sequence 11902, A	918	24	55.8	228	11	US-11-104-111-6	Sequence 111, Ap
846	24.5	57.0	487	11	US-11-096-568A-22730	Sequence 22730, A	919	24	55.8	228	11	US-11-096-568A-2918	Sequence 2918, Ap
847	24.5	57.0	492	11	US-11-096-568A-22729	Sequence 22729, A	920	24	55.8	230	11	US-11-087-099-1070	Sequence 1070, Ap
848	24.5	57.0	530	11	US-11-096-568A-22728	Sequence 22728, A	921	24	55.8	231	11	US-11-096-568A-23841	Sequence 23841, A
849	24	55.8	11	9	US-10-895-064-588	Sequence 588, App	922	24	55.8	238	7	US-09-978-360A-745	Sequence 745, Ap
850	24	55.8	11	11	US-11-129-741-588	Sequence 588, App	923	24	55.8	238	11	US-11-096-568A-23995	Sequence 23995, A
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852	24	55.8	18	11	US-11-004-399-2263	Sequence 2263, Ap	925	24	55.8	241	11	US-11-074-176-66	Sequence 176, Ap
853	24	55.8	43	9	US-10-467-657-4530	Sequence 4530, Ap	926	24	55.8	241	11	US-11-096-568A-2918	Sequence 2918, Ap
854	24	55.8	47	11	US-11-096-568A-2649	Sequence 2649, Ap	927	24	55.8	243	11	US-11-087-099-1070	Sequence 1070, Ap
855	24	55.8	50	9	US-10-895-064-2204	Sequence 2204, Ap	928	24	55.8	248	11	US-11-096-568A-23841	Sequence 23841, A
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858	24	55.8	58	11	US-11-264-096-328	Sequence 328, App	931	24	55.8	259	11	US-10-778-636-3	Sequence 778, Ap
859	24	55.8	61	11	US-11-079-463-7478	Sequence 7478, Ap	932	24	55.8	264	9	US-10-778-636-4	Sequence 778, Ap
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863	24	55.8	70	11	US-11-079-463-9543	Sequence 9543, Ap	936	24	55.8	271	11	US-11-096-568A-2875	Sequence 2875, Ap
864	24	55.8	71	11	US-11-004-399-973	Sequence 973, App	937	24	55.8	274	11	US-11-096-568A-2877	Sequence 2877, Ap
865	24	55.8	81	11	US-11-188-298-10986	Sequence 10986, A	938	24	55.8	274	11	US-11-096-568A-6514	Sequence 6514, Ap
866	24	55.8	84	11	US-11-079-463-7326	Sequence 7326, Ap	939	24	55.8	277	11	US-11-096-568A-20713	Sequence 20713, A
867	24	55.8	84	11	US-11-079-463-9515	Sequence 9515, Ap	940	24	55.8	277	11	US-11-072-512-3046	Sequence 3046, Ap
868	24	55.8	87	9	US-10-506-454-475	Sequence 475, App	941	24	55.8	278	11	US-11-096-568A-10324	Sequence 10324, A
869	24	55.8	93	11	US-11-079-463-6977	Sequence 6977, Ap	942	24	55.8	279	11	US-11-096-568A-10324	Sequence 10324, A
870	24	55.8	94	11	US-11-249-873-5	Sequence 5, Appl	943	24	55.8	281	9	US-10-821-234-1080	Sequence 1080, Ap
871	24	55.8	95	11	US-11-045-004-2791	Sequence 2791, Ap	944	24	55.8	283	11	US-11-096-568A-20159	Sequence 20159, A
872	24	55.8	110	11	US-11-096-568A-24899	Sequence 24899, A	945	24	55.8	286	11	US-11-124-368A-221	Sequence 221, App
873	24	55.8	111	11	US-11-169-041-165	Sequence 165, App	946	24	55.8	286	11	US-11-057-012-93	Sequence 93, Appl
874	24	55.8	115	11	US-11-087-099-2176	Sequence 2176, Ap	947	24	55.8	290	9	US-10-793-626-1892	Sequence 1892, Ap
875	24	55.8	120	11	US-11-072-512-2133	Sequence 2133, Ap	948	24	55.8	291	9	US-10-821-234-1560	Sequence 1560, Ap
876	24	55.8	121	9	US-10-793-626-1446	Sequence 1446, Ap	949	24	55.8	291	11	US-11-301-554-333	Sequence 333, App
877	24	55.8	123	11	US-11-096-568A-24898	Sequence 24898, A	950	24	55.8	291	11	US-11-087-099-6931	Sequence 6931, Ap
878	24	55.8	123	11	US-11-064-096-1708	Sequence 1708, Ap	951	24	55.8	294	11	US-11-096-568A-10246	Sequence 10246, A
879	24	55.8	125	11	US-11-079-463-5352	Sequence 5352, Ap	952	24	55.8	295	11	US-11-096-568A-23994	Sequence 23994, A
880	24	55.8	138	11	US-11-096-568A-24897	Sequence 24897, A	953	24	55.8	295	11	US-11-096-568A-23994	Sequence 23994, A
881	24	55.8	139	9	US-10-485-517-162	Sequence 162, App	954	24	55.8	297	9	US-10-203-486-3	Sequence 3, Appl
882	24	55.8	145	11	US-11-079-463-5727	Sequence 5727, Ap	955	24	55.8	297	11	US-11-096-568A-16474	Sequence 16474, A
883	24	55.8	150	11	US-11-045-004-1814	Sequence 1814, Ap	956	24	55.8	298	9	US-10-511-538-186	Sequence 186, App
884	24	55.8	156	11	US-11-072-512-3652	Sequence 3652, Ap	957	24	55.8	301	9	US-10-506-454-918	Sequence 918, Appl
885	24	55.8	156	11	US-11-096-568A-8084	Sequence 8084, Ap	958	24	55.8	303	9	US-10-967-671-17	Sequence 17, Appl
886	24	55.8	162	11	US-11-096-568A-10248	Sequence 10248, A	959	24	55.8	303	9	US-10-793-626-1140	Sequence 1140, Ap
887	24	55.8	175	11	US-11-096-568A-8083	Sequence 8083, Ap	960	24	55.8	304	11	US-11-188-298-15846	Sequence 15846, A
888	24	55.8	180	11	US-11-096-568A-19963	Sequence 19963, A	961	24	55.8	305	11	US-11-096-568A-16473	Sequence 16473, A
889	24	55.8	183	11	US-11-188-298-7633	Sequence 7633, Ap	962	24	55.8	308	11	US-11-188-298-4358	Sequence 4358, Ap
890	24	55.8	183	11	US-11-264-096-1791	Sequence 1791, Ap	963	24	55.8	309	9	US-10-511-538-188	Sequence 188, App
891	24	55.8	184	11	US-11-264-096-1791	Sequence 1791, Ap	964	24	55.8	309	9	US-11-241-956-13	Sequence 13, Appl
892	24	55.8	185	11	US-11-264-096-1711	Sequence 1711, Ap	965	24	55.8	310	11	US-10-511-538-215	Sequence 215, App
893	24	55.8	188	11	US-11-072-512-2713	Sequence 2713, Ap	966	24	55.8	310	11	US-11-055-163-9	Sequence 9, Appl
894	24	55.8	189	11	US-11-098-686-11293	Sequence 11293, A	967	24	55.8	312	9	US-10-055-877-339	Sequence 339, App
895	24	55.8	192	11	US-11-079-463-9309	Sequence 9309, Ap	968	24	55.8	312	9	US-10-511-538-97	Sequence 97, Appl
896	24	55.8	193	11	US-11-055-822-568	Sequence 568, App	969	24	55.8	312	11	US-11-096-568A-15553	Sequence 15553, A
897	24	55.8	194	9	US-10-506-454-101	Sequence 101, App	970	24	55.8	312	11	US-11-096-568A-15553	Sequence 15553, A

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971 24 55.8 313 11 US-11-096-568A-2917 Sequence 2917, Ap
972 24 55.8 313 11 US-11-096-568A-2920 Sequence 2920, Ap
973 24 55.8 314 9 US-10-455-772-626 Sequence 626, App
974 24 55.8 314 9 US-10-455-772-632 Sequence 632, App
975 24 55.8 314 11 US-11-045-004-1502 Sequence 1502, Ap
976 24 55.8 317 11 US-11-188-298-1644 Sequence 1644, Ap
977 24 55.8 317 11 US-11-188-298-10252 Sequence 10252, A
978 24 55.8 317 11 US-11-045-004-185 Sequence 385, App
979 24 55.8 318 9 US-10-055-877-220 Sequence 220, App
980 24 55.8 318 9 US-10-055-877-325 Sequence 325, App
981 24 55.8 319 9 US-10-511-538-21 Sequence 21, App1
982 24 55.8 320 9 US-10-821-234-1627 Sequence 1627, App
983 24 55.8 320 11 US-11-112-882-76 Sequence 76, App1
984 24 55.8 320 11 US-11-096-568A-15552 Sequence 15552, A
985 24 55.8 320 11 US-11-188-298-1527 Sequence 1527, Ap
986 24 55.8 322 8 US-10-509-131-5 Sequence 5, App11
987 24 55.8 324 11 US-11-040-472-4 Sequence 4, App11
988 24 55.8 324 11 US-11-087-099-4100 Sequence 4100, Ap
989 24 55.8 325 9 US-10-793-626-1076 Sequence 1076, Ap
990 24 55.8 325 9 US-10-510-101-156 Sequence 156, App
991 24 55.8 326 11 US-11-156-084-239 Sequence 239, App
992 24 55.8 327 9 US-10-055-877-337 Sequence 337, App
993 24 55.8 329 11 US-11-188-298-20083 Sequence 20083, A
994 24 55.8 330 11 US-11-188-298-19932 Sequence 19932, A
995 24 55.8 331 9 US-10-505-590-22 Sequence 22, App1
996 24 55.8 331 11 US-11-188-298-4083 Sequence 4083, Ap
997 24 55.8 332 9 US-10-505-590-2 Sequence 2, App11
998 24 55.8 332 11 US-11-096-568A-22602 Sequence 22602, A
999 24 55.8 333 11 US-11-087-099-2874 Sequence 2874, Ap
1000 24 55.8 333 11 US-11-188-298-18956 Sequence 18956, A
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ALIGNMENTS

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RESULT 1
US-10-530-061-1718
; Sequence 1718, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.03US02/EKS/M-M
; CURRENT FILING DATE: 2005-04-04
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1718
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-1718

Query Match 100.0%; Score 43; DB 9; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.015;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

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; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.03US02/EKS/M-M
; CURRENT FILING DATE: 2005-04-04
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1719
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-1719

Query Match 100.0%; Score 43; DB 9; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.015;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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RESULT 3
US-10-530-253-27
; Sequence 27, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Casaretti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT FILING DATE: 2005-04-04
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 27
; LENGTH: 105
; TYPE: PRT
; ORGANISM: Human papillomavirus type 18
US-10-530-253-27

Query Match 100.0%; Score 43; DB 9; Length 105;
Best Local Similarity 100.0%; Pred. No. 0.12;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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RESULT 2
US-10-530-061-1719
; Sequence 1719, Application US/10530061

Query Match 100.0%; Score 43; DB 9; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.015;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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RESULT 4
US-10-530-061-864
; Sequence 864, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT

Query Match 100.0%; Score 43; DB 9; Length 105;
Best Local Similarity 100.0%; Pred. No. 0.12;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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APPLICANT: SETTE, ALESSANDRO
TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
FILE REFERENCE: 2060.033US02/EKS/M-M
CURRENT APPLICATION NUMBER: US/10/530,061
CURRENT FILING DATE: 2005-04-04
PRIOR APPLICATION NUMBER: PCT/US03/31308
PRIOR FILING DATE: 2003-10-03
PRIOR APPLICATION NUMBER: 60/416,207
PRIOR FILING DATE: 2002-10-03
PRIOR APPLICATION NUMBER: 60/417,269
PRIOR FILING DATE: 2002-10-08
NUMBER OF SEQ ID NOS: 2503
SOFTWARE: PatentIn version 3.3
SEQ ID NO 864
LENGTH: 8
TYPE: PRT
ORGANISM: Human papillomavirus
US-10-530-061-864

Query Match 90.7%; Score 39; DB 9; Length 8;
Best Local Similarity 100.0%; Pred. No. 1.9e+05;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 LFLNTLSFV 9
Db 1 LFLNTLSFV 8

RESULT 5
US-10-530-061-1729
Sequence 1729, Application US/10530061
Publication No. US20060079453A1
GENERAL INFORMATION:
APPLICANT: SIDNEY, JOHN
APPLICANT: SOUTHWOOD, SCOTT
TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
FILE REFERENCE: 2060.033US02/EKS/M-M
CURRENT APPLICATION NUMBER: US/10/530,061
CURRENT FILING DATE: 2005-04-04
PRIOR APPLICATION NUMBER: PCT/US03/31308
PRIOR FILING DATE: 2003-10-03
PRIOR APPLICATION NUMBER: 60/416,207
PRIOR FILING DATE: 2002-10-03
PRIOR APPLICATION NUMBER: 60/417,269
PRIOR FILING DATE: 2002-10-08
NUMBER OF SEQ ID NOS: 2503
SOFTWARE: PatentIn version 3.3
SEQ ID NO 1729
LENGTH: 15
TYPE: PRT
ORGANISM: Human papillomavirus
US-10-530-061-1729

Query Match 88.4%; Score 38; DB 9; Length 15;
Best Local Similarity 88.9%; Pred. No. 0.15;
Matches 8; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 LFLNTLSFV 9
Db 7 LFLNTLSFV 15

RESULT 6
US-10-530-061-1730
Sequence 1730, Application US/10530061
Publication No. US20060079453A1
GENERAL INFORMATION:
APPLICANT: SIDNEY, JOHN
APPLICANT: SOUTHWOOD, SCOTT
TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
FILE REFERENCE: 2060.033US02/EKS/M-M

CURRENT APPLICATION NUMBER: US/10/530,061
CURRENT FILING DATE: 2005-04-04
PRIOR APPLICATION NUMBER: PCT/US03/31308
PRIOR FILING DATE: 2003-10-03
PRIOR APPLICATION NUMBER: 60/416,207
PRIOR FILING DATE: 2002-10-03
PRIOR APPLICATION NUMBER: 60/417,269
PRIOR FILING DATE: 2002-10-08
NUMBER OF SEQ ID NOS: 2503
SOFTWARE: PatentIn version 3.3
SEQ ID NO 1730
LENGTH: 15
TYPE: PRT
ORGANISM: Human papillomavirus
US-10-530-061-1730

Query Match 88.4%; Score 38; DB 9; Length 15;
Best Local Similarity 88.9%; Pred. No. 0.15;
Matches 8; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 LFLNTLSFV 9
Db 4 LFLNTLSFV 12

RESULT 7
US-10-530-253-32
Sequence 32, Application US/10530253
Publication No. US20060014926A1
GENERAL INFORMATION:
APPLICANT: Cassetti, Maria C.
APPLICANT: Smith, Larry
APPLICANT: Jeffrey K. Pullen
TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
FILE REFERENCE: 00630/100M137-US2
CURRENT APPLICATION NUMBER: US/10/530,253
CURRENT FILING DATE: 2005-04-04
PRIOR APPLICATION NUMBER: PCT/US2003/031726
PRIOR FILING DATE: 2003-10-02
PRIOR APPLICATION NUMBER: US 60/415,929
PRIOR FILING DATE: 2002-10-03
NUMBER OF SEQ ID NOS: 65
SOFTWARE: PatentIn version 3.1
SEQ ID NO 32
LENGTH: 106
TYPE: PRT
ORGANISM: Human papillomavirus type 45
US-10-530-253-32

Query Match 88.4%; Score 38; DB 9; Length 106;
Best Local Similarity 88.9%; Pred. No. 1.2;
Matches 8; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 LFLNTLSFV 9
Db 90 LFLNTLSFV 98

RESULT 8
US-10-530-253-37
Sequence 37, Application US/10530253
Publication No. US20060014926A1
GENERAL INFORMATION:
APPLICANT: Cassetti, Maria C.
APPLICANT: Smith, Larry
APPLICANT: Jeffrey K. Pullen
TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
FILE REFERENCE: 00630/100M137-US2
CURRENT APPLICATION NUMBER: US/10/530,253
CURRENT FILING DATE: 2005-04-04
PRIOR APPLICATION NUMBER: PCT/US2003/031726

; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 37
; LENGTH: 107
; TYPE: PRT
; ORGANISM: Human papillomavirus type 59
US-10-530-253-37

Query Match 83.7%; Score 36; DB 9; Length 107;
Best Local Similarity 77.8%; Pred. No. 2.9;
Matches 7; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 1 LFLNTLSFV 9
DB 91 LFMDTLSFV 99

RESULT 9
US-10-530-061-865
; Sequence 865, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.03US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; CURRENT FILING DATE: 2005-04-04
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 865
; LENGTH: 8
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-865

Query Match 79.1%; Score 34; DB 9; Length 8;
Best Local Similarity 87.5%; Pred. No. 1.9e+05;
Matches 7; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 LFLNTLSF 8
DB 1 LFLSTLSF 8

RESULT 10
US-10-467-657-3932
; Sequence 3932, Application US/10467657
; Publication No. US20050260581A1
; GENERAL INFORMATION:
; APPLICANT: CHIRON SPA
; APPLICANT: FONTANA Maria Rita
; APPLICANT: PIZZA Mariagrazia
; APPLICANT: MASTIGNANI Vega
; APPLICANT: MONACI Elisabetta
; TITLE OF INVENTION: GONOCOCCAL PROTEINS AND NUCLEIC ACIDS
; FILE REFERENCE:
; CURRENT APPLICATION NUMBER: US/10/467,657
; CURRENT FILING DATE: 2003-08-11
; PRIOR APPLICATION NUMBER: GB-0103424.8
; PRIOR FILING DATE: 2001-02-12
; NUMBER OF SEQ ID NOS: 9218
; SOFTWARE: SeqWin99, version 1.04

; SEQ ID NO 3932
; LENGTH: 49
; TYPE: PRT
; ORGANISM: Neisseria gonorrhoeae
US-10-467-657-3932

Query Match 74.4%; Score 32; DB 9; Length 49;
Best Local Similarity 66.7%; Pred. No. 8.1;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 LFLNTLSFV 9
DB 20 LFMKTLSEFL 28

RESULT 11
US-11-098-686-10923
; Sequence 10923, Application US/11098686
; Publication No. US20060024696A1
; GENERAL INFORMATION:
; APPLICANT: Kapur, Vivek and Gebhart, Connie J.
; TITLE OF INVENTION: NUCLEIC ACID AND POLYPEPTIDE SEQUENCES
; FILE REFERENCE: 09531-128001
; CURRENT APPLICATION NUMBER: US/11/098,686
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31318
; PRIOR FILING DATE: 2003-10-01
; PRIOR APPLICATION NUMBER: US 60/416,395
; PRIOR FILING DATE: 2002-10-04
; NUMBER OF SEQ ID NOS: 11433
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 10923
; LENGTH: 440
; TYPE: PRT
; ORGANISM: Lawsonia intracellularis
US-11-098-686-10923

Query Match 74.4%; Score 32; DB 11; Length 440;
Best Local Similarity 55.6%; Pred. No. 80;
Matches 5; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 1 LFLNTLSFV 9
DB 47 VFINTCSFI 55

RESULT 12
US-11-079-463-9784
; Sequence 9784, Application US/11079463
; Publication No. US20060073161A1
; GENERAL INFORMATION:
; APPLICANT: Gary L. Breton
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO BACTERIOIDES FRAC
; FILE REFERENCE: PATH00-03DIIV2
; CURRENT APPLICATION NUMBER: US/11/079,463
; CURRENT FILING DATE: 2005-03-14
; PRIOR APPLICATION NUMBER: US 60/128,705
; PRIOR FILING DATE: 1999-04-09
; PRIOR APPLICATION NUMBER: US 09/540,209
; PRIOR FILING DATE: 2000-04-04
; NUMBER OF SEQ ID NOS: 10444
; SEQ ID NO 9784
; LENGTH: 514
; TYPE: PRT
; ORGANISM: B.fragilis
US-11-079-463-9784

Query Match 74.4%; Score 32; DB 11; Length 514;
Best Local Similarity 66.7%; Pred. No. 95;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 LFLNTLSFV 9
| | | | |
Db 201 LFLNTLDFI 209

RESULT 13

US-11-205-667-2
; Sequence 2, Application US/11205667
; Publication No. US20060057617A1
; GENERAL INFORMATION:
; APPLICANT: Clark, Duncan Roy
; APPLICANT: Vincent, Suzanne Patricia
; TITLE OF INVENTION: Amplification Process
; FILE REFERENCE: 41577-319161
; CURRENT APPLICATION NUMBER: US/11/205,667
; CURRENT FILING DATE: 2005-08-17
; PRIOR APPLICATION NUMBER: US10/135,807
; PRIOR FILING DATE: 2002-04-30
; PRIOR APPLICATION NUMBER: GB 0110501.4
; PRIOR FILING DATE: 2001-04-30
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 2
; LENGTH: 207
; TYPE: PRT
; ORGANISM: Aeropyrum pernix
US-11-205-667-2

Query Match 72.1%; Score 31; DB 11; Length 207;
Best Local Similarity 62.5%; Pred. No. 58;
Matches 5; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY 2 FLNTLSFV 9
| | | | |
Db 11 FVNTLSFV 18

RESULT 14

US-11-004-399-3166
; Sequence 3166, Application US/11004399
; Publication No. US20060053516A1
; GENERAL INFORMATION:
; APPLICANT: Chye, Mee Lee
; APPLICANT: Li, Hong Ye
; APPLICANT: Ramalingam, Sathis Kumar
; APPLICANT: Poon, Leo Lit Man
; APPLICANT: Peiris, Joseph Sriyal Malik
; TITLE OF INVENTION: Genetically Modified Plants Comprising SARS-CoV Viral Nucleotide
; TITLE OF INVENTION: Sequences and Methods of Use Thereof for Immunization Against SA
; FILE REFERENCE: 2587/73166/RDX
; CURRENT APPLICATION NUMBER: US/11/004,399
; CURRENT FILING DATE: 2004-12-03
; PRIOR APPLICATION NUMBER: US 60/527,637
; PRIOR FILING DATE: 2003-12-03
; NUMBER OF SEQ ID NOS: 4043
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 3166
; LENGTH: 234
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: PCV2
US-11-004-399-3166

Query Match 72.1%; Score 31; DB 11; Length 234;
Best Local Similarity 77.8%; Pred. No. 66;
Matches 7; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 LFLNTLSFV 9
| | | | |
Db 99 LFLNRSSFV 107

RESULT 15
US-11-098-686-11055
; Sequence 11055, Application US/11098686
; Publication No. US20060024696A1
; GENERAL INFORMATION:
; APPLICANT: Kapur, Vivek and Gebhart, Connie J.
; TITLE OF INVENTION: NUCLEIC ACID AND POLYPEPTIDE SEQUENCES
; TITLE OF INVENTION: FROM LAWSONIA INTRACELLULARIS AND METHODS OF USING
; FILE REFERENCE: 09531-128001
; CURRENT APPLICATION NUMBER: US/11/098,686
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31318
; PRIOR FILING DATE: 2003-10-01
; PRIOR APPLICATION NUMBER: US 60/416,395
; PRIOR FILING DATE: 2002-10-04
; NUMBER OF SEQ ID NOS: 11433
; SOFTWARE: FastSeq for Windows version 4.0
; SEQ ID NO 11055
; LENGTH: 237
; TYPE: PRT
; ORGANISM: Lawsonia intracellularis
US-11-098-686-11055

Query Match 72.1%; Score 31; DB 11; Length 237;
Best Local Similarity 77.8%; Pred. No. 67;
Matches 7; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 LFLNTLSFV 9
| | | | |
Db 55 LFSNTLSFV 63

RESULT 16
US-10-793-626-2980
; Sequence 2980, Application US/10793626
; Publication No. US20050255478A1
; GENERAL INFORMATION:
; APPLICANT: KIMBERLY, WILLIAM JOHN
; TITLE OF INVENTION: STAPHYLOCOCCUS EPIDERMIDIS NUCLEIC ACIDS AND PROTEINS
; FILE REFERENCE: PUS48005
; CURRENT APPLICATION NUMBER: US/10/793,626
; CURRENT FILING DATE: 2004-03-04
; PRIOR APPLICATION NUMBER: 60/164,258
; PRIOR FILING DATE: 1999-11-09
; NUMBER OF SEQ ID NOS: 4472
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2980
; LENGTH: 302
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: synthetic
US-10-793-626-2980

Query Match 72.1%; Score 31; DB 9; Length 302;
Best Local Similarity 75.0%; Pred. No. 86;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 LFLNTLSFV 8
| | | | |
Db 293 LFLNALSY 300

RESULT 17
US-11-098-686-10937
; Sequence 10937, Application US/11098686
; Publication No. US20060024696A1
; GENERAL INFORMATION:
; APPLICANT: Kapur, Vivek and Gebhart, Connie J.
; TITLE OF INVENTION: NUCLEIC ACID AND POLYPEPTIDE SEQUENCES
; TITLE OF INVENTION: FROM LAWSONIA INTRACELLULARIS AND METHODS OF USING
; FILE REFERENCE: 09531-128001

;; CURRENT APPLICATION NUMBER: US/11/098,686
;; CURRENT FILING DATE: 2005-04-04
;; PRIOR APPLICATION NUMBER: PCT/US03/31318
;; PRIOR FILING DATE: 2003-10-01
;; PRIOR APPLICATION NUMBER: US 60/416,395
;; PRIOR FILING DATE: 2002-10-04
;; NUMBER OF SEQ ID NOS: 11433
;; SOFTWARE: FastSeq for Windows Version 4.0
;; SEQ ID NO 10937
;; LENGTH: 452
;; TYPE: PRT
;; ORGANISM: Lawsonia intracellularis
US-11-098-686-10937

Query Match 72.1%; Score 31; DB 11; Length 452;
Best Local Similarity 75.0%; Pred. No. 1.3e+02;
Matches 6; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 2 LFLNTLSFV 9
Db 180 FLSTLAFV 187

RESULT 18
US-10-511-989-175
;; Sequence 175, Application US/10511989
;; Publication No. US20060053496A1
;; GENERAL INFORMATION:
;; APPLICANT: University of North Carolina-Chapel Hill
;; APPLICANT: Ting, Jenny
;; APPLICANT: Linhoff, Michael
;; APPLICANT: Harton, Johnathan
;; APPLICANT: Williams, Kristi
;; APPLICANT: Lich, John
;; APPLICANT: O'Connor, William
;; APPLICANT: Moore, Christopher
;; APPLICANT: Davis, Beckley
;; APPLICANT: Brickey, W. Jane
;; APPLICANT: Conci, Brian
;; APPLICANT: Zhang, Jinghua
;; APPLICANT: Zhu, Xin-Sheng
;; TITLE OF INVENTION: CATERPILLER GENE FAMILY
;; FILE REFERENCE: 5470.368WO
;; CURRENT APPLICATION NUMBER: US/10/511,989
;; CURRENT FILING DATE: 2004-10-21
;; PRIOR APPLICATION NUMBER: US 60/376,626
;; PRIOR FILING DATE: 2002-04-30
;; NUMBER OF SEQ ID NOS: 186
;; SOFTWARE: PatentIn version 3.2
;; SEQ ID NO 175
;; LENGTH: 467
;; TYPE: PRT
;; ORGANISM: Homo sapiens
US-10-511-989-175

Query Match 72.1%; Score 31; DB 9; Length 467;
Best Local Similarity 75.0%; Pred. No. 1.4e+02;
Matches 6; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 1 LFLNTLSF 8
Db 274 LFLSTLNF 281

RESULT 19
US-11-188-298-19555
;; Sequence 19555, Application US/11188298
;; Publication No. US20060075522A1
;; GENERAL INFORMATION:
;; APPLICANT: Abad, Mark S. et al.
;; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
;; FILE REFERENCE: 38-21(53452)B
;; CURRENT APPLICATION NUMBER: US/11/188,298

;; CURRENT FILING DATE: 2005-07-22
;; PRIOR APPLICATION NUMBER: 60/592,978
;; PRIOR FILING DATE: 2004-07-31
;; NUMBER OF SEQ ID NOS: 22569
;; SEQ ID NO 19555
;; LENGTH: 534
;; TYPE: PRT
;; ORGANISM: Arabidopsis thaliana
US-11-188-298-19555

Query Match 72.1%; Score 31; DB 11; Length 534;
Best Local Similarity 75.0%; Pred. No. 1.6e+02;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 LFLNTLSF 8
Db 513 LFLQTMSF 520

RESULT 20
US-10-491-468-21
;; Sequence 21, Application US/10491468
;; Publication No. US20060051836A1
;; GENERAL INFORMATION:
;; APPLICANT: INCYTE CORPORATION; TANG, Y. Tom;
;; APPLICANT: FORSYTHE, Ian J.; EMERLING, Brooke M.;
;; APPLICANT: HAPALITA, April J.A.; YUE, Henry;
;; APPLICANT: XU, Yuning; GIETZEN, Kimberly J.;
;; APPLICANT: CHAWLA, Narinder K.; BAUGHN, Mariah R.;
;; APPLICANT: MARQUIS, Joseph P.; BECHA, Shanya D.;
;; APPLICANT: KABLE, Amy E.; LAL, Preeti G.;
;; APPLICANT: RICHARDSON, Thomas W.; LEE, Soo Y.;
;; APPLICANT: LEE, Ernestine A.; TRAN, Bao;
;; APPLICANT: WARREN, Bridget A.; LU, Dyung Alma M.;
;; APPLICANT: GURURAJAN, Rajagopal; SPRAGUE, William W.;
;; APPLICANT: BLAKE, Julie J.; THANAVADEU, Kavitha;
;; APPLICANT: SWARNAKAR, Anita; CORVAD, Ann E.;
;; APPLICANT: GRIFFIN, Jennifer A.; LINDQUIST, Brika A.;
;; APPLICANT: ELIOTT, Vicki S.; ISON, Craig H.;
;; APPLICANT: RAMKUMAR, Jayalaxmi
;; TITLE OF INVENTION: MOLECULES FOR DISEASE DETECTION AND TREATMENT
;; FILE REFERENCE: PP-1232 USN
;; CURRENT APPLICATION NUMBER: US/10/491,468
;; CURRENT FILING DATE: 2004-03-31
;; PRIOR APPLICATION NUMBER: PCT/US02/32852
;; PRIOR FILING DATE: 2002-10-10
;; PRIOR APPLICATION NUMBER: US 60/328,944
;; PRIOR FILING DATE: 2001-10-12
;; PRIOR APPLICATION NUMBER: US 60/345,384
;; PRIOR FILING DATE: 2001-10-26
;; PRIOR APPLICATION NUMBER: US 60/343,880
;; PRIOR FILING DATE: 2001-11-02
;; PRIOR APPLICATION NUMBER: US 60/345,143
;; PRIOR FILING DATE: 2001-11-09
;; PRIOR APPLICATION NUMBER: US 60/332,430
;; PRIOR FILING DATE: 2001-11-16
;; NUMBER OF SEQ ID NOS: 96
;; SOFTWARE: PERL Program
;; SEQ ID NO 21
;; LENGTH: 566
;; TYPE: PRT
;; ORGANISM: Homo sapiens
;; FEATURE:
;; NAME/KEY: misc_feature
;; OTHER INFORMATION: Incyte ID No: 5134056CD1
US-10-491-468-21

Query Match 72.1%; Score 31; DB 9; Length 566;
Best Local Similarity 85.7%; Pred. No. 1.7e+02;
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 LFLNTLS 7
:|||||

Db 233 IFPLNTLS 233

RESULT 21

US-10-895-064-2278
; Sequence 2278, Application US/10895064
; Publication No. US20060018923A1
; GENERAL INFORMATION:
; APPLICANT: PEIRIS, JOSEPH S.M.
; APPLICANT: YUEN, KWOK YUNG
; APPLICANT: POON, LIT MAN
; APPLICANT: GUAN, YI
; APPLICANT: CHAN, KWOK HUNG
; APPLICANT: NICHOLLS, JOHN M.
; APPLICANT: LEUNG, FREDERICK C.
; TITLE OF INVENTION: A NOVEL HUMAN VIRUS CAUSING RESPIRATORY TRACT INFECTION AND USES THEREOF
; FILE REFERENCE: V0690.0031
; CURRENT APPLICATION NUMBER: US/10/895,064
; CURRENT FILING DATE: 2004-07-21
; NUMBER OF SEQ ID NOS: 2918
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 2278
; LENGTH: 40
; TYPE: PRT
; ORGANISM: Corononavirus-HKU1
US-10-895-064-2278

Query Match

Best Local Similarity 69.8%; Score 30; DB 9; Length 40;
Best Local Similarity 55.6%; Pred. No. 16;
Matches 5; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 1 LPLNTLSFV 9

Db 1 LPLNTISIL 9

RESULT 22

US-11-129-741-2278
; Sequence 2278, Application US/11129741
; Publication No. US20060034853A1
; GENERAL INFORMATION:
; APPLICANT: YUEN, KWOK YUNG
; APPLICANT: MOO, CHIU YAT PATRICK
; APPLICANT: LAU, KAR PUT SUSANNA
; APPLICANT: CHAN, KWOK HUNG
; APPLICANT: PEIRIS, JOSEPH S.M.
; APPLICANT: POON, LIT MAN
; APPLICANT: GUAN, YI
; TITLE OF INVENTION: A NOVEL HUMAN VIRUS CAUSING RESPIRATORY TRACT INFECTION AND USES THEREOF
; FILE REFERENCE: V0690.0044
; CURRENT APPLICATION NUMBER: US/11/129,741
; CURRENT FILING DATE: 2005-05-16
; PRIOR APPLICATION NUMBER: 10/895,064
; PRIOR FILING DATE: 2004-07-21
; NUMBER OF SEQ ID NOS: 4257
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 2278
; LENGTH: 40
; TYPE: PRT
; ORGANISM: Corononavirus-HKU1
US-11-129-741-2278

Query Match

Best Local Similarity 69.8%; Score 30; DB 11; Length 40;
Best Local Similarity 55.6%; Pred. No. 16;
Matches 5; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 1 LPLNTLSFV 9

Db 1 LPLNTISIL 9

RESULT 23

US-11-096-568A-3886
; Sequence 3886, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
; APPLICANT: Alexandrov, Nikolai et al.
; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides I
; FILE REFERENCE: 2750-1592PUS2
; CURRENT APPLICATION NUMBER: US/11/096,568A
; CURRENT FILING DATE: 2005-04-01
; NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 3886
; LENGTH: 114
; TYPE: PRT
; ORGANISM: glycine max
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1)-(114)
; OTHER INFORMATION: Ceres Seq. ID no. 13594111
US-11-096-568A-3886

Query Match

Best Local Similarity 69.8%; Score 30; DB 11; Length 114;
Best Local Similarity 75.0%; Pred. No. 49;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 LPLNTLSFV 8

Db 95 LPLQTLTF 102

RESULT 24

US-11-079-463-6027
; Sequence 6027, Application US/11079463
; Publication No. US20060073161A1
; GENERAL INFORMATION:
; APPLICANT: Gary L. Breton
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO BACTERIOIDES FRAC
; FILE REFERENCE: PATH00-03DIV2
; CURRENT APPLICATION NUMBER: US/11/079,463
; CURRENT FILING DATE: 2005-03-14
; PRIOR APPLICATION NUMBER: US 60/128,705
; PRIOR FILING DATE: 1999-04-09
; PRIOR APPLICATION NUMBER: US 09/540,209
; PRIOR FILING DATE: 2000-04-04
; NUMBER OF SEQ ID NOS: 10444
; SEQ ID NO 6027
; LENGTH: 114
; TYPE: PRT
; ORGANISM: B.fragilis
US-11-079-463-6027

Query Match

Best Local Similarity 69.8%; Score 30; DB 11; Length 114;
Best Local Similarity 66.7%; Pred. No. 49;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 LPLNTLSFV 9

Db 98 LPLQTLTF 106

RESULT 25

US-11-096-568A-3885
; Sequence 3885, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
; APPLICANT: Alexandrov, Nikolai et al.
; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides I
; FILE REFERENCE: 2750-1592PUS2
; CURRENT APPLICATION NUMBER: US/11/096,568A
; CURRENT FILING DATE: 2005-04-01

NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 3885
; LENGTH: 172
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; NAME/KEY: misc.feature
; LOCATION: (1)-(172)
; OTHER INFORMATION: Ceres Seq. ID no. 13594110
US-11-096-568A-3885

Query Match
Best Local Similarity 69.8%; Score 30; DB 11; Length 172;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 LFLNTLSF 8
Db 153 LFLQTLTF 160

RESULT 26
US-11-096-568A-3884
; Sequence 3884, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
; APPLICANT: Alexandrov, Nikolai et al.
; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
; FILE REFERENCE: 2750-1592PUS2
; CURRENT APPLICATION NUMBER: US/11/096,568A
; CURRENT FILING DATE: 2005-04-01
; NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 3884
; LENGTH: 186
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; NAME/KEY: misc.feature
; LOCATION: (1)-(186)
; OTHER INFORMATION: Ceres Seq. ID no. 13594109
US-11-096-568A-3884

Query Match
Best Local Similarity 69.8%; Score 30; DB 11; Length 186;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 LFLNTLSF 8
Db 167 LFLQTLTF 174

RESULT 27
US-11-079-463-6795
; Sequence 6795, Application US/11079463
; Publication No. US20060073161A1
; GENERAL INFORMATION:
; APPLICANT: Gary L. Breton
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO BACTERIOIDES FRA
; FILE REFERENCE: PATH00-03DIV2
; CURRENT APPLICATION NUMBER: US/11/079,463
; CURRENT FILING DATE: 2005-03-14
; PRIOR APPLICATION NUMBER: US 60/128,705
; PRIOR FILING DATE: 1999-04-09
; PRIOR APPLICATION NUMBER: US 09/540,209
; PRIOR FILING DATE: 2000-04-04
; NUMBER OF SEQ ID NOS: 10444
; SEQ ID NO 6795
; LENGTH: 315
; TYPE: PRT
; ORGANISM: B.fragilis
US-11-079-463-6795

Query Match
Best Local Similarity 69.8%; Score 30; DB 11; Length 315;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 1 LFLNTLSFV 9
Db 299 VFLSLSFV 307

RESULT 28
US-10-194-487-174
; Sequence 174, Application US/10194487
; Publication No. US20060074226A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Chen, Jian
; APPLICANT: Deenoyers, Luc
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Pan, James
; APPLICANT: Smith, Victoria
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3430R1C312
; CURRENT APPLICATION NUMBER: US/10/194,487
; CURRENT FILING DATE: 2002-07-12
; PRIOR APPLICATION NUMBER: 10/052586
; PRIOR FILING DATE: 2002-01-15
; PRIOR APPLICATION NUMBER: 60/059263
; PRIOR FILING DATE: 1997-09-18
; PRIOR APPLICATION NUMBER: 60/059266
; PRIOR FILING DATE: 1997-09-18
; PRIOR APPLICATION NUMBER: 60/062250
; PRIOR FILING DATE: 1997-10-17
; PRIOR APPLICATION NUMBER: 60/063120
; PRIOR FILING DATE: 1997-10-24
; PRIOR APPLICATION NUMBER: 60/063121
; PRIOR FILING DATE: 1997-10-24
; PRIOR APPLICATION NUMBER: 60/063486
; PRIOR FILING DATE: 1997-10-21
; PRIOR APPLICATION NUMBER: 60/063540
; PRIOR FILING DATE: 1997-10-28
; PRIOR APPLICATION NUMBER: 60/063541
; PRIOR FILING DATE: 1997-10-28
; PRIOR APPLICATION NUMBER: 60/063544
; PRIOR FILING DATE: 1997-10-28
; PRIOR Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 612
; SEQ ID NO 174
; LENGTH: 335
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-194-487-174

Query Match
Best Local Similarity 66.7%; Score 30; DB 9; Length 335;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 1 LFLNTLSFV 9
Db 1 MFLNTLSFV 9

RESULT 29
US-10-195-883-174
; Sequence 174, Application US/10195883
; Publication No. US20060073544A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.

```
APPLICANT: Chen,Jian
APPLICANT: Desnoyers, Luc
APPLICANT: Goddard,Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Gurney,Austin L.
APPLICANT: Pan,James
APPLICANT: Smith,Victoria
APPLICANT: Watanabe,Colin K.
APPLICANT: Wood,William I.
APPLICANT: Zhang,Zemin
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
FILE REFERENCE: P3430R1C323
CURRENT FILING DATE: 2002-07-15
Prior Application removed - See File Wrapper or Palm
NUMBER OF SEQ ID NOS: 612
SEQ ID NO 174
LENGTH: 335
TYPE: PRT
ORGANISM: Homo Sapien
US-10-195-883-174
```

```
Query Match 69.8%; Score 30; DB 9; Length 335;
Best Local Similarity 66.7%; Pred. No. 1.5e+02;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;
```

```
QY 1 LFLNTLSFV 9
DB 1 MFLATLSFL 9
```

```
RESULT 30
US-10-195-888-174
```

```
Sequence 174, Application US/10195888
GENERAL INFORMATION:
APPLICANT: Baker, Kevin P.
APPLICANT: Chen, Jian
APPLICANT: Desnoyers, Luc
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Gurney, Austin L.
APPLICANT: Pan, James
APPLICANT: Smith, Victoria
APPLICANT: Watanabe, Colin K.
APPLICANT: Wood, William I.
APPLICANT: Zhang, Zemin
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
FILE REFERENCE: P3430R1C324
CURRENT FILING DATE: 2002-07-15
Prior Application removed - See File Wrapper or Palm
NUMBER OF SEQ ID NOS: 612
SEQ ID NO 174
LENGTH: 335
TYPE: PRT
ORGANISM: Homo Sapien
US-10-195-888-174
```

```
Query Match 69.8%; Score 30; DB 9; Length 335;
Best Local Similarity 66.7%; Pred. No. 1.5e+02;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;
```

```
QY 1 LFLNTLSFV 9
DB 1 MFLATLSFL 9
```

```
RESULT 31
US-10-195-889-174
Sequence 174, Application US/10195889
```

```
Publication No. US20060074227A1
GENERAL INFORMATION:
APPLICANT: Baker, Kevin P.
APPLICANT: Chen, Jian
APPLICANT: Desnoyers, Luc
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Gurney, Austin L.
APPLICANT: Pan, James
APPLICANT: Smith, Victoria
APPLICANT: Watanabe, Colin K.
APPLICANT: Wood, William I.
APPLICANT: Zhang, Zemin
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
FILE REFERENCE: P3430R1C329
CURRENT FILING DATE: 2002-07-15
Prior Application removed - See File Wrapper or Palm
NUMBER OF SEQ ID NOS: 612
SEQ ID NO 174
LENGTH: 335
TYPE: PRT
ORGANISM: Homo Sapien
US-10-195-889-174
```

```
Query Match 69.8%; Score 30; DB 9; Length 335;
Best Local Similarity 66.7%; Pred. No. 1.5e+02;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;
```

```
QY 1 LFLNTLSFV 9
DB 1 MFLATLSFL 9
```

```
RESULT 32
US-11-090-729-2
```

```
Sequence 2, Application US/11090729
GENERAL INFORMATION:
APPLICANT: BAKER, KEVIN P.
APPLICANT: CHEN, JIAN
APPLICANT: DESNOYERS, LUC
APPLICANT: GODDARD, AUDREY
APPLICANT: GODOWSKI, PAUL J.
APPLICANT: GURNEY, AUSTIN L.
APPLICANT: PAN, JAMES
APPLICANT: SMITH, VICTORIA
APPLICANT: WATANABE, COLIN K.
APPLICANT: WOOD, WILLIAM I.
APPLICANT: ZHANG, ZEMIN
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES
FILE REFERENCE: 39780-3430R1C11C1.
CURRENT FILING DATE: 2005-03-25
Prior Application Number: US 10/090,729
CURRENT FILING DATE: 2005-03-25
Prior Application Number: US 10/176,751
Prior Filing Date: 2002-06-21
Prior Application Number: US 10/052,586
Prior Filing Date: 2002-01-15
Prior Application Number: PCT/US01/06520
Prior Filing Date: 2001-02-28
Prior Application Number: US 09/403,297
Prior Filing Date: 1999-10-18
Prior Application Number: PCT/US99/20111
Prior Filing Date: 1999-09-01
Prior Application Number: US 60/101,068
Prior Filing Date: 1998-09-18
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 2
LENGTH: 335
TYPE: PRT
```

ORGANISM: Homo sapiens
US-11-090-729-2

Query Match 69.8%; Score 30; DB 11; Length 335;
Best Local Similarity 66.7%; Pred. No. 1.5e+02;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 1 LPLNTLSFV 9
:|||||:
Db 1 MPLATLSFL 9

RESULT 33

US-11-045-004-1301
Sequence 1301, Application US/11045004
Publication No. US20060078901A1
GENERAL INFORMATION:
APPLICANT: BUCHRIESER, CARMEN
APPLICANT: FRANGEUL, LIONEL
APPLICANT: COUVE, ELISABETH
APPLICANT: RUSNIOK, CHRISTOPHE
APPLICANT: FSIHI, HAÏDA
APPLICANT: DEHOUX, PIERRE
APPLICANT: DUSSEURGET, OLIVIER
APPLICANT: CHETOUANI, FARID
APPLICANT: NEDJARI, HAFED
APPLICANT: GLASER, PHILIPPE
APPLICANT: KUNST, FRANCK
APPLICANT: COSSART, PASCALE
APPLICANT: DANIELS, JUSTIN
APPLICANT: GOEBEL, WERNER
APPLICANT: KREFT, JURGEN
APPLICANT: KUHN, MICHAEL
APPLICANT: NG, EVA
APPLICANT: VAZQUEZ-BOLAND, ANTONIO
APPLICANT: DOMINGUEZ-BERNAL, GUSTAVO
APPLICANT: GARRIDO-GARCIA, PATRICIA
APPLICANT: TIERREZ-MARTINEZ, ALBERTO
APPLICANT: AMEND, ALEXANDRA
APPLICANT: CHAKRABORTY, TRINAD
APPLICANT: DOMANN, EUGEN
APPLICANT: HAIN, THORSTEN
APPLICANT: BERCHE, PATRICK
APPLICANT: CHARBIT, ALAIN
APPLICANT: DURANT, LIONEL
APPLICANT: PEREZ-DIAZ, JOSE-CLAUDIO
APPLICANT: BAQUERO, FERNANDO
APPLICANT: GARCIA DEL PORTILLO, FRANCISCO
APPLICANT: GOMEZ-LOPEZ, NURIA
APPLICANT: MADUENIO, ENCARNACION
APPLICANT: PABLOS, BETRIZ DE
APPLICANT: WEHLAND, JURGEN
APPLICANT: KARST, UWE
APPLICANT: ENTIAN, KARL-DIETER
APPLICANT: HAUF, JORG
APPLICANT: ROSE, MATTHIAS
APPLICANT: VOSS, HAMTT
TITLE OF INVENTION: LISTERIA MONOCYTOGENES GENOME, POLYPEPTIDES AND USES
FILE REFERENCE: 05394, 0018-02
CURRENT APPLICATION NUMBER: US/11/045, 004
CURRENT FILING DATE: 2005-01-28
PRIOR APPLICATION NUMBER: 10/637, 657
PRIOR FILING DATE: 2003-08-11
PRIOR APPLICATION NUMBER: 10/257, 023
PRIOR FILING DATE: 2002-10-08
PRIOR APPLICATION NUMBER: PCT/FR01/01118
PRIOR FILING DATE: 2001-04-11
PRIOR APPLICATION NUMBER: FR 00/04, 629
PRIOR FILING DATE: 2000-04-11
NUMBER OF SEQ ID NOS: 2854
SOFTWARE: PatentIn version 3.3
SEQ ID NO 1301
LENGTH: 351

TYPE: PRT
ORGANISM: Listeria monocytogenes
US-11-045-004-1301

Query Match 69.8%; Score 30; DB 11; Length 351;
Best Local Similarity 75.0%; Pred. No. 1.6e+02;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 2 PLNTLSFV 9
:|||||:
Db 195 YLNKLSFV 202

RESULT 34

US-11-087-099-7140
Sequence 7140, Application US/11087099
Publication No. US20060041961A1
GENERAL INFORMATION:
APPLICANT: Abad, Mark S. et al.
TITLE OF INVENTION: Genes and Uses for Plant Improvement
FILE REFERENCE: 38-21(53450)B EP
CURRENT APPLICATION NUMBER: US/11/087, 099
CURRENT FILING DATE: 2005-03-22
NUMBER OF SEQ ID NOS: 12464
SEQ ID NO 7140
LENGTH: 465
TYPE: PRT
ORGANISM: Lycopersicon esculentum
US-11-087-099-7140

Query Match 69.8%; Score 30; DB 11; Length 465;
Best Local Similarity 66.7%; Pred. No. 2.1e+02;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 1 LPLNTLSFV 9
:|||||:
Db 427 IWLNTLSFV 435

RESULT 35

US-11-188-298-5495
Sequence 5495, Application US/11188298
Publication No. US20060075522A1
GENERAL INFORMATION:
APPLICANT: Abad, Mark S. et al.
TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
FILE REFERENCE: 38-21(53452)B
CURRENT APPLICATION NUMBER: US/11/188, 298
CURRENT FILING DATE: 2005-07-22
PRIOR APPLICATION NUMBER: 60/592, 978
PRIOR FILING DATE: 2004-07-31
NUMBER OF SEQ ID NOS: 22569
SEQ ID NO 5495
LENGTH: 465
TYPE: PRT
ORGANISM: Lycopersicon esculentum
US-11-188-298-5495

Query Match 69.8%; Score 30; DB 11; Length 465;
Best Local Similarity 66.7%; Pred. No. 2.1e+02;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 1 LPLNTLSFV 9
:|||||:
Db 427 IWLNTLSFV 435

RESULT 36

US-11-188-298-1441
Sequence 1441, Application US/11188298
Publication No. US20060075522A1
GENERAL INFORMATION:
APPLICANT: Abad, Mark S. et al.

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; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
; FILE REFERENCE: 38-21(53452)B
; CURRENT APPLICATION NUMBER: US/11/188,298
; CURRENT FILING DATE: 2005-07-22
; PRIOR APPLICATION NUMBER: 60/592,978
; PRIOR FILING DATE: 2004-07-31
; NUMBER OF SEQ ID NOS: 22569
; SEQ ID NO 1441
; LENGTH: 515
; TYPE: PRT
; ORGANISM: Agrobacterium tumefaciens str. C58
US-11-188-298-1441

Query Match
Best Local Similarity 69.8%; Score 30; DB 11; Length 515;
Best Local Similarity 75.0%; Pred. No. 2.4e+02;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 LPLNTLSF 8
Db 107 LYLNTLTF 114

RESULT 37
US-11-188-298-1538
; Sequence 1538, Application US/11188298
; Publication No. US20060075522A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
; FILE REFERENCE: 38-21(53452)B
; CURRENT APPLICATION NUMBER: US/11/188,298
; CURRENT FILING DATE: 2005-07-22
; PRIOR APPLICATION NUMBER: 60/592,978
; PRIOR FILING DATE: 2004-07-31
; NUMBER OF SEQ ID NOS: 22569
; SEQ ID NO 1538
; LENGTH: 543
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)..(543)
; OTHER INFORMATION: unsure at all Xaa locations
US-11-188-298-1538

Query Match
Best Local Similarity 69.8%; Score 30; DB 11; Length 543;
Best Local Similarity 75.0%; Pred. No. 2.5e+02;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 LPLNTLSF 8
Db 524 LFLQTLTF 531

RESULT 38
US-11-188-298-4208
; Sequence 4208, Application US/11188298
; Publication No. US20060075522A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
; FILE REFERENCE: 38-21(53452)B
; CURRENT APPLICATION NUMBER: US/11/188,298
; CURRENT FILING DATE: 2005-07-22
; PRIOR APPLICATION NUMBER: 60/592,978
; PRIOR FILING DATE: 2004-07-31
; NUMBER OF SEQ ID NOS: 22569
; SEQ ID NO 4208
; LENGTH: 543
; TYPE: PRT
; ORGANISM: Glycine max
US-11-188-298-4208

```

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Query Match
Best Local Similarity 69.8%; Score 30; DB 11; Length 543;
Best Local Similarity 75.0%; Pred. No. 2.5e+02;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 LPLNTLSF 8
Db 524 LFLQTLTF 531

RESULT 39
US-11-188-298-19512
; Sequence 19512, Application US/11188298
; Publication No. US20060075522A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
; FILE REFERENCE: 38-21(53452)B
; CURRENT APPLICATION NUMBER: US/11/188,298
; CURRENT FILING DATE: 2005-07-22
; PRIOR APPLICATION NUMBER: 60/592,978
; PRIOR FILING DATE: 2004-07-31
; NUMBER OF SEQ ID NOS: 22569
; SEQ ID NO 19512
; LENGTH: 543
; TYPE: PRT
; ORGANISM: Glycine max
US-11-188-298-19512

Query Match
Best Local Similarity 69.8%; Score 30; DB 11; Length 543;
Best Local Similarity 75.0%; Pred. No. 2.5e+02;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 LPLNTLSF 8
Db 524 LFLQTLTF 531

RESULT 40
US-11-096-568A-33313
; Sequence 33313, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
; APPLICANT: Alexandrov, Nickolai et al.
; TITLE OF INVENTION: Sequence-determined DNA Fragments and Corresponding Polypeptides
; FILE REFERENCE: 2750-1592POS2
; CURRENT APPLICATION NUMBER: US/11/096,568A
; CURRENT FILING DATE: 2005-04-01
; NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 33313
; LENGTH: 559
; TYPE: PRT
; ORGANISM: Arabidopsis thaliana
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1)..(559)
; OTHER INFORMATION: Ceres Seq. ID no. 13602719
US-11-096-568A-33313

Query Match
Best Local Similarity 69.8%; Score 30; DB 11; Length 559;
Best Local Similarity 87.5%; Pred. No. 2.6e+02;
Matches 7; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 LPLNTLSF 8
Db 32 LPLNTLSF 39

RESULT 41
US-11-188-298-2327
; Sequence 2327, Application US/11188298
; Publication No. US20060075522A1
; GENERAL INFORMATION:

```

APPLICANT: Abad, Mark S. et al.
TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
FILE REFERENCE: 38-21(53452)B
CURRENT APPLICATION NUMBER: US/11/188,298
CURRENT FILING DATE: 2005-07-22
PRIOR APPLICATION NUMBER: 60/592,978
PRIOR FILING DATE: 2004-07-31
NUMBER OF SEQ ID NOS: 22569
SEQ ID NO 2327
LENGTH: 645
TYPE: PRT
ORGANISM: Agrobacterium tumefaciens str. C58
US-11-188-298-2327

Query Match 69.8%; Score 30; DB 11; Length 645;
Best Local Similarity 75.0%; Pred. No. 3e+02;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 LFLNTLSF 8
Db 237 LFLNTLSF 244

RESULT 42
US-11-079-463-8511
Sequence 8511, Application US/11079463
Publication No. US20060073161A1
GENERAL INFORMATION:
APPLICANT: Gary L. Breton
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO BACTERIOIDES FRA
FILE REFERENCE: PAT00-03DIV2
CURRENT APPLICATION NUMBER: US/11/079,463
CURRENT FILING DATE: 2005-03-14
PRIOR APPLICATION NUMBER: US 60/128,705
PRIOR FILING DATE: 1999-04-09
PRIOR APPLICATION NUMBER: US 09/540,209
PRIOR FILING DATE: 2000-04-04
NUMBER OF SEQ ID NOS: 10444
SEQ ID NO 8511
LENGTH: 646
TYPE: PRT
ORGANISM: B. fragilis
US-11-079-463-8511

Query Match 69.8%; Score 30; DB 11; Length 646;
Best Local Similarity 62.5%; Pred. No. 3e+02;
Matches 5; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY 1 LFLNTLSF 8
Db 48 LFLNTLSF 55

RESULT 43
US-11-045-004-2524
Sequence 2524, Application US/11045004
Publication No. US20060078901A1
GENERAL INFORMATION:
APPLICANT: BUCHRIEISER, CARMEN
APPLICANT: FRANGEUL, LIONEL
APPLICANT: COUVE, ELISABETH
APPLICANT: RUSNIOK, CHRISTOPHE
APPLICANT: PSIH, HAFIDA
APPLICANT: DEHOUC, PIERRE
APPLICANT: DUSOURGET, OLIVIER
APPLICANT: CHEROUANI, FARID
APPLICANT: NEDJARI, HAFED
APPLICANT: GLASER, PHILIPPE
APPLICANT: KUNST, FRANCK
APPLICANT: COSSART, PASCAL
APPLICANT: DANIELS, JUSTIN
APPLICANT: GOEBEL, WERNER

APPLICANT: KREFT, JURGEN
APPLICANT: KUHN, MICHAEL
APPLICANT: NG, EVA
APPLICANT: VAZQUEZ-BOLAND, ANTONIO
APPLICANT: DOMINGUEZ-BERNAL, GUSTAVO
APPLICANT: GARRIDO-GARCIA, PATRICIA
APPLICANT: TIERREZ-MARTINEZ, ALBERTO
APPLICANT: AMEND, ALEXANDRA
APPLICANT: CHAKRABORTY, TRINAD
APPLICANT: DOMANN, EUGEN
APPLICANT: HAIN, THORSTEN
APPLICANT: BERCHE, PATRICK
APPLICANT: CHARBIT, ALAIN
APPLICANT: DURANT, LIONEL
APPLICANT: PEREZ-DIAZ, JOSE-CLAUDIO
APPLICANT: BAQUERO, FERNANDO
APPLICANT: GARCIA DEL PORTILLO, FRANCISCO
APPLICANT: GOMEZ-LOPEZ, NURIA
APPLICANT: MADUENIO, ENCARN
APPLICANT: PABLOS, BETRIZ DE
APPLICANT: WEHLAND, JURGEN
APPLICANT: KARST, UWE
APPLICANT: ENTIAN, KARL-DIETER
APPLICANT: HAUF, JORG
APPLICANT: ROSE, MATTHIAS
APPLICANT: VOSS, HAMUT
TITLE OF INVENTION: LISTERIA MONOCYTOGENES GENOME, POLYPEPTIDES AND USES
FILE REFERENCE: 05394.0018-02
CURRENT APPLICATION NUMBER: US/11/045,004
CURRENT FILING DATE: 2005-01-28
PRIOR APPLICATION NUMBER: 10/637,657
PRIOR FILING DATE: 2003-08-11
PRIOR APPLICATION NUMBER: 10/257,023
PRIOR FILING DATE: 2002-10-08
PRIOR APPLICATION NUMBER: PCT/FR01/01118
PRIOR FILING DATE: 2001-04-11
PRIOR APPLICATION NUMBER: FR 00/04,629
PRIOR FILING DATE: 2000-04-11
NUMBER OF SEQ ID NOS: 2854
SOFTWARE: PatentIn version 3.3
SEQ ID NO 2524
LENGTH: 659
TYPE: PRT
ORGANISM: Listeria monocytogenes
US-11-045-004-2524

Query Match 69.8%; Score 30; DB 11; Length 659;
Best Local Similarity 85.7%; Pred. No. 3.1e+02;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2 FLNTLSF 8
Db 134 FLNTLSF 140

RESULT 44
US-11-096-568A-31861
Sequence 31861, Application US/11096568A
Publication No. US20060048240A1
GENERAL INFORMATION:
APPLICANT: Alexandrov, Nickolai et al.
TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
FILE REFERENCE: 2750-1592PUS2
CURRENT APPLICATION NUMBER: US/11/096,568A
CURRENT FILING DATE: 2005-04-01
NUMBER OF SEQ ID NOS: 34471
SEQ ID NO 31861
LENGTH: 798
TYPE: PRT
ORGANISM: Arabidopsis thaliana
FEATURE:
NAME/KEY: misc_feature

LOCATION: (1)..(798)
OTHER INFORMATION: Ceres Seq. ID no. 13591499
US-11-096-568A-31861

Query Match 69.8%; Score 30; DB 11; Length 798;
Best Local Similarity 85.7%; Pred. No. 3.8e+02;
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

OY 1 LFLNTLS 7
Db 20 LFLNTLS 26

RESULT 45
US-10-216-161A-375
Sequence 375, Application US/10216161A
Publication No. US20060078964A1
GENERAL INFORMATION:
APPLICANT: Ashkenazi, Avi
APPLICANT: Baker Kevin P.
APPLICANT: Botstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan
APPLICANT: Ferrara, Napoleon
APPLICANT: Filvaroff, Ellen
APPLICANT: Fong, Sherman
APPLICANT: Gao, Wei-Qiang
APPLICANT: Gerber, Hanspeter
APPLICANT: Gerltzen, Mary E.
APPLICANT: Goddard, Audrey J.
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, J. Christopher
APPLICANT: Gurney, Austin L.
APPLICANT: Hillan, Kenneth J.
APPLICANT: Kijavlin, Ivar J.
APPLICANT: Kuo, Sophia S.
APPLICANT: Napier, Mary A.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Shelton, David L.
APPLICANT: Stewart, Timothy A.
APPLICANT: Tuma, Daniel
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
Acids
FILE REFERENCE: P2630P1C91
CURRENT FILING DATE: 2002-11-19
PRIOR APPLICATION NUMBER: US/10/216,161A
PRIOR FILING DATE: 2001-07-30
PRIOR APPLICATION NUMBER: PCT/US00/04341
PRIOR FILING DATE: 2000-02-18
PRIOR APPLICATION NUMBER: PCT/US99/05028
PRIOR FILING DATE: 1999-03-08
PRIOR APPLICATION NUMBER: US 09/380,138
PRIOR FILING DATE: 1999-08-25
PRIOR APPLICATION NUMBER: 60/126,773
PRIOR FILING DATE: 1999-03-29
PRIOR APPLICATION NUMBER: 60/081,955
PRIOR FILING DATE: 1998-04-15
NUMBER OF SEQ ID NOS: 624
SEQ ID NO 375
LENGTH: 816
TYPE: PRT
ORGANISM: Homo sapiens
US-10-216-161A-375

Query Match 69.8%; Score 30; DB 9; Length 816;
Best Local Similarity 75.0%; Pred. No. 3.8e+02;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

OY 1 LFLNTLSF 8
Db 686 LFLNTLSF 693

RESULT 46
US-11-264-096-1051
Sequence 1051, Application US/11264096
Publication No. US20060084794A1
GENERAL INFORMATION:
APPLICANT: Rosen et al.
TITLE OF INVENTION: Albumin Fusion Proteins
FILE REFERENCE: P5546D1
CURRENT APPLICATION NUMBER: US/11/264,096
CURRENT FILING DATE: 2005-11-02
PRIOR APPLICATION NUMBER: 09/833,245
PRIOR FILING DATE: 2001-04-12
PRIOR APPLICATION NUMBER: 60/229,358
PRIOR FILING DATE: 2000-04-12
PRIOR APPLICATION NUMBER: 60/256,931
PRIOR FILING DATE: 2000-12-21
PRIOR APPLICATION NUMBER: 60/199,384
PRIOR FILING DATE: 2000-04-25
NUMBER OF SEQ ID NOS: 2267
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 1051
LENGTH: 63
TYPE: PRT
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: SITE
LOCATION: (54)
OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
US-11-264-096-1051

Query Match 67.4%; Score 29; DB 11; Length 63;
Best Local Similarity 85.7%; Pred. No. 42;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 2 LFLNTLSF 8
Db 10 LFLNTLSF 16

RESULT 47
US-11-264-096-1052
Sequence 1052, Application US/11264096
Publication No. US20060084794A1
GENERAL INFORMATION:
APPLICANT: Rosen et al.
TITLE OF INVENTION: Albumin Fusion Proteins
FILE REFERENCE: P5546D1
CURRENT APPLICATION NUMBER: US/11/264,096
CURRENT FILING DATE: 2005-11-02
PRIOR APPLICATION NUMBER: 09/833,245
PRIOR FILING DATE: 2001-04-12
PRIOR APPLICATION NUMBER: 60/229,358
PRIOR FILING DATE: 2000-04-12
PRIOR APPLICATION NUMBER: 60/256,931
PRIOR FILING DATE: 2000-12-21
PRIOR APPLICATION NUMBER: 60/199,384
PRIOR FILING DATE: 2000-04-25
NUMBER OF SEQ ID NOS: 2267
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 1052
LENGTH: 63
TYPE: PRT
ORGANISM: Homo sapiens
US-11-264-096-1052

Query Match 67.4%; Score 29; DB 11; Length 63;
Best Local Similarity 85.7%; Pred. No. 42;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2 FLNTLSF 8
Db 10 FLNTLSF 16

RESULT 48

US-11-072-512-2869
; Sequence 2869, Application US/11072512
; Publication No. US200602945A1
; GENERAL INFORMATION:
; APPLICANT: ISOGAI, TAKAO
; APPLICANT: SUGIYAMA, TOMOYASU
; APPLICANT: OTSUKI, TETSUJI
; APPLICANT: WAKAMATSU, AI
; APPLICANT: SATO, HIROYUKI
; APPLICANT: ISHII, SHIZUKO
; APPLICANT: YAMAMOTO, JUN-ICHI
; APPLICANT: ISONO, YUUKO
; APPLICANT: HTO, YURI
; APPLICANT: OTSUKA, KAORU
; APPLICANT: NAGAI, KEIICHI
; APPLICANT: IRIE, RYOTARO
; APPLICANT: TAMECHIKA, ICHIRO
; APPLICANT: SEKI, NAOHITO
; APPLICANT: YOSHIKAWA, TSUTOMU
; APPLICANT: OTSUKA, MOTOTYUKI
; APPLICANT: NAGAHARI, KENJI
; APPLICANT: MASUHO, YASUHIRO
; TITLE OF INVENTION: Novel full length cDNA
; FILE REFERENCE: 084335-0191
; CURRENT APPLICATION NUMBER: US/11/072,512
; CURRENT FILING DATE: 2005-03-07
; PRIOR APPLICATION NUMBER: US 60/350,978
; PRIOR FILING DATE: 2002-01-25
; PRIOR APPLICATION NUMBER: JP 2001-379298
; PRIOR FILING DATE: 2001-11-05
; NUMBER OF SEQ ID NOS: 4096
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2869
; LENGTH: 100
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-072-512-2869

Query Match 67.4%; Score 29; DB 11; Length 100;
Best Local Similarity 62.5%; Pred. No. 67;
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 2 FLNTLSF 9
Db 43 FYNTITFV 50

RESULT 49
US-10-530-253-38
; Sequence 38, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Cassecci, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1

; SEQ ID NO 38
; LENGTH: 110
; TYPE: PRT
; ORGANISM: Human papillomavirus type 68
US-10-530-253-38

Query Match 67.4%; Score 29; DB 9; Length 110;
Best Local Similarity 55.6%; Pred. No. 75;
Matches 5; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY 1 LFNTLSFV 9
Db 93 LFMSDLNFFV 101

RESULT 50
US-10-467-657-4734
; Sequence 4734, Application US/10467657
; Publication No. US20050260581A1
; GENERAL INFORMATION:
; APPLICANT: CHIRON SpA
; APPLICANT: FONTANA Maria Rita
; APPLICANT: PIZZA Mariagrazia
; APPLICANT: MASIGNANI Vega
; APPLICANT: MONACI Elisabetta
; TITLE OF INVENTION: GONOCOCCAL PROTEINS AND NUCLEIC ACIDS
; FILE REFERENCE:
; CURRENT APPLICATION NUMBER: US/10/467,657
; CURRENT FILING DATE: 2003-08-11
; PRIOR APPLICATION NUMBER: GB-0103424.8
; PRIOR FILING DATE: 2001-02-12
; NUMBER OF SEQ ID NOS: 9218
; SOFTWARE: Seqwin99, version 1.04
; SEQ ID NO 4734
; LENGTH: 111
; TYPE: PRT
; ORGANISM: Neisseria gonorrhoeae
US-10-467-657-4734

Query Match 67.4%; Score 29; DB 9; Length 111;
Best Local Similarity 55.6%; Pred. No. 75;
Matches 5; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 1 LFNTLSFV 9
Db 73 IFNSVREV 81

Search completed: May 5, 2006, 07:45:39
Job time : 20.4 secs

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OM protein - protein search, using sw model

Run on: May 5, 2006, 04:01:20 ; Search time 20.7 Seconds
(without alignments)
35.946 Million cell updates/sec

Title: US-08-170-344-34
Perfect score: 58
Sequence: 1 LSFVCPWCA 9

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 572060 seqs, 82675679 residues

Total number of hits satisfying chosen parameters: 572060

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 1000 summaries

Database :
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3: /cgn2_6/ptodata/1/iaa/H_COMB.pep:*
4: /cgn2_6/ptodata/1/iaa/PTUS_COMB.pep:*
5: /cgn2_6/ptodata/1/iaa/RR_COMB.pep:*
6: /cgn2_6/ptodata/1/iaa/backfile1.pep:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	58	100.0	29	US-08-934-915-66	Sequence 66, App1
2	58	100.0	227	US-09-485-885-16	Sequence 16, App1
3	58	100.0	227	US-09-485-885-19	Sequence 19, App1
4	58	100.0	272	US-08-117-083-13	Sequence 13, App1
5	58	100.0	383	US-09-485-885-23	Sequence 23, App1
6	44	75.9	21	US-09-227-357-444	Sequence 44, App
7	44	75.9	21	US-09-973-278-572	Sequence 572, App
8	44	75.9	149	US-09-227-357-443	Sequence 443, App
9	44	75.9	149	US-09-973-278-571	Sequence 571, App
10	43	74.1	206	US-09-902-540-11760	Sequence 11760, A
11	41	70.7	292	US-09-323-872A-35	Sequence 37, App1
12	41	70.7	292	US-09-072-433-37	Sequence 37, App1
13	40	69.0	119	US-09-252-991A-24123	Sequence 24123, A
14	40	69.0	351	US-09-489-039A-7442	Sequence 7442, App
15	38.5	66.4	327	US-09-252-991A-30618	Sequence 30618, A
16	38	65.5	13	US-09-099-631A-4	Sequence 4, App1
17	38	65.5	140	US-09-248-796A-16891	Sequence 16891, A
18	37	63.8	37	US-09-205-258-447	Sequence 447, App
19	37	63.8	37	US-10-004-860-447	Sequence 447, App
20	37	63.8	81	US-09-621-976-7707	Sequence 7707, App
21	37	63.8	215	US-09-949-016-9485	Sequence 9485, App
22	37	63.8	238	US-09-252-991A-23069	Sequence 23069, A
23	37	63.8	258	US-09-583-110-4107	Sequence 4107, App
24	37	63.8	263	US-09-252-991A-19436	Sequence 19436, A
25	37	63.8	263	US-09-107-433-2968	Sequence 2968, App
26	37	63.8	323	US-09-543-681A-7304	Sequence 7304, App
27	37	63.8	344	US-08-818-112-69	Sequence 69, App1

28	37	63.8	344	US-08-818-111-70	Sequence 70, App1
29	37	63.8	344	US-09-056-556-69	Sequence 69, App1
30	37	63.8	344	US-09-072-596-70	Sequence 70, App1
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33	37	63.8	344	US-10-193-002-70	Sequence 70, App1
34	37	63.8	344	US-10-084-843-69	Sequence 69, App1
35	37	63.8	652	US-08-050-684-2	Sequence 2, App1
36	37	63.8	652	US-08-582-719-2	Sequence 2, App1
37	37	63.8	753	US-08-712-241-3	Sequence 3, App1
38	37	63.8	753	US-08-026-143B-3	Sequence 3, App1
39	37	63.8	753	PCT-US92-10621-3	Sequence 3, App1
40	37	63.8	753	PCT-US94-02233-3	Sequence 3, App1
41	36	62.1	45	US-09-270-767-33573	Sequence 33573, A
42	36	62.1	45	US-09-270-767-48790	Sequence 48790, A
43	36	62.1	45	US-09-270-767-35062	Sequence 35062, A
44	36	62.1	49	US-09-270-767-35062	Sequence 50279, A
45	36	62.1	54	US-09-270-767-50279	Sequence 530, App
46	36	62.1	67	US-09-732-210-930	Sequence 86, App1
47	36	62.1	67	US-08-461-598-86	Sequence 86, App1
48	36	62.1	67	US-08-322-137-86	Sequence 86, App1
49	36	62.1	157	US-09-252-991A-32848	Sequence 32848, A
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51	36	62.1	172	US-09-134-000C-4129	Sequence 4129, App
52	36	62.1	296	US-09-252-991A-20466	Sequence 20466, A
53	36	62.1	305	US-09-489-039A-7371	Sequence 7371, App
54	36	62.1	311	US-09-248-796A-24157	Sequence 24157, A
55	36	62.1	315	US-09-148-545-201	Sequence 201, App
56	36	62.1	315	US-09-148-545-254	Sequence 254, App
57	36	62.1	315	US-09-621-011-201	Sequence 201, App
58	36	62.1	315	US-09-621-011-254	Sequence 254, App
59	36	62.1	349	US-09-999-833A-472	Sequence 472, App
60	36	62.1	349	US-10-020-445A-472	Sequence 472, App
61	36	62.1	362	US-09-442-349A-109	Sequence 109, App
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66	36	62.1	374	US-09-442-349A-2	Sequence 2, App1
67	36	62.1	374	US-09-442-349A-3	Sequence 3, App1
68	36	62.1	374	US-09-442-349A-4	Sequence 4, App1
69	36	62.1	374	US-09-442-349A-5	Sequence 5, App1
70	36	62.1	374	US-09-442-349A-6	Sequence 6, App1
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78	36	62.1	374	US-09-442-349A-14	Sequence 14, App1
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80	36	62.1	374	US-09-442-349A-16	Sequence 16, App1
81	36	62.1	374	US-09-442-349A-17	Sequence 17, App1
82	36	62.1	374	US-09-442-349A-18	Sequence 18, App1
83	36	62.1	374	US-09-442-349A-19	Sequence 19, App1
84	36	62.1	374	US-09-442-349A-20	Sequence 20, App1
85	36	62.1	374	US-09-442-349A-21	Sequence 21, App1
86	36	62.1	374	US-09-442-349A-22	Sequence 22, App1
87	36	62.1	374	US-09-442-349A-23	Sequence 23, App1
88	36	62.1	374	US-09-442-349A-24	Sequence 24, App1
89	36	62.1	374	US-09-442-349A-25	Sequence 25, App1
90	36	62.1	374	US-09-442-349A-26	Sequence 26, App1
91	36	62.1	374	US-09-442-349A-27	Sequence 27, App1
92	36	62.1	374	US-09-442-349A-28	Sequence 28, App1
93	36	62.1	374	US-09-442-349A-29	Sequence 29, App1
94	36	62.1	374	US-09-442-349A-30	Sequence 30, App1
95	36	62.1	374	US-09-442-349A-31	Sequence 31, App1
96	36	62.1	374	US-09-442-349A-32	Sequence 32, App1
97	36	62.1	374	US-09-442-349A-33	Sequence 33, App1
98	36	62.1	374	US-09-442-349A-34	Sequence 34, App1
99	36	62.1	374	US-09-442-349A-35	Sequence 35, App1
100	36	62.1	374	US-09-442-349A-36	Sequence 36, App1

101	36	62.1	374	2	US-09-442-349A-37	Sequence 37, Appl	174	36	62.1	515	1	US-08-557-122A-34	Sequence 34, Appl
102	36	62.1	374	2	US-09-442-349A-38	Sequence 38, Appl	175	36	62.1	515	2	US-09-262-666-3	Sequence 3, Appl
103	36	62.1	374	2	US-09-442-349A-39	Sequence 39, Appl	176	36	62.1	515	2	US-09-262-666-34	Sequence 34, Appl
104	36	62.1	374	2	US-09-442-349A-40	Sequence 40, Appl	177	36	62.1	553	2	US-09-447-497-14	Sequence 14, Appl
105	36	62.1	374	2	US-09-442-349A-41	Sequence 41, Appl	178	36	62.1	638	2	US-08-557-122A-38	Sequence 38, Appl
106	36	62.1	374	2	US-09-442-349A-42	Sequence 42, Appl	179	36	62.1	638	2	US-09-262-666-38	Sequence 38, Appl
107	36	62.1	374	2	US-09-442-349A-43	Sequence 43, Appl	180	36	62.1	645	2	US-09-538-092-920	Sequence 920, App
108	36	62.1	374	2	US-09-442-349A-44	Sequence 44, Appl	181	36	62.1	700	1	US-08-568-459A-10	Sequence 10, Appl
109	36	62.1	374	2	US-09-442-349A-45	Sequence 45, Appl	182	36	62.1	700	1	US-08-487-826B-10	Sequence 10, Appl
110	36	62.1	374	2	US-09-442-349A-46	Sequence 46, Appl	183	36	62.1	700	2	US-09-210-288-10	Sequence 10, Appl
111	36	62.1	374	2	US-09-442-349A-47	Sequence 47, Appl	184	36	62.1	700	2	US-10-153-273-10	Sequence 10, Appl
112	36	62.1	374	2	US-09-442-349A-48	Sequence 48, Appl	185	36	62.1	835	2	US-09-270-767-60845	Sequence 60845, A
113	36	62.1	374	2	US-09-442-349A-49	Sequence 49, Appl	186	36	62.1	869	2	US-09-252-991A-16746	Sequence 16746, A
114	36	62.1	374	2	US-09-442-349A-50	Sequence 50, Appl	187	36	62.1	947	2	US-09-270-767-45347	Sequence 45347, A
115	36	62.1	374	2	US-09-442-349A-51	Sequence 51, Appl	188	36	62.1	1133	2	US-09-902-540-13243	Sequence 12243, A
116	36	62.1	374	2	US-09-442-349A-52	Sequence 52, Appl	189	36	62.1	2182	1	US-08-487-826B-16	Sequence 16, Appl
117	36	62.1	374	2	US-09-442-349A-53	Sequence 53, Appl	190	36	62.1	3075	1	US-08-460-309-5	Sequence 5, Appl
118	36	62.1	374	2	US-09-442-349A-54	Sequence 54, Appl	191	36	62.1	3075	1	US-08-125-077-5	Sequence 5, Appl
119	36	62.1	374	2	US-09-442-349A-55	Sequence 55, Appl	192	35	60.3	9	2	US-10-365-908-74	Sequence 74, Appl
120	36	62.1	374	2	US-09-442-349A-56	Sequence 56, Appl	193	35	60.3	36	2	US-09-000-094-30	Sequence 30, Appl
121	36	62.1	374	2	US-09-442-349A-57	Sequence 57, Appl	194	35	60.3	36	2	US-10-011-749-30	Sequence 30, Appl
122	36	62.1	374	2	US-09-442-349A-58	Sequence 58, Appl	195	35	60.3	145	2	US-09-489-033A-8454	Sequence 8454, Ap
123	36	62.1	374	2	US-09-442-349A-59	Sequence 59, Appl	196	35	60.3	148	2	US-09-543-681A-6030	Sequence 6030, Ap
124	36	62.1	374	2	US-09-442-349A-60	Sequence 60, Appl	197	35	60.3	214	2	US-09-902-540-15224	Sequence 15224, A
125	36	62.1	374	2	US-09-442-349A-61	Sequence 61, Appl	198	35	60.3	281	2	US-09-134-000C-1822	Sequence 1822, Ap
126	36	62.1	374	2	US-09-442-349A-62	Sequence 62, Appl	199	35	60.3	325	2	US-09-134-000C-3312	Sequence 4312, Ap
127	36	62.1	374	2	US-09-442-349A-63	Sequence 63, Appl	200	35	60.3	325	2	US-09-902-540-11451	Sequence 11451, A
128	36	62.1	374	2	US-09-442-349A-64	Sequence 64, Appl	201	35	60.3	375	2	US-09-000-094-22	Sequence 22, Appl
129	36	62.1	374	2	US-09-442-349A-65	Sequence 65, Appl	202	35	60.3	375	2	US-10-011-749-22	Sequence 22, Appl
130	36	62.1	374	2	US-09-442-349A-66	Sequence 66, Appl	203	35	60.3	385	2	US-09-270-767-42231	Sequence 42231, A
131	36	62.1	374	2	US-09-442-349A-67	Sequence 67, Appl	204	35	60.3	465	2	US-09-000-094-24	Sequence 24, Appl
132	36	62.1	374	2	US-09-442-349A-68	Sequence 68, Appl	205	35	60.3	465	2	US-10-011-749-24	Sequence 24, Appl
133	36	62.1	374	2	US-09-442-349A-69	Sequence 69, Appl	206	35	60.3	601	1	US-08-606-288-7	Sequence 7, Appl
134	36	62.1	374	2	US-09-442-349A-70	Sequence 70, Appl	207	35	60.3	601	1	US-08-606-288-7	Sequence 7, Appl
135	36	62.1	374	2	US-09-442-349A-71	Sequence 71, Appl	208	35	60.3	601	2	US-09-347-483-7	Sequence 10, Appl
136	36	62.1	374	2	US-09-442-349A-72	Sequence 72, Appl	209	35	60.3	601	2	US-09-347-483-7	Sequence 10, Appl
137	36	62.1	374	2	US-09-442-349A-73	Sequence 73, Appl	210	35	60.3	993	1	US-08-444-792-2	Sequence 2, Appl
138	36	62.1	374	2	US-09-442-349A-74	Sequence 74, Appl	211	35	60.3	993	1	US-08-445-042-2	Sequence 2, Appl
139	36	62.1	374	2	US-09-442-349A-75	Sequence 75, Appl	212	35	60.3	1039	2	US-09-409-648-8	Sequence 8, Appl
140	36	62.1	374	2	US-09-442-349A-76	Sequence 76, Appl	213	35	60.3	1039	2	US-09-409-648-8	Sequence 8, Appl
141	36	62.1	374	2	US-09-442-349A-77	Sequence 77, Appl	214	35	60.3	1039	2	US-09-954-272-10	Sequence 10, Appl
142	36	62.1	374	2	US-09-442-349A-78	Sequence 78, Appl	215	35	60.3	1039	2	US-09-049-002-238	Sequence 238, App
143	36	62.1	374	2	US-09-442-349A-79	Sequence 79, Appl	216	35	60.3	1039	6	US-09-949-016-6603	Sequence 6603, Ap
144	36	62.1	374	2	US-09-442-349A-80	Sequence 80, Appl	217	35	60.3	1558	2	US-09-000-094-46	Sequence 46, Appl
145	36	62.1	374	2	US-09-442-349A-81	Sequence 81, Appl	218	35	60.3	1587	2	US-10-011-749-46	Sequence 46, Appl
146	36	62.1	374	2	US-09-442-349A-82	Sequence 82, Appl	219	35	60.3	1606	2	US-09-949-016-7371	Sequence 7371, Ap
147	36	62.1	374	2	US-09-442-349A-83	Sequence 83, Appl	220	35	60.3	1905	2	US-09-964-956-44	Sequence 44, Appl
148	36	62.1	374	2	US-09-442-349A-84	Sequence 84, Appl	221	35	60.3	2639	2	US-09-080-983-3	Sequence 3, Appl
149	36	62.1	374	2	US-09-442-349A-85	Sequence 85, Appl	222	35	60.3	2639	2	US-09-613-486-3	Sequence 3, Appl
150	36	62.1	374	2	US-09-442-349A-86	Sequence 86, Appl	223	35	60.3	440	2	US-09-489-039A-12132	Sequence 12132, A
151	36	62.1	374	2	US-09-442-349A-87	Sequence 87, Appl	224	35	59.5	14	1	US-08-164-618-16	Sequence 16, Appl
152	36	62.1	374	2	US-09-442-349A-88	Sequence 88, Appl	225	34	58.6	14	1	US-08-702-054B-13	Sequence 13, Appl
153	36	62.1	374	2	US-09-442-349A-89	Sequence 89, Appl	226	34	58.6	19	2	US-09-489-847-359	Sequence 359, App
154	36	62.1	374	2	US-09-442-349A-90	Sequence 90, Appl	227	34	58.6	64	2	US-09-513-996C-6856	Sequence 6856, Ap
155	36	62.1	374	2	US-09-442-349A-91	Sequence 91, Appl	228	34	58.6	148	2	US-09-270-767-48875	Sequence 48875, A
156	36	62.1	374	2	US-09-442-349A-92	Sequence 92, Appl	229	34	58.6	169	2	US-09-489-039A-8257	Sequence 8257, Ap
157	36	62.1	374	2	US-09-442-349A-105	Sequence 105, App	230	34	58.6	35	2	US-09-227-357-2288	Sequence 228, App
158	36	62.1	374	2	US-09-984-292-38	Sequence 38, Appl	231	34	58.6	36	2	US-09-962-736-1106	Sequence 1106, Ap
159	36	62.1	374	2	US-09-984-292-39	Sequence 39, Appl	232	34	58.6	63	2	US-09-513-996C-4710	Sequence 4710, Ap
160	36	62.1	374	2	US-09-984-292-39	Sequence 39, Appl	233	34	58.6	64	2	US-09-513-996C-6856	Sequence 6856, Ap
161	36	62.1	375	2	US-09-323-872A-33	Sequence 33, Appl	234	34	58.6	148	2	US-09-270-767-48875	Sequence 48875, A
162	36	62.1	378	2	US-09-949-016-7851	Sequence 7851, Ap	235	34	58.6	169	2	US-09-489-039A-8257	Sequence 8257, Ap
163	36	62.1	385	2	US-09-270-767-42638	Sequence 42638, A	236	34	58.6	179	2	US-08-874-102-41	Sequence 41, Appl
164	36	62.1	382	1	US-08-423-441-2	Sequence 2, Appl	237	34	58.6	179	2	US-08-874-102-44	Sequence 44, Appl
165	36	62.1	416	2	US-09-252-991A-20647	Sequence 20647, A	238	34	58.6	179	2	US-08-984-919A-41	Sequence 41, Appl
166	36	62.1	427	2	US-09-902-540-10191	Sequence 10191, A	239	34	58.6	182	2	US-09-270-767-33408	Sequence 33408, A
167	36	62.1	431	2	US-09-912-935-36	Sequence 36, Appl	240	34	58.6	182	2	US-09-270-767-46255	Sequence 46255, A
168	36	62.1	439	2	US-09-807-258-12	Sequence 12, Appl	241	34	58.6	187	2	US-09-252-991A-23324	Sequence 23324, A
169	36	62.1	502	1	US-08-484-840-3	Sequence 3, Appl	242	34	58.6	187	2	US-09-252-991A-23324	Sequence 23324, A
170	36	62.1	502	1	US-08-83-094-3	Sequence 3, Appl	243	34	58.6	193	2	US-09-270-767-61072	Sequence 61072, A
171	36	62.1	511	1	US-08-557-122A-4	Sequence 4, Appl	244	34	58.6	237	2	US-09-270-767-33547	Sequence 33547, A
172	36	62.1	511	2	US-09-862-666-4	Sequence 4, Appl	245	34	58.6	237	2	US-09-270-767-48764	Sequence 48764, A
173	36	62.1	515	1	US-08-557-122A-3	Sequence 3, Appl	246	34	58.6	265	2	US-09-248-796A-19659	Sequence 19659, A

247	34	58.6	280	2	US-09-264-419C-2	Sequence 2, Appli	320	33	56.9	77	1	US-08-570-227A-4	Sequence 4, Appli
248	34	58.6	280	2	US-09-907-794A-335	Sequence 325, App	321	33	56.9	77	2	US-09-077-991-6	Sequence 6, Appli
249	34	58.6	280	2	US-09-905-125A-335	Sequence 325, App	322	33	56.9	77	2	US-09-248-796A-16264	Sequence 16264, A
250	34	58.6	280	2	US-09-902-775A-335	Sequence 325, App	323	33	56.9	106	2	US-09-270-767-36670	Sequence 36670, A
251	34	58.6	280	2	US-09-906-700-325	Sequence 325, App	324	33	56.9	106	2	US-09-270-767-51887	Sequence 51887, A
252	34	58.6	280	2	US-09-903-603A-335	Sequence 325, App	325	33	56.9	106	2	US-09-270-767-58483	Sequence 58483, A
253	34	58.6	280	2	US-09-904-920A-335	Sequence 325, App	326	33	56.9	107	2	US-09-513-999C-4311	Sequence 4311, Ap
254	34	58.6	280	2	US-09-906-536A-1	Sequence 1, Appli	327	33	56.9	108	2	US-09-621-976-5276	Sequence 5276, Ap
255	34	58.6	280	2	US-09-909-064-325	Sequence 325, App	328	33	56.9	111	2	US-08-874-419C-6	Sequence 6, Appli
256	34	58.6	280	2	US-09-905-381A-325	Sequence 325, App	329	33	56.9	113	2	US-08-984-918A-58	Sequence 58, Appli
257	34	58.6	280	2	US-09-906-618-325	Sequence 325, App	330	33	56.9	113	2	US-09-902-540-10377	Sequence 10377, A
258	34	58.6	280	2	US-09-906-646-325	Sequence 325, App	331	33	56.9	116	2	US-09-882-835-5	Sequence 5, Appli
259	34	58.6	280	2	US-09-904-462-325	Sequence 325, App	332	33	56.9	119	2	US-09-270-767-44716	Sequence 44716, A
260	34	58.6	280	2	US-09-902-736A-335	Sequence 325, App	333	33	56.9	123	2	US-09-543-681A-6223	Sequence 6223, Ap
261	34	58.6	280	2	US-09-906-722A-335	Sequence 325, App	334	33	56.9	129	2	US-09-489-038A-10738	Sequence 10738, A
262	34	58.6	280	2	US-09-650-324A-49	Sequence 49, Appli	335	33	56.9	131	2	US-09-513-999C-4207	Sequence 4207, Ap
263	34	58.6	280	2	US-10-039-112A-49	Sequence 49, Appli	336	33	56.9	133	2	US-09-807-258-6	Sequence 6, Appli
264	34	58.6	280	2	US-09-949-016-10270	Sequence 10270, A	337	33	56.9	139	2	US-08-874-102-36	Sequence 36, Appli
265	34	58.6	316	2	US-09-613-486-26	Sequence 26, Appli	338	33	56.9	139	2	US-08-984-919A-36	Sequence 36, Appli
266	34	58.6	324	2	US-09-489-847-203	Sequence 203, App	339	33	56.9	143	2	US-09-583-110-5269	Sequence 5269, Ap
267	34	58.6	339	2	US-09-686-583B-40	Sequence 40, Appli	340	33	56.9	143	2	US-09-107-433-5183	Sequence 5183, Ap
268	34	58.6	363	2	US-09-489-847-361	Sequence 361, App	341	33	56.9	158	2	US-09-417-251A-4	Sequence 4, Appli
269	34	58.6	364	2	US-09-270-767-42122	Sequence 42122, A	342	33	56.9	158	2	US-09-417-251A-4	Sequence 4, Appli
270	34	58.6	366	2	US-08-584-919A-11	Sequence 11, Appli	343	33	56.9	159	2	US-09-270-767-43147	Sequence 43147, A
271	34	58.6	368	2	US-08-781-420-11	Sequence 11, Appli	344	33	56.9	192	2	US-09-910-279-2544	Sequence 2544, Ap
272	34	58.6	368	2	US-08-874-102-11	Sequence 11, Appli	345	33	56.9	213	2	US-09-902-540-15365	Sequence 15365, A
273	34	58.6	368	2	US-09-006-595A-11	Sequence 11, Appli	346	33	56.9	230	2	US-09-902-540-15365	Sequence 15365, A
274	34	58.6	381	2	US-09-686-583B-48	Sequence 48, Appli	347	33	56.9	235	2	US-09-270-767-33308	Sequence 33308, A
275	34	58.6	382	2	US-09-764-325A-23	Sequence 23, Appli	348	33	56.9	235	2	US-08-781-420-6	Sequence 6, Appli
276	34	58.6	382	2	US-09-912-935-25	Sequence 25, Appli	349	33	56.9	235	2	US-08-874-102-6	Sequence 6, Appli
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278	34	58.6	396	2	US-09-854-133-436	Sequence 436, App	351	33	56.9	244	2	US-08-984-919A-6	Sequence 6, Appli
279	34	58.6	397	2	US-09-686-583B-43	Sequence 43, App	352	33	56.9	251	2	US-09-902-540-11511	Sequence 11511, A
280	34	58.6	408	2	US-09-949-016-8637	Sequence 8637, Ap	353	33	56.9	277	2	US-09-134-001C-4389	Sequence 4389, Ap
281	34	58.6	421	2	US-09-538-092-179	Sequence 179, App	354	33	56.9	289	2	US-09-807-258-22	Sequence 22, Appli
282	34	58.6	424	2	US-09-843-905A-13	Sequence 13, Appli	355	33	56.9	305	2	US-09-248-796A-19800	Sequence 19800, A
283	34	58.6	425	2	US-09-912-935-35	Sequence 35, Appli	356	33	56.9	305	2	US-09-328-352-6577	Sequence 6577, Ap
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285	34	58.6	432	2	US-10-020-445A-90	Sequence 90, Appli	358	33	56.9	334	2	US-09-248-796A-14997	Sequence 14997, A
286	34	58.6	439	2	US-09-902-540-15543	Sequence 15543, A	359	33	56.9	344	2	US-09-449-016-11598	Sequence 11598, A
287	34	58.6	449	2	US-09-912-935-34	Sequence 34, Appli	360	33	56.9	344	1	US-08-650-275-4	Sequence 4, Appli
288	34	58.6	466	2	US-08-984-919A-33	Sequence 33, Appli	361	33	56.9	364	2	US-09-181-318-4	Sequence 4, Appli
289	34	58.6	466	2	US-08-874-102-33	Sequence 33, Appli	362	33	56.9	364	2	US-09-807-258-31	Sequence 31, Appli
290	34	58.6	470	2	US-08-984-919A-55	Sequence 55, Appli	363	33	56.9	364	2	US-09-248-796A-14997	Sequence 14997, A
291	34	58.6	472	2	US-08-874-102-55	Sequence 55, Appli	364	33	56.9	366	3	US-09-449-016-11598	Sequence 11598, A
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293	34	58.6	485	1	US-08-464-365-1	Sequence 1, Appli	366	33	56.9	418	2	US-09-417-251A-6	Sequence 6, Appli
294	34	58.6	488	2	US-09-807-258-14	Sequence 14, Appli	367	33	56.9	426	2	US-09-807-258-26	Sequence 26, Appli
295	34	58.6	489	2	US-09-807-258-10	Sequence 10, Appli	368	33	56.9	426	2	US-09-807-258-26	Sequence 26, Appli
296	34	58.6	489	2	US-09-807-258-29	Sequence 29, Appli	369	33	56.9	426	2	US-09-807-258-26	Sequence 26, Appli
297	34	58.6	495	2	US-08-984-919A-47	Sequence 47, Appli	370	33	56.9	426	2	US-09-807-258-26	Sequence 26, Appli
298	34	58.6	497	2	US-08-874-102-47	Sequence 47, Appli	371	33	56.9	426	2	US-09-807-258-26	Sequence 26, Appli
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302	34	58.6	505	1	US-08-464-365-3	Sequence 3, Appli	375	33	56.9	426	2	US-09-807-258-26	Sequence 26, Appli
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307	34	58.6	529	2	US-09-912-935-28	Sequence 28, Appli	380	33	56.9	426	2	US-09-807-258-26	Sequence 26, Appli
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309	34	58.6	530	2	US-09-912-935-38	Sequence 38, Appli	382	33	56.9	426	2	US-09-807-258-26	Sequence 26, Appli
310	34	58.6	530	2	US-09-538-032-442	Sequence 442, App	383	33	56.9	426	2	US-09-807-258-26	Sequence 26, Appli
311	34	58.6	667	2	US-09-999-833A-459	Sequence 459, App	384	33	56.9	426	2	US-09-807-258-26	Sequence 26, Appli
312	34	58.6	747	2	US-10-020-445A-459	Sequence 459, App	385	33	56.9	426	2	US-09-807-258-26	Sequence 26, Appli
313	34	58.6	869	1	US-08-188-582-32	Sequence 32, Appli	386	33	56.9	426	2	US-09-807-258-26	Sequence 26, Appli
314	34	58.6	869	1	US-08-646-715-32	Sequence 32, Appli	387	33	56.9	426	2	US-09-807-258-26	Sequence 26, Appli
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316	34	58.6	1827	2	US-09-712-363-261	Sequence 261, App	389	33	56.9	426	2	US-09-807-258-26	Sequence 26, Appli
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318	34	58.6	71	2	US-09-248-796A-21963	Sequence 21963, A	391	33	56.9	426	2	US-09-807-258-26	Sequence 26, Appli
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395	33	56.9	510	1	US-08-557-122A-36	Sequence 36, Appl	468	32	55.2	141	2	US-09-262-666-9	Sequence 9, Appl
396	33	56.9	510	2	US-09-262-666-28	Sequence 28, Appl	469	32	55.2	143	1	US-08-557-122A-8	Sequence 8, Appl
397	33	56.9	510	2	US-09-262-666-30	Sequence 30, Appl	470	32	55.2	143	2	US-09-262-666-8	Sequence 8, Appl
398	33	56.9	510	2	US-09-262-666-36	Sequence 36, Appl	471	32	55.2	144	2	US-09-252-991A-25786	Sequence 25786, A
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401	33	56.9	541	2	US-09-417-251A-8	Sequence 8, Appl	474	32	55.2	150	2	US-09-270-767-47526	Sequence 47526, A
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403	33	56.9	551	2	US-09-517-251A-16	Sequence 16, Appl	476	32	55.2	163	1	US-09-262-666-7	Sequence 7, Appl
404	33	56.9	551	2	US-09-517-251A-16	Sequence 16, Appl	477	32	55.2	174	1	US-08-557-122A-6	Sequence 6, Appl
405	33	56.9	566	1	US-08-519-078-2	Sequence 2, Appl	478	32	55.2	174	2	US-09-262-666-6	Sequence 6, Appl
406	33	56.9	566	1	US-08-726-883-2	Sequence 2, Appl	479	32	55.2	177	2	US-09-252-991A-21277	Sequence 21277, A
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408	33	56.9	570	2	US-09-417-251A-10	Sequence 10, Appl	481	32	55.2	178	2	US-09-270-767-54466	Sequence 52466, A
409	33	56.9	593	2	US-09-564-956-46	Sequence 46, Appl	482	32	55.2	184	2	US-09-452-817-1	Sequence 1, Appl
410	33	56.9	617	2	US-09-252-991A-31600	Sequence 31600, A	483	32	55.2	184	2	US-09-489-039A-7448	Sequence 7448, Ap
411	33	56.9	662	2	US-09-570-767-62061	Sequence 62061, A	484	32	55.2	200	1	US-08-557-122A-12	Sequence 12, Appl
412	33	56.9	740	2	US-10-164-595-6	Sequence 6, Appl	485	32	55.2	200	2	US-09-262-666-12	Sequence 12, Appl
413	33	56.9	755	2	US-10-164-595-10	Sequence 10, Appl	486	32	55.2	207	1	US-08-588-163-5	Sequence 5, Appl
414	33	56.9	781	2	US-10-164-595-4	Sequence 4, Appl	487	32	55.2	207	1	US-09-111-070-5	Sequence 5, Appl
415	33	56.9	1007	2	US-10-209-059-28	Sequence 28, Appl	488	32	55.2	207	2	US-08-849-764C-5	Sequence 5, Appl
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419	33	56.9	1706	1	US-08-399-411-2	Sequence 2, Appl	492	32	55.2	207	2	US-08-134-231C-22	Sequence 22, Appl
420	33	56.9	1706	1	US-08-516-859A-2	Sequence 2, Appl	493	32	55.2	207	2	US-08-134-231C-23	Sequence 23, Appl
421	33	56.9	1706	2	US-09-586-472-2	Sequence 2, Appl	494	32	55.2	207	2	US-08-728-160-22	Sequence 22, Appl
422	33	56.9	1706	2	US-09-528-706-2	Sequence 2, Appl	495	32	55.2	207	2	US-10-116-064-5	Sequence 5, Appl
423	33	56.9	1706	2	US-10-024-450-2	Sequence 2, Appl	496	32	55.2	207	2	US-09-489-039A-10423	Sequence 10423, A
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425	33	56.9	1719	1	US-08-399-411-4	Sequence 4, Appl	498	32	55.2	208	2	US-09-543-681A-765	Sequence 6765, Ap
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432	33	56.9	3052	2	US-09-262-666-26	Sequence 26, Appl	505	32	55.2	280	2	US-09-270-767-33482	Sequence 33482, A
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436	32	55.2	19	2	US-08-488-446-432	Sequence 432, App	509	32	55.2	300	2	US-10-039-112A-50	Sequence 50, Appl
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439	32	55.2	47	1	US-08-691-814B-20	Sequence 20, Appl	512	32	55.2	322	4	US-08-665-647-3	Sequence 3, Appl
440	32	55.2	49	2	US-09-48-545-245	Sequence 245, App	513	32	55.2	334	1	US-09-489-039A-9370	Sequence 9370, Ap
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444	32	55.2	76	2	US-09-448-796A-27927	Sequence 6614, Ap	517	32	55.2	359	2	US-09-544-681A-5421	Sequence 5421, Ap
445	32	55.2	83	2	US-09-621-976-6614	Sequence 6246, Ap	518	32	55.2	390	1	US-08-614-156B-1	Sequence 1, Appl
446	32	55.2	87	2	US-09-949-016-6246	Sequence 34476, A	519	32	55.2	390	1	US-08-614-156B-3	Sequence 3, Appl
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448	32	55.2	90	2	US-09-270-767-49693	Sequence 7718, Ap	521	32	55.2	390	2	US-09-949-016-8114	Sequence 8114, Ap
449	32	55.2	94	2	US-09-549-016-7718	Sequence 25697, A	522	32	55.2	390	2	US-09-252-991A-70977	Sequence 30977, A
450	32	55.2	99	2	US-09-252-991A-25697	Sequence 4, Appl	523	32	55.2	424	1	US-08-614-155B-1	Sequence 1, Appl
451	32	55.2	100	2	US-09-893-737-4	Sequence 7814, Ap	524	32	55.2	424	1	US-09-166-963-3	Sequence 3, Appl
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453	32	55.2	106	2	US-09-452-817-2	Sequence 2, Appl	526	32	55.2	424	2	US-09-166-963-3	Sequence 3, Appl
454	32	55.2	110	2	US-09-417-251A-2	Sequence 2, Appl	527	32	55.2	424	2	US-09-166-963-3	Sequence 3, Appl
455	32	55.2	110	2	US-09-417-251A-2	Sequence 2, Appl	528	32	55.2	424	2	US-09-166-963-3	Sequence 3, Appl
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457	32	55.2	121	2	US-09-205-258-273	Sequence 273, App	530	32	55.2	445	2	US-09-328-352-7248	Sequence 7248, Ap
458	32	55.2	122	2	US-10-004-860-273	Sequence 8622, Ap	531	32	55.2	445	2	US-09-843-905A-14	Sequence 14, Appl
459	32	55.2	125	2	US-09-489-039A-8622	Sequence 11, Appl	532	32	55.2	467	2	US-09-540-226-2469	Sequence 2469, Ap
460	32	55.2	129	1	US-08-557-122A-11	Sequence 10, Appl	533	32	55.2	486	1	US-08-870-518-3	Sequence 3, Appl
461	32	55.2	129	1	US-08-557-122A-11	Sequence 10, Appl	534	32	55.2	498	2	US-09-949-016-7895	Sequence 7895, Ap
462	32	55.2	131	1	US-09-262-666-10	Sequence 10, Appl	535	32	55.2	521	1	US-08-557-122A-32	Sequence 32, Appl
463	32	55.2	131	2	US-09-262-666-10	Sequence 41113, A	536	32	55.2	521	2	US-09-262-666-32	Sequence 32, Appl
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465	32	55.2	132	2	US-09-270-767-41113		538						

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541	32	55.2	530	2	US-09-362-666-35	Sequence 35, Appl1
542	32	55.2	531	1	US-08-923-536A-12	Sequence 12, Appl1
543	32	55.2	572	1	US-08-669-524-8	Sequence 8, Appl1
544	32	55.2	585	2	US-09-328-352-6133	Sequence 6133, Ap
545	32	55.2	627	2	US-09-543-681A-6701	Sequence 6701, Ap
546	32	55.2	727	2	US-08-712-241-2	Sequence 2, Appl1
547	32	55.2	753	1	US-09-949-002-299	Sequence 299, App
548	32	55.2	753	2	US-09-949-002-556	Sequence 556, App
549	32	55.2	759	2	US-09-489-039A-7282	Sequence 7282, Ap
550	32	55.2	784	2	US-09-543-681A-7442	Sequence 7442, Ap
551	32	55.2	788	1	US-07-728-215-27	Sequence 27, Appl1
552	32	55.2	788	2	US-08-938-085A-27	Sequence 27, Appl1
553	32	55.2	788	2	US-10-072-844-27	Sequence 27, Appl1
554	32	55.2	788	2	US-10-072-838-27	Sequence 27, Appl1
555	32	55.2	788	2	US-10-072-841A-27	Sequence 27, Appl1
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557	32	55.2	794	2	US-09-949-016-10746	Sequence 43, Appl1
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559	32	55.2	3852	2	US-10-025-225-4	Sequence 6, Appl1
560	32	55.2	4585	2	US-10-025-225-6	Sequence 8, Appl1
561	32	55.2	4588	2	US-10-025-225-8	Sequence 8, Appl1
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563	32	55.2	4589	2	US-09-252-991A-31385	Sequence 7581, A
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565	31.5	54.3	471	2	US-10-365-908-21	Sequence 167, Ap
566	31	53.4	10	2	US-08-159-339A-1167	Sequence 32, Appl1
567	31	53.4	13	2	US-09-169-425C-32	Sequence 1168, Ap
568	31	53.4	14	2	US-09-759-960-32	Sequence 25, Appl1
569	31	53.4	14	2	US-08-159-339A-1168	Sequence 18, Appl1
570	31	53.4	15	2	US-09-169-425C-25	Sequence 157, App
571	31	53.4	16	2	US-09-759-960-25	Sequence 157, App
572	31	53.4	16	2	US-09-980-523A-18	Sequence 40, Appl1
573	31	53.4	19	2	US-08-934-915-50	Sequence 5, Appl1
574	31	53.4	21	1	US-08-934-915-50	Sequence 54, Appl1
575	31	53.4	21	1	US-08-934-915-50	Sequence 23, Appl1
576	31	53.4	21	1	US-08-934-915-50	Sequence 39, Appl1
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579	31	53.4	24	2	US-08-477-391-43	Sequence 61545, A
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581	31	53.4	28	2	US-09-466-394-5	Sequence 1162, Ap
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584	31	53.4	36	2	US-09-495-880A-8	Sequence 8, Appl1
585	31	53.4	36	2	US-09-495-880A-23	Sequence 159, App
586	31	53.4	36	2	US-09-495-880A-39	Sequence 38, Appl1
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590	31	53.4	57	2	US-09-270-767-51544	Sequence 28, Appl1
591	31	53.4	57	2	US-09-270-767-4768	Sequence 28, Appl1
592	31	53.4	57	2	US-09-270-767-49985	Sequence 1, Appl1
593	31	53.4	58	2	US-09-471-276-1162	Sequence 9, Appl1
594	31	53.4	61	2	US-09-107-532A-5570	Sequence 7, Appl1
595	31	53.4	63	1	US-08-466-583-8	Sequence 26, Appl1
596	31	53.4	63	2	US-08-265-427-9	Sequence 1, Appl1
597	31	53.4	63	2	US-09-732-210-159	Sequence 159, App
598	31	53.4	63	2	US-09-898-659-38	Sequence 38, Appl1
599	31	53.4	63	4	PCT-US95-07820-8	Sequence 8, Appl1
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687	31	53.4	172	2	US-09-359-382-14	Sequence 14, App1	760	31	53.4	360	2	US-10-020-4A5A-410	Sequence 410, App
688	31	53.4	174	2	US-08-311-731A-261	Sequence 261, App	761	31	53.4	369	2	US-09-482-273-208	Sequence 208, App
689	31	53.4	182	2	US-09-523-886-3	Sequence 3, App1	762	31	53.4	371	2	US-09-485-885-6	Sequence 6, App1
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707	31	53.4	220	2	US-09-485-885-8	Sequence 8, App1	780	31	53.4	442	2	US-09-252-991A-23285	Sequence 23285, A
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726	31	53.4	266	2	US-09-359-382-10	Sequence 10, App1	799	31	53.4	464	2	US-09-134-001C-4A88	Sequence 4A88, Ap
727	31	53.4	266	4	US-09-367-309A-1	Sequence 1, App1	800	31	53.4	464	2	US-09-187-906-13	Sequence 13, App1
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729	31	53.4	266	4	PCT-US92-10178-5	Sequence 5, App1	802	31	53.4	464	2	US-09-388-316C-3	Sequence 3, App1
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743	31	53.4	306	2	US-09-505-703B-568	Sequence 568, App	816	31	53.4	471	1	US-08-466-583-2	Sequence 2, App1
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832	31	53.4	554	2	US-09-614-891-11	Sequence 11, Appl	905	31	53.4	2165	2	US-09-368-076-30	Sequence 30, Appl
833	31	53.4	562	2	US-10-104-047-3214	Sequence 3214, Ap	906	31	53.4	2165	4	PCT-US95-12507-2	Sequence 2, Appl
834	31	53.4	567	2	US-09-477-392-2	Sequence 2, Appl	907	31	53.4	2220	2	US-09-949-016-9730	Sequence 9730, Ap
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837	31	53.4	581	2	US-09-269-939A-12	Sequence 12, Appl	910	31	53.4	2291	2	US-09-822-871-2	Sequence 2, Appl
838	31	53.4	587	2	US-09-711-164-335	Sequence 335, App	911	31	53.4	2301	2	US-09-822-871-4	Sequence 4, Appl
839	31	53.4	595	2	US-08-842-079-18	Sequence 18, Appl	912	31	53.4	2301	2	US-09-538-092-1131	Sequence 1131, Ap
840	31	53.4	595	2	US-08-842-079-20	Sequence 20, Appl	913	31	53.4	2301	2	US-09-824-574-7	Sequence 7, Appl
841	31	53.4	595	2	US-09-638-857-18	Sequence 18, Appl	914	31	53.4	2301	2	US-09-198-452A-11	Sequence 11, Appl
842	31	53.4	595	2	US-09-638-857-20	Sequence 20, Appl	915	30.5	52.6	109	2	US-09-438-185A-2	Sequence 2, Appl
843	31	53.4	611	2	US-09-949-016-8371	Sequence 8371, Ap	916	30.5	52.6	109	2	US-08-948-378A-2	Sequence 2, Appl
844	31	53.4	615	2	US-09-949-002-301	Sequence 301, App	917	30	51.7	9	2	US-09-159-484-68	Sequence 68, Appl
845	31	53.4	623	2	US-09-583-110-4292	Sequence 4292, Ap	918	30	51.7	9	2	US-09-759-960-2	Sequence 2, Appl
846	31	53.4	629	2	US-09-107-433-5042	Sequence 5042, Ap	919	30	51.7	9	2	US-10-365-908-64	Sequence 64, Appl
847	31	53.4	630	2	US-09-489-522-16	Sequence 16, Appl	920	30	51.7	9	4	PCT-US95-02121-68	Sequence 9, Appl
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849	31	53.4	636	2	US-10-138-075-4	Sequence 4, Appl	922	30	51.7	10	2	US-09-169-425C-16	Sequence 16, Appl
850	31	53.4	639	2	US-09-613-303-17	Sequence 17, Appl	923	30	51.7	11	2	US-09-169-425C-31	Sequence 31, Appl
851	31	53.4	639	2	US-10-267-311-17	Sequence 17, Appl	924	30	51.7	11	2	US-09-169-425C-33	Sequence 33, Appl
852	31	53.4	641	2	US-09-613-303-51	Sequence 51, Appl	925	30	51.7	11	2	US-09-759-960-31	Sequence 31, Appl
853	31	53.4	641	2	US-10-267-311-51	Sequence 51, Appl	926	30	51.7	11	2	US-09-759-960-33	Sequence 33, Appl
854	31	53.4	647	2	US-09-613-303-53	Sequence 53, Appl	927	30	51.7	12	2	US-08-948-378A-16	Sequence 16, Appl
855	31	53.4	647	2	US-09-389-956-6	Sequence 6, Appl	928	30	51.7	12	2	US-09-169-425C-19	Sequence 19, Appl
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857	31	53.4	648	2	US-09-613-303-29	Sequence 29, Appl	930	30	51.7	12	2	US-08-948-378A-3	Sequence 3, Appl
858	31	53.4	648	2	US-10-267-311-29	Sequence 29, Appl	931	30	51.7	13	2	US-08-948-378A-4	Sequence 4, Appl
859	31	53.4	649	2	US-09-499-522-14	Sequence 14, Appl	932	30	51.7	13	2	US-08-948-378A-19	Sequence 19, Appl
860	31	53.4	649	2	US-09-269-939A-8	Sequence 8, Appl	933	30	51.7	13	2	US-09-169-425C-3	Sequence 3, Appl
861	31	53.4	656	2	US-09-902-540-9810	Sequence 9810, Ap	934	30	51.7	13	2	US-09-169-425C-4	Sequence 4, Appl
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864	31	53.4	664	2	US-09-487-685-16	Sequence 16, Appl	937	30	51.7	13	2	US-09-759-960-19	Sequence 19, Appl
865	31	53.4	664	2	US-08-802-885D-16	Sequence 16, Appl	938	30	51.7	13	2	US-08-075-541D-50	Sequence 50, Appl
866	31	53.4	664	2	US-09-388-316C-16	Sequence 16, Appl	939	30	51.7	20	2	US-09-716-129-86	Sequence 86, Appl
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868	31	53.4	711	2	US-09-613-303-41	Sequence 41, Appl	941	30	51.7	32	2	US-09-679-705-16	Sequence 16, Appl
869	31	53.4	711	2	US-10-267-311-41	Sequence 41, Appl	942	30	51.7	32	2	US-09-679-705-17	Sequence 17, Appl
870	31	53.4	718	1	US-08-444-792-4	Sequence 4, Appl	943	30	51.7	38	2	US-08-948-378A-6	Sequence 6, Appl
871	31	53.4	718	1	US-08-445-042-4	Sequence 4, Appl	944	30	51.7	38	2	US-09-169-425C-6	Sequence 6, Appl
872	31	53.4	722	2	US-09-949-016-6909	Sequence 6909, Ap	945	30	51.7	38	2	US-09-759-960-6	Sequence 7, Appl
873	31	53.4	723	2	US-09-501-097A-20	Sequence 20, Appl	946	30	51.7	53	2	US-09-621-976-7731	Sequence 7731, Ap
874	31	53.4	724	2	US-09-613-303-45	Sequence 45, Appl	947	30	51.7	55	2	US-09-270-767-43973	Sequence 43973, A
875	31	53.4	724	2	US-10-267-311-45	Sequence 45, Appl	948	30	51.7	59	2	US-09-227-357-645	Sequence 645, App
876	31	53.4	725	2	US-09-949-016-10832	Sequence 10832, A	949	30	51.7	59	2	US-09-973-278-430	Sequence 430, App
877	31	53.4	784	2	US-09-949-016-9467	Sequence 9467, Ap	950	30	51.7	60	2	US-09-227-357-518	Sequence 518, App
878	31	53.4	784	2	US-07-728-215-32	Sequence 32, Appl	951	30	51.7	60	2	US-09-543-681A-7625	Sequence 7625, Ap
879	31	53.4	788	2	US-08-938-085A-32	Sequence 32, Appl	952	30	51.7	60	2	US-09-270-767-43973	Sequence 43973, A
880	31	53.4	788	2	US-09-409-648-3	Sequence 3, Appl	953	30	51.7	60	2	US-09-973-278-430	Sequence 430, App
881	31	53.4	788	2	US-09-409-648-4	Sequence 4, Appl	954	30	51.7	60	2	US-09-227-357-518	Sequence 518, App
882	31	53.4	788	2	US-10-072-844-32	Sequence 32, Appl	955	30	51.7	60	2	US-09-543-681A-7625	Sequence 7625, Ap
883	31	53.4	788	2	US-10-072-838-32	Sequence 32, Appl	956	30	51.7	60	2	US-09-270-767-43973	Sequence 43973, A
884	31	53.4	788	2	US-10-072-841A-32	Sequence 32, Appl	957	30	51.7	66	2	US-09-621-976-5438	Sequence 5438, Ap
885	31	53.4	788	2	US-09-054-272-8	Sequence 8, Appl	958	30	51.7	66	2	US-09-621-976-5438	Sequence 5438, Ap
886	31	53.4	788	2	US-09-054-272-44	Sequence 44, Appl	959	30	51.7	66	2	US-09-621-976-5438	Sequence 5438, Ap
887	31	53.4	788	2	US-10-219-631A-32	Sequence 32, Appl	960	30	51.7	70	2	US-09-270-767-43973	Sequence 43973, A
888	31	53.4	788	2	US-09-949-016-5901	Sequence 5901, Ap	961	30	51.7	70	2	US-09-270-767-43973	Sequence 43973, A
889	31	53.4	810	2	US-09-323-872A-29	Sequence 29, Appl	962	30	51.7	70	2	US-09-270-767-43973	Sequence 43973, A
890	31	53.4	810	2	US-09-072-433-33	Sequence 33, Appl	963	30	51.7	70	2	US-09-270-767-43973	Sequence 43973, A
891	31	53.4	814	2	US-09-248-796A-16309	Sequence 16309, A	964	30	51.7	70	2	US-09-270-767-43973	Sequence 43973, A
892	31	53.4	818	2	US-09-489-039A-12912	Sequence 12912, A	965	30	51.7	70	2	US-09-270-767-43973	Sequence 43973, A
893	31	53.4	818	2	US-09-252-991A-32729	Sequence 32729, A	966	30	51.7	70	2	US-09-270-767-43973	Sequence 43973, A
894	31	53.4	952	2	US-09-398-523-52	Sequence 52, Appl	967	30	51.7	77	2	US-09-513-999C-7593	Sequence 7593, App
895	31	53.4	1207	2	US-09-252-991A-73150	Sequence 23150, A	968	30	51.7	77	2	US-09-513-999C-7593	Sequence 7593, App
896	31	53.4	1269	2	US-08-840-062-6	Sequence 6, Appl	969	30	51.7	84	2	US-09-328-352-6104	Sequence 6104, Ap
897	31	53.4	1449	2	US-09-194-612A-1	Sequence 1, Appl	970	30	51.7	85	2	US-09-489-039A-12753	Sequence 12753, A
898	31	53.4	1722	2	US-09-538-002-1033	Sequence 1033, Ap	971	30	51.7	85	2	US-09-489-039A-12753	Sequence 12753, A
899	31	53.4	1722	2	US-09-949-002-341	Sequence 341, App	972	30	51.7	89	2	US-09-248-796A-16315	Sequence 16315, A
900	31	53.4	1723	2	US-09-194-612A-31	Sequence 31, Appl	973	30	51.7	95	2	US-09-270-767-47475	Sequence 47475, A
901	31	53.4	1740	2	US-09-949-002-555	Sequence 535, App	974	30	51.7	95	2	US-09-270-767-47475	Sequence 47475, A
902	31	53.4	1912	2	US-09-949-016-10490	Sequence 10490, A	975	30	51.7	103	2	US-09-621-976-6018	Sequence 6018, Ap
903	31	53.4	2165	1	US-08-514-975B-2	Sequence 2, Appl	976	30	51.7	105	2	US-09-313-434C-14	Sequence 14, Appl

977 30 51.7 106 1 US-08-491-976-1 Sequence 1, Appl
978 30 51.7 112 2 US-09-583-110-3274 Sequence 3274, Ap
979 30 51.7 113 2 US-09-252-991A-19151 Sequence 19151, A
980 30 51.7 117 2 US-09-252-991A-17347 Sequence 17347, A
981 30 51.7 117 2 US-09-107-433-5072 Sequence 5072, Ap
982 30 51.7 121 2 US-09-252-991A-20680 Sequence 20680, A
983 30 51.7 121 2 US-09-270-767-33701 Sequence 33701, A
984 30 51.7 121 2 US-09-270-767-48918 Sequence 48918, A
985 30 51.7 125 2 US-09-949-016-11079 Sequence 11079, A
986 30 51.7 127 2 US-09-673-395A-284 Sequence 284, App
987 30 51.7 131 2 US-10-104-047-2617 Sequence 2617, Ap
988 30 51.7 133 2 US-09-328-352-6246 Sequence 6246, Ap
989 30 51.7 136 2 US-09-252-991A-19336 Sequence 19336, A
990 30 51.7 137 2 US-09-252-991A-29763 Sequence 29763, A
991 30 51.7 140 2 US-09-673-395A-229 Sequence 229, App
992 30 51.7 143 2 US-10-104-047-2768 Sequence 2768, App
993 30 51.7 143 2 US-10-104-047-2813 Sequence 2813, Ap
994 30 51.7 144 2 US-09-252-991A-16576 Sequence 16576, A
995 30 51.7 146 2 US-10-012-819-10 Sequence 10, Appl
996 30 51.7 148 4 PCT-US95-07135-2 Sequence 2, Appl
997 30 51.7 154 2 US-09-270-767-33557 Sequence 33557, A
998 30 51.7 154 2 US-09-270-767-48774 Sequence 48774, A
999 30 51.7 156 2 US-09-134-000C-3896 Sequence 3896, Ap
1000 30 51.7 156 2 US-09-270-767-33492 Sequence 33492, A

ALIGNMENTS

RESULT 1
US-08-934-915-66
Sequence 66, Application US/08934915
Patent No. 5932412
GENERAL INFORMATION:
APPLICANT: DILLNER, JOAKIM
APPLICANT: DILLNER, LENA
APPLICANT: CHENG, HWEI-MING
TITLE OF INVENTION: SYNTHETIC PEPTIDES OF HUMAN
TITLE OF INVENTION: PAPILLOMAVIRUS 1, 5, 6, 8,
TITLE OF INVENTION: 11, 16, 18, 31, 33 AND 56,
TITLE OF INVENTION: USEFUL IN IMMUNOSSAY FOR
NUMBER OF SEQUENCES: 193
CORRESPONDENCE ADDRESS:
ADDRESSEE: MASON & ASSOCIATES, P.A.
STREET: 17757 U.S. HWY. 19 NORTH, SUITE 500
CITY: CLEARWATER
STATE: FLORIDA
COUNTRY: U.S.A.
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: Windows 3.0
SOFTWARE: Microsoft Word 6.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/934,915
FILING DATE: 22-SEP-1997
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/949,836
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: LOUISE A. FOUTCH
REGISTRATION NUMBER: 37,133
REFERENCE/DOCKET NUMBER: 1946.6
TELECOMMUNICATION INFORMATION:
TELEPHONE: 813-538-3800
TELEFAX: 813-538-3820
TELEX:
INFORMATION FOR SEQ ID NO: 66:
SEQUENCE CHARACTERISTICS:
LENGTH: 29 amino acids
TYPE: amino acid

TOPOLOGY: linear
MOLECULE TYPE: peptide
US-08-934-915-66

Query Match 100.0%; Score 58; DB 1; Length 29;
Best Local Similarity 100.0%; Pred. No. 0.012;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 LSFVCPWCA 9
DB 18 LSFVCPWCA 26

RESULT 2
US-09-485-885-16
Sequence 16, Application US/09485885
Patent No. 6342224
GENERAL INFORMATION:
APPLICANT: Bruck, Claudine
APPLICANT: Cabazon Silva, Teresa
APPLICANT: Delisse, Anne-Marie Eva Fernande
APPLICANT: Gerard, Catherine Marie Ghislaine
APPLICANT: Lombardo-Bencheikh, Angela
TITLE OF INVENTION: Vaccine
FILE REFERENCE: B45107
CURRENT APPLICATION NUMBER: US/09/485,885
CURRENT FILING DATE: 2000-02-18
PRIOR APPLICATION NUMBER: PCT/EP98/05285
PRIOR FILING DATE: 1998-08-17
PRIOR APPLICATION NUMBER: GB 9717953.5
PRIOR FILING DATE: 1997-08-22
NUMBER OF SEQ ID NOS: 23
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 16
LENGTH: 227
TYPE: PRT
ORGANISM: Homo sapien
US-09-485-885-16

Query Match 100.0%; Score 58; DB 2; Length 227;
Best Local Similarity 100.0%; Pred. No. 0.081;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 LSFVCPWCA 9
DB 207 LSFVCPWCA 215

RESULT 3
US-09-485-885-19
Sequence 19, Application US/09485885
Patent No. 6342224
GENERAL INFORMATION:
APPLICANT: Bruck, Claudine
APPLICANT: Cabazon Silva, Teresa
APPLICANT: Delisse, Anne-Marie Eva Fernande
APPLICANT: Gerard, Catherine Marie Ghislaine
APPLICANT: Lombardo-Bencheikh, Angela
TITLE OF INVENTION: Vaccine
FILE REFERENCE: B45107
CURRENT APPLICATION NUMBER: US/09/485,885
CURRENT FILING DATE: 2000-02-18
PRIOR APPLICATION NUMBER: PCT/EP98/05285
PRIOR FILING DATE: 1998-08-17
PRIOR APPLICATION NUMBER: GB 9717953.5
PRIOR FILING DATE: 1997-08-22
NUMBER OF SEQ ID NOS: 23
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 19
LENGTH: 227
TYPE: PRT
ORGANISM: Homo sapien
US-09-485-885-19

Query Match 100.0%; Score 58; DB 2; Length 227;
 Best Local Similarity 100.0%; Pred. No. 0.081;
 Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 LSFVCPWCA 9
 |||||
 DB 207 LSFVCPWCA 215

RESULT 4
 US-08-117-083-13
 ; Sequence 13, Application US/08117083
 ; Patent No. 5719054

GENERAL INFORMATION:

APPLICANT: Bourgnell, Michael E.

APPLICANT: Inglis, Stephen C.

APPLICANT: Munro, Alan J.

TITLE OF INVENTION: Recombinant Virus Vectors Encoding Human

TITLE OF INVENTION: Papilloma Virus Proteins

NUMBER OF SEQUENCES: 70

CORRESPONDENCE ADDRESS:

ADDRESSEE: Walter H. Dreyer

STREET: 4 Embarcadero Center, Suite 3400

CITY: San Francisco

STATE: CA

COUNTRY: USA

ZIP: 94111

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patent in Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/117,083

FILING DATE: 10-SEP-1993

CLASSIFICATION: 435

ATTORNEY/AGENT INFORMATION:

NAME: Dreyer, Walter H.

REGISTRATION NUMBER: 24,190

REFERENCE/DOCKET NUMBER: A-58783

TELECOMMUNICATION INFORMATION:

TELEPHONE: 415-781-1989

TELEFAX: 415-398-3249

TELEX: 910 277299

INFORMATION FOR SEQ ID NO: 13:

SEQUENCE CHARACTERISTICS:

LENGTH: 272 amino acids

TYPE: amino acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: protein

FEATURE:

NAME/KEY: Protein

LOCATION: 1..272

OTHER INFORMATION: /note= "Xaa refers to stop codon in

OTHER INFORMATION: the open reading frame."

US-08-117-083-13

Query Match

Best Local Similarity 100.0%; Score 58; DB 1; Length 272;
 Pred. No. 0.096;
 Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 LSFVCPWCA 9
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 DB 257 LSFVCPWCA 265

RESULT 5

US-09-485-885-23

; Sequence 23, Application US/09485885

; Patent No. 6342224

; GENERAL INFORMATION:

APPLICANT: Bruck, Claudine
 APPLICANT: Gabazon Silva, Teresa
 APPLICANT: Delise, Anne-Marie Eva Bernande
 APPLICANT: Gerard, Catherine Marie Ghislaine
 APPLICANT: Lombardo-Bencheikh, Angela

TITLE OF INVENTION: Vaccine

FILE REFERENCE: B45107

CURRENT APPLICATION NUMBER: US/09/485,885

CURRENT FILING DATE: 2000-02-18

PRIOR APPLICATION NUMBER: PCT/EP98/05285

PRIOR FILING DATE: 1998-08-17

PRIOR APPLICATION NUMBER: GB 971953.5

PRIOR FILING DATE: 1997-08-22

NUMBER OF SEQ ID NOS: 23

SOFTWARE: FastSeq for Windows Version 3.0

SEQ ID NO: 23

LENGTH: 383

TYPE: PRT

ORGANISM: Homo sapien

US-09-485-885-23

Query Match

Best Local Similarity 100.0%; Score 58; DB 2; Length 383;
 Pred. No. 0.13;
 Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 LSFVCPWCA 9
 |||||
 DB 363 LSFVCPWCA 371

RESULT 6
 US-09-227-357-444
 ; Sequence 444, Application US/09227357
 ; Patent No. 6342581

GENERAL INFORMATION:

APPLICANT: Fischer et al.

TITLE OF INVENTION: 123 Human Secreted Proteins

FILE REFERENCE: P2010P1

CURRENT APPLICATION NUMBER: US/09/227,357

CURRENT FILING DATE: 1999-01-08

EARLIER APPLICATION NUMBER: PCT/US98/13684

EARLIER FILING DATE: 1998-07-07

EARLIER APPLICATION NUMBER: 60/051,926

EARLIER FILING DATE: 1997-07-08

EARLIER APPLICATION NUMBER: 60/052,793

EARLIER FILING DATE: 1997-07-08

EARLIER APPLICATION NUMBER: 60/051,925

EARLIER FILING DATE: 1997-07-08

EARLIER APPLICATION NUMBER: 60/051,929

EARLIER FILING DATE: 1997-07-08

EARLIER APPLICATION NUMBER: 60/052,803

EARLIER FILING DATE: 1997-07-08

EARLIER APPLICATION NUMBER: 60/052,732

EARLIER FILING DATE: 1997-07-08

EARLIER APPLICATION NUMBER: 60/051,931

EARLIER FILING DATE: 1997-07-08

EARLIER APPLICATION NUMBER: 60/051,932

EARLIER FILING DATE: 1997-07-08

EARLIER APPLICATION NUMBER: 60/051,916

EARLIER FILING DATE: 1997-07-08

EARLIER APPLICATION NUMBER: 60/051,930

EARLIER FILING DATE: 1997-07-08

EARLIER APPLICATION NUMBER: 60/051,918

EARLIER FILING DATE: 1997-07-08

EARLIER APPLICATION NUMBER: 60/051,920

EARLIER FILING DATE: 1997-07-08

EARLIER APPLICATION NUMBER: 60/052,733

EARLIER FILING DATE: 1997-07-08

EARLIER APPLICATION NUMBER: 60/052,795

EARLIER FILING DATE: 1997-07-08

EARLIER APPLICATION NUMBER: 60/051,919

EARLIER FILING DATE: 1997-07-08

EARLIER APPLICATION NUMBER: 60/051,928

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; EARLIER FILING DATE: 1997-07-08
; EARLIER APPLICATION NUMBER: 60/055,722
; EARLIER FILING DATE: 1997-08-18
; EARLIER APPLICATION NUMBER: 60/055,723
; EARLIER FILING DATE: 1997-08-18
; EARLIER APPLICATION NUMBER: 60/055,948
; EARLIER FILING DATE: 1997-08-18
; EARLIER APPLICATION NUMBER: 60/055,949
; EARLIER FILING DATE: 1997-08-18
; EARLIER APPLICATION NUMBER: 60/055,953
; EARLIER FILING DATE: 1997-08-18
; EARLIER APPLICATION NUMBER: 60/055,950
; EARLIER FILING DATE: 1997-08-18
; EARLIER APPLICATION NUMBER: 60/055,947
; EARLIER FILING DATE: 1997-08-18
; EARLIER APPLICATION NUMBER: 60/055,964
; EARLIER FILING DATE: 1997-08-18
; EARLIER APPLICATION NUMBER: 60/056,360
; EARLIER FILING DATE: 1997-08-18
; EARLIER APPLICATION NUMBER: 60/055,684
; EARLIER FILING DATE: 1997-08-18
; EARLIER APPLICATION NUMBER: 60/055,984
; EARLIER FILING DATE: 1997-08-18
; EARLIER APPLICATION NUMBER: 60/055,954
; EARLIER FILING DATE: 1997-08-18
; EARLIER APPLICATION NUMBER: 60/058,785
; EARLIER FILING DATE: 1997-09-12
; EARLIER APPLICATION NUMBER: 60/058,664
; EARLIER FILING DATE: 1997-09-12
; EARLIER APPLICATION NUMBER: 60/058,660
; EARLIER FILING DATE: 1997-09-12
; EARLIER APPLICATION NUMBER: 60/058,661
; EARLIER FILING DATE: 1997-09-12
; NUMBER OF SEQ ID NOS: 672
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 444
; LENGTH: 21
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-227-357-444
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Query Match          75.9%; Score 44; DB 2; Length 21;
Best Local Similarity 100.0%; Pred. No. 1.3;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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QY      4 VCPWCA 9
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Db       2 VCPWCA 7
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RESULT 7
US-09-973-278-572
; Sequence 572, Application US/09973278
; Patent No. 6924354
; GENERAL INFORMATION:
; APPLICANT: Fischer et al.
; TITLE OF INVENTION: 123 Human Secreted Proteins
; FILE REFERENCE: P2010P2
; CURRENT APPLICATION NUMBER: US/09/973,278
; CURRENT FILING DATE: 2001-10-10
; PRIOR APPLICATION NUMBER: 60/239,899
; PRIOR FILING DATE: 2000-10-13
; PRIOR APPLICATION NUMBER: 09/227,357
; PRIOR FILING DATE: 1999-01-08
; PRIOR APPLICATION NUMBER: PCT/US98/13684
; PRIOR FILING DATE: 1998-07-07
; PRIOR APPLICATION NUMBER: 60/051,926
; PRIOR FILING DATE: 1997-07-08
; PRIOR APPLICATION NUMBER: 60/052,793
; PRIOR FILING DATE: 1997-07-08
; PRIOR APPLICATION NUMBER: 60/051,925
; PRIOR FILING DATE: 1997-07-08
; PRIOR APPLICATION NUMBER: 60/051,929
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; PRIOR FILING DATE: 1997-07-08
; PRIOR APPLICATION NUMBER: 60/052,803
; PRIOR FILING DATE: 1997-07-08
; PRIOR APPLICATION NUMBER: 60/052,732
; PRIOR FILING DATE: 1997-07-08
; PRIOR APPLICATION NUMBER: 60/051,931
; PRIOR FILING DATE: 1997-07-08
; PRIOR APPLICATION NUMBER: 60/051,932
; PRIOR FILING DATE: 1997-07-08
; PRIOR APPLICATION NUMBER: 60/051,916
; PRIOR FILING DATE: 1997-07-08
; PRIOR APPLICATION NUMBER: 60/051,930
; PRIOR FILING DATE: 1997-07-08
; PRIOR APPLICATION NUMBER: 60/051,918
; PRIOR FILING DATE: 1997-07-08
; PRIOR APPLICATION NUMBER: 60/051,920
; PRIOR FILING DATE: 1997-07-08
; PRIOR APPLICATION NUMBER: 60/052,733
; PRIOR FILING DATE: 1997-07-08
; PRIOR APPLICATION NUMBER: 60/052,795
; PRIOR FILING DATE: 1997-07-08
; PRIOR APPLICATION NUMBER: 60/051,919
; PRIOR FILING DATE: 1997-07-08
; PRIOR APPLICATION NUMBER: 60/051,928
; PRIOR FILING DATE: 1997-07-08
; PRIOR APPLICATION NUMBER: 60/055,722
; PRIOR FILING DATE: 1997-08-18
; PRIOR APPLICATION NUMBER: 60/055,723
; PRIOR FILING DATE: 1997-08-18
; PRIOR APPLICATION NUMBER: 60/055,948
; PRIOR FILING DATE: 1997-08-18
; PRIOR APPLICATION NUMBER: 60/055,949
; PRIOR FILING DATE: 1997-08-18
; PRIOR APPLICATION NUMBER: 60/055,953
; PRIOR FILING DATE: 1997-08-18
; PRIOR APPLICATION NUMBER: 60/055,950
; PRIOR FILING DATE: 1997-08-18
; PRIOR APPLICATION NUMBER: 60/055,947
; PRIOR FILING DATE: 1997-08-18
; PRIOR APPLICATION NUMBER: 60/055,964
; PRIOR FILING DATE: 1997-08-18
; PRIOR APPLICATION NUMBER: 60/055,984
; PRIOR FILING DATE: 1997-08-18
; PRIOR APPLICATION NUMBER: 60/055,954
; PRIOR FILING DATE: 1997-08-18
; PRIOR APPLICATION NUMBER: 60/058,785
; PRIOR FILING DATE: 1997-09-12
; PRIOR APPLICATION NUMBER: 60/058,664
; PRIOR FILING DATE: 1997-09-12
; PRIOR APPLICATION NUMBER: 60/058,660
; PRIOR FILING DATE: 1997-09-12
; PRIOR APPLICATION NUMBER: 60/058,661
; PRIOR FILING DATE: 1997-09-12
; NUMBER OF SEQ ID NOS: 947
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 572
; LENGTH: 21
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-973-278-572
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Query Match          75.9%; Score 44; DB 2; Length 21;
Best Local Similarity 100.0%; Pred. No. 1.3;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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QY      4 VCPWCA 9
        |||||
Db       2 VCPWCA 7
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RESULT 8
US-09-227-357-443
Sequence 443, Application US/09227357
Patent No. 6342581
GENERAL INFORMATION:
APPLICANT: Fischer et al.
TITLE OF INVENTION: 123 Human Secreted Proteins
FILE REFERENCE: P2010P1
CURRENT APPLICATION NUMBER: US/09/227,357
EARLIER APPLICATION NUMBER: PCT/US98/13684
EARLIER FILING DATE: 1998-01-08
EARLIER APPLICATION NUMBER: 60/051,926
EARLIER FILING DATE: 1998-07-07
EARLIER APPLICATION NUMBER: 60/051,926
EARLIER FILING DATE: 1997-07-08
EARLIER APPLICATION NUMBER: 60/052,793
EARLIER FILING DATE: 1997-07-08
EARLIER APPLICATION NUMBER: 60/051,925
EARLIER FILING DATE: 1997-07-08
EARLIER APPLICATION NUMBER: 60/051,929
EARLIER FILING DATE: 1997-07-08
EARLIER APPLICATION NUMBER: 60/052,803
EARLIER FILING DATE: 1997-07-08
EARLIER APPLICATION NUMBER: 60/052,732
EARLIER FILING DATE: 1997-07-08
EARLIER APPLICATION NUMBER: 60/051,931
EARLIER FILING DATE: 1997-07-08
EARLIER APPLICATION NUMBER: 60/051,932
EARLIER FILING DATE: 1997-07-08
EARLIER APPLICATION NUMBER: 60/051,916
EARLIER FILING DATE: 1997-07-08
EARLIER APPLICATION NUMBER: 60/051,930
EARLIER FILING DATE: 1997-07-08
EARLIER APPLICATION NUMBER: 60/051,918
EARLIER FILING DATE: 1997-07-08
EARLIER APPLICATION NUMBER: 60/051,920
EARLIER FILING DATE: 1997-07-08
EARLIER APPLICATION NUMBER: 60/052,733
EARLIER FILING DATE: 1997-07-08
EARLIER APPLICATION NUMBER: 60/052,795
EARLIER FILING DATE: 1997-07-08
EARLIER APPLICATION NUMBER: 60/051,919
EARLIER FILING DATE: 1997-07-08
EARLIER APPLICATION NUMBER: 60/051,928
EARLIER FILING DATE: 1997-07-08
EARLIER APPLICATION NUMBER: 60/055,722
EARLIER FILING DATE: 1997-08-18
EARLIER APPLICATION NUMBER: 60/055,723
EARLIER FILING DATE: 1997-08-18
EARLIER APPLICATION NUMBER: 60/055,948
EARLIER FILING DATE: 1997-08-18
EARLIER APPLICATION NUMBER: 60/055,949
EARLIER FILING DATE: 1997-08-18
EARLIER APPLICATION NUMBER: 60/055,953
EARLIER FILING DATE: 1997-08-18
EARLIER APPLICATION NUMBER: 60/055,950
EARLIER FILING DATE: 1997-08-18
EARLIER APPLICATION NUMBER: 60/055,947
EARLIER FILING DATE: 1997-08-18
EARLIER APPLICATION NUMBER: 60/055,964
EARLIER FILING DATE: 1997-08-18
EARLIER APPLICATION NUMBER: 60/056,360
EARLIER FILING DATE: 1997-08-18
EARLIER APPLICATION NUMBER: 60/055,684
EARLIER FILING DATE: 1997-08-18
EARLIER APPLICATION NUMBER: 60/055,984
EARLIER FILING DATE: 1997-08-18
EARLIER APPLICATION NUMBER: 60/055,954
EARLIER FILING DATE: 1997-08-18
EARLIER APPLICATION NUMBER: 60/058,785
EARLIER FILING DATE: 1997-09-12
EARLIER APPLICATION NUMBER: 60/058,664
EARLIER FILING DATE: 1997-09-12

EARLIER APPLICATION NUMBER: 60/058,660
EARLIER FILING DATE: 1997-09-12
EARLIER APPLICATION NUMBER: 60/058,661
EARLIER FILING DATE: 1997-09-12
NUMBER OF SEQ ID NOS: 672
SOFTWARE: Patent In Ver. 2.0
SEQ ID NO 443
LENGTH: 149
TYPE: PRT
ORGANISM: Homo sapiens
US-09-227-357-443
Query Match 75.9% Score 44; DB 2; Length 149;
Best Local Similarity 100.0%; Pred. No. 8.4;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 4 VCPWCA 9
DB 11 VCPWCA 16
RESULT 9
US-09-973-278-571
Sequence 571, Application US/09973278
Patent No. 6924354
GENERAL INFORMATION:
APPLICANT: Fischer et al.
TITLE OF INVENTION: 123 Human Secreted Proteins
FILE REFERENCE: P2010P2
CURRENT APPLICATION NUMBER: US/09/973,278
CURRENT FILING DATE: 2001-10-10
PRIOR APPLICATION NUMBER: 60/239,899
PRIOR FILING DATE: 2000-10-13
PRIOR APPLICATION NUMBER: 09/227,357
PRIOR FILING DATE: 1999-01-08
PRIOR APPLICATION NUMBER: PCT/US98/13684
PRIOR FILING DATE: 1998-07-07
PRIOR APPLICATION NUMBER: 60/051,926
PRIOR FILING DATE: 1997-07-08
PRIOR APPLICATION NUMBER: 60/052,793
PRIOR FILING DATE: 1997-07-08
PRIOR APPLICATION NUMBER: 60/051,925
PRIOR FILING DATE: 1997-07-08
PRIOR APPLICATION NUMBER: 60/051,929
PRIOR FILING DATE: 1997-07-08
PRIOR APPLICATION NUMBER: 60/052,803
PRIOR FILING DATE: 1997-07-08
PRIOR APPLICATION NUMBER: 60/052,732
PRIOR FILING DATE: 1997-07-08
PRIOR APPLICATION NUMBER: 60/051,931
PRIOR FILING DATE: 1997-07-08
PRIOR APPLICATION NUMBER: 60/051,932
PRIOR FILING DATE: 1997-07-08
PRIOR APPLICATION NUMBER: 60/051,916
PRIOR FILING DATE: 1997-07-08
PRIOR APPLICATION NUMBER: 60/051,930
PRIOR FILING DATE: 1997-07-08
PRIOR APPLICATION NUMBER: 60/051,918
PRIOR FILING DATE: 1997-07-08
PRIOR APPLICATION NUMBER: 60/051,920
PRIOR FILING DATE: 1997-07-08
PRIOR APPLICATION NUMBER: 60/052,733
PRIOR FILING DATE: 1997-07-08
PRIOR APPLICATION NUMBER: 60/052,795
PRIOR FILING DATE: 1997-07-08
PRIOR APPLICATION NUMBER: 60/051,919
PRIOR FILING DATE: 1997-07-08
PRIOR APPLICATION NUMBER: 60/051,928
PRIOR FILING DATE: 1997-07-08
PRIOR APPLICATION NUMBER: 60/055,722
PRIOR FILING DATE: 1997-08-18
PRIOR APPLICATION NUMBER: 60/055,723
PRIOR FILING DATE: 1997-08-18

PRIOR APPLICATION NUMBER: 60/055,948
PRIOR FILING DATE: 1997-08-18
PRIOR APPLICATION NUMBER: 60/055,949
PRIOR FILING DATE: 1997-08-18
PRIOR APPLICATION NUMBER: 60/055,953
PRIOR FILING DATE: 1997-08-18
PRIOR APPLICATION NUMBER: 60/055,950
PRIOR FILING DATE: 1997-08-18
PRIOR APPLICATION NUMBER: 60/055,947
PRIOR FILING DATE: 1997-08-18
PRIOR APPLICATION NUMBER: 60/055,964
PRIOR FILING DATE: 1997-08-18
PRIOR APPLICATION NUMBER: 60/056,360
PRIOR FILING DATE: 1997-08-18
PRIOR APPLICATION NUMBER: 60/055,684
PRIOR FILING DATE: 1997-08-18
PRIOR APPLICATION NUMBER: 60/055,984
PRIOR FILING DATE: 1997-08-18
PRIOR APPLICATION NUMBER: 60/055,954
PRIOR FILING DATE: 1997-08-18
PRIOR APPLICATION NUMBER: 60/058,785
PRIOR FILING DATE: 1997-09-12
PRIOR APPLICATION NUMBER: 60/058,664
PRIOR FILING DATE: 1997-09-12
PRIOR APPLICATION NUMBER: 60/058,660
PRIOR FILING DATE: 1997-09-12
PRIOR APPLICATION NUMBER: 60/058,661
PRIOR FILING DATE: 1997-09-12
NUMBER OF SEQ ID NOS: 947
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 571
LENGTH: 149
TYPE: PRT
ORGANISM: Homo sapiens
US-09-973-278-571

Query Match 75.9%; Score 44; DB 2; Length 149;
Best Local Similarity 100.0%; Pred. No. 8, 4;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 4 VCPWCA 9
DB 11 VCPWCA 16
RESULT 10
US-09-902-540-11760
Sequence 11760, Application US/09902540
Patent No. 6833447
GENERAL INFORMATION:
APPLICANT: Goldman, Barry S.
APPLICANT: Hinkle, Gregory J.
APPLICANT: Slater, Steven C.
APPLICANT: Wiegand, Roger C.
TITLE OF INVENTION: Myxococcus xanthus Genome Sequences and Uses Thereof
FILE REFERENCE: 38-10(15849)B
CURRENT APPLICATION NUMBER: US/09/902,540
CURRENT FILING DATE: 2001-07-10
PRIOR APPLICATION NUMBER: 60/217,883
PRIOR FILING DATE: 2000-07-10
NUMBER OF SEQ ID NOS: 16825
SEQ ID NO 11760
LENGTH: 206
TYPE: PRT
ORGANISM: Myxococcus xanthus
US-09-902-540-11760

Query Match 74.1%; Score 43; DB 2; Length 206;
Best Local Similarity 83.3%; Pred. No. 16;
Matches 5; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
QY 3 FVCPWC 8
:|||||

DB 13 VCPWCA 18
RESULT 11
US-09-323-872A-35
Sequence 35, Application US/09323872A
Patent No. 6395539
GENERAL INFORMATION:
APPLICANT: Coschigano, Peter
TITLE OF INVENTION: Compositions and Methods for Bioremediation
FILE REFERENCE: OHU-03640
CURRENT APPLICATION NUMBER: US/09/323,872A
CURRENT FILING DATE: 2001-06-15
PRIOR APPLICATION NUMBER: 09/072,433
PRIOR FILING DATE: 1998-05-04
NUMBER OF SEQ ID NOS: 58
SOFTWARE: Patentin version 3.0
SEQ ID NO 35
LENGTH: 292
TYPE: PRT
ORGANISM: Escherichia coli
US-09-323-872A-35

Query Match 70.7%; Score 41; DB 2; Length 292;
Best Local Similarity 83.3%; Pred. No. 47;
Matches 5; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 4 VCPWCA 9
DB 50 LCPWCA 55

RESULT 12
US-09-072-433-37
Sequence 37, Application US/09072433
Patent No. 6551814
GENERAL INFORMATION:
APPLICANT: Coschigano, Peter W.
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR
TITLE OF INVENTION: BIOREMEDIATION
NUMBER OF SEQUENCES: 42
CORRESPONDENCE ADDRESS:
ADDRESSEE: Medien & Carroll, LLP
STREET: 220 Montgomery Street, Suite 2200
CITY: San Francisco
STATE: California
COUNTRY: United States of America
ZIP: 94104
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/072,433
FILING DATE: 04-MAY-1998
CLASSIFICATION: 514
ATTORNEY/AGENT INFORMATION:
NAME: Carroll, Peter G.
REGISTRATION NUMBER: 32,837
REFERENCE/DOCKET NUMBER: OHU-03344
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 705-8410
TELEFAX: (415) 397-8338
INFORMATION FOR SEQ ID NO: 37:
SEQUENCE CHARACTERISTICS:
LENGTH: 292 amino acids
TYPE: amino acid
STRANDEDNESS: not relevant
TOPOLOGY: linear
MOLECULE TYPE: protein
US-09-072-433-37

Query Match 70.7%; Score 41; DB 2; Length 292;
Best Local Similarity 83.3%; Pred. No. 47;
Matches 5; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 4 VCPWCA 9
| | | | |
Db 50 LCPWCA 55

RESULT 13
US-09-252-991A-24123
; Sequence 24123, Application US/09252991A

; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS

FILE REFERENCE: 107196.136
CURRENT APPLICATION NUMBER: US/09/252,991A

CURRENT FILING DATE: 1999-02-18

PRIOR APPLICATION NUMBER: US 60/074,788

PRIOR FILING DATE: 1998-02-18

PRIOR APPLICATION NUMBER: US 60/094,190

PRIOR FILING DATE: 1998-07-27

NUMBER OF SEQ ID NOS: 33142

SEQ ID NO 24123

LENGTH: 119

TYPE: PRT

ORGANISM: Pseudomonas aeruginosa

US-09-252-991A-24123

Query Match 69.0%; Score 40; DB 2; Length 119;
Best Local Similarity 100.0%; Pred. No. 29;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 5 CPWCA 9
| | | | |
Db 17 CPWCA 21

RESULT 14
US-09-489-039A-7442
; Sequence 7442, Application US/09489039A

Patent No. 6610836

GENERAL INFORMATION:

APPLICANT: Gary Breton et. al

TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO KLEBSIELLA

TITLE OF INVENTION: PNEUMONIAE FOR DIAGNOSTICS AND THERAPEUTICS

FILE REFERENCE: 2709.2004001

CURRENT APPLICATION NUMBER: US/09/489,039A

CURRENT FILING DATE: 2000-01-27

PRIOR APPLICATION NUMBER: US 60/117,747

PRIOR FILING DATE: 1999-01-29

NUMBER OF SEQ ID NOS: 14342

SEQ ID NO 7442

LENGTH: 351

TYPE: PRT

ORGANISM: Klebsiella pneumoniae

US-09-489-039A-7442

Query Match 69.0%; Score 40; DB 2; Length 351;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 5 CPWCA 9
| | | | |
Db 110 CPWCA 114

RESULT 15
US-09-252-991A-30618
; Sequence 30618, Application US/09252991A
; Patent No. 6551795

GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS

FILE REFERENCE: 107196.136
CURRENT APPLICATION NUMBER: US/09/252,991A

CURRENT FILING DATE: 1999-02-18

PRIOR APPLICATION NUMBER: US 60/074,788

PRIOR FILING DATE: 1998-02-18

PRIOR APPLICATION NUMBER: US 60/094,190

PRIOR FILING DATE: 1998-07-27

NUMBER OF SEQ ID NOS: 33142

SEQ ID NO 30618

LENGTH: 327

TYPE: PRT

ORGANISM: Pseudomonas aeruginosa

US-09-252-991A-30618

Query Match 66.4%; Score 38.5; DB 2; Length 327;
Best Local Similarity 70.0%; Pred. No. 1,3e+02;
Matches 7; Conservative 1; Mismatches 1; Indels 1; Gaps 1;

Qy 1 LSFVC-PMCA 9
| | | | |
Db 196 LSTICLPMCA 205

RESULT 16
US-09-099-631A-4
; Sequence 4, Application US/09099631A

Patent No. 6444645

GENERAL INFORMATION:

APPLICANT: Selected, Michael E.

TITLE OF INVENTION: Crosslink-Stabilized Indolicidin Analogs

FILE REFERENCE: P-UC 3050

CURRENT APPLICATION NUMBER: US/09/099,631A

CURRENT FILING DATE: 1998-06-18

NUMBER OF SEQ ID NOS: 13

SOFTWARE: Patentin Ver. 2.1

SEQ ID NO 4

LENGTH: 13

TYPE: PRT

ORGANISM: Artificial Sequence

FEATURE:

NAME/KEY: MOD RES

LOCATION: (13)

OTHER INFORMATION: AMIDATION

OTHER INFORMATION: Description of Artificial Sequence: Synthetic

OTHER INFORMATION: Construct

US-09-099-631A-4

Query Match 65.5%; Score 38; DB 2; Length 13;
Best Local Similarity 62.5%; Pred. No. 7.2;
Matches 5; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Qy 1 LSFVCPMC 8
| | | | |
Db 2 LPMKCPMC 9

RESULT 17
US-09-248-796A-16891
; Sequence 16891, Application US/09248796A

Patent No. 6747137

GENERAL INFORMATION:

APPLICANT: Keith Weinstock et al

TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDA ALBICANS

TITLE OF INVENTION: FOR DIAGNOSTICS AND THERAPEUTICS

FILE REFERENCE: 107196.132

CURRENT APPLICATION NUMBER: US/09/248,796A

CURRENT FILING DATE: 1999-02-12

PRIOR APPLICATION NUMBER: US 60/074,725

;; PRIOR FILING DATE: 1998-02-13
;; PRIOR APPLICATION NUMBER: US 60/096,409
;; PRIOR FILING DATE: 1998-08-13
;; NUMBER OF SEQ ID NOS: 28208
;; SEQ ID NO 16891
;; LENGTH: 140
;; TYPE: PRT
;; ORGANISM: Candida albicans
US-09-248-796A-16891

Query Match 65.5%; Score 38; DB 2; Length 140;
Best Local Similarity 71.4%; Pred. No. 68;
Matches 5; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 LSFVCPW 7
Db 44 VSFACPW 50

RESULT 18
US-09-205-258-447
; Sequence 447, Application US/09205258
; Patent No. 6525174
; GENERAL INFORMATION:
; APPLICANT: Young et al.
; TITLE OF INVENTION: 207 Human Secreted Proteins
; FILE REFERENCE: P2007P1
; CURRENT APPLICATION NUMBER: US/09/205,258
; EARLIER FILING DATE: 1998-12-04
; EARLIER APPLICATION NUMBER: PCT/US98/11422
; EARLIER FILING DATE: 1998-06-04
; EARLIER APPLICATION NUMBER: 60/048,885
; EARLIER FILING DATE: 1997-06-06
; EARLIER APPLICATION NUMBER: 60/049,375
; EARLIER FILING DATE: 1997-06-06
; EARLIER APPLICATION NUMBER: 60/048,881
; EARLIER FILING DATE: 1997-06-06
; EARLIER APPLICATION NUMBER: 60/048,880
; EARLIER FILING DATE: 1997-06-06
; EARLIER APPLICATION NUMBER: 60/048,896
; EARLIER FILING DATE: 1997-06-06
; EARLIER APPLICATION NUMBER: 60/049,020
; EARLIER FILING DATE: 1997-06-06
; EARLIER APPLICATION NUMBER: 60/048,876
; EARLIER FILING DATE: 1997-06-06
; EARLIER APPLICATION NUMBER: 60/048,895
; EARLIER FILING DATE: 1997-06-06
; EARLIER APPLICATION NUMBER: 60/048,884
; EARLIER FILING DATE: 1997-06-06
; EARLIER APPLICATION NUMBER: 60/048,894
; EARLIER FILING DATE: 1997-06-06
; EARLIER APPLICATION NUMBER: 60/048,971
; EARLIER FILING DATE: 1997-06-06
; EARLIER APPLICATION NUMBER: 60/048,964
; EARLIER FILING DATE: 1997-06-06
; EARLIER APPLICATION NUMBER: 60/048,882
; EARLIER FILING DATE: 1997-06-06
; EARLIER APPLICATION NUMBER: 60/048,899
; EARLIER FILING DATE: 1997-06-06
; EARLIER APPLICATION NUMBER: 60/048,893
; EARLIER FILING DATE: 1997-06-06
; EARLIER APPLICATION NUMBER: 60/048,900
; EARLIER FILING DATE: 1997-06-06
; EARLIER APPLICATION NUMBER: 60/048,901
; EARLIER FILING DATE: 1997-06-06
; EARLIER APPLICATION NUMBER: 60/048,892
; EARLIER FILING DATE: 1997-06-06
; EARLIER APPLICATION NUMBER: 60/048,915
; EARLIER FILING DATE: 1997-06-06
; EARLIER APPLICATION NUMBER: 60/049,019
; EARLIER FILING DATE: 1997-06-06
; EARLIER APPLICATION NUMBER: 60/048,970
; EARLIER FILING DATE: 1997-06-06

;; EARLIER APPLICATION NUMBER: 60/048,972
;; EARLIER FILING DATE: 1997-06-06
;; EARLIER APPLICATION NUMBER: 60/048,916
;; EARLIER FILING DATE: 1997-06-06
;; EARLIER APPLICATION NUMBER: 60/049,373
;; EARLIER FILING DATE: 1997-06-06
;; EARLIER APPLICATION NUMBER: 60/048,875
;; EARLIER FILING DATE: 1997-06-06
;; EARLIER APPLICATION NUMBER: 60/049,374
;; EARLIER FILING DATE: 1997-06-06
;; EARLIER APPLICATION NUMBER: 60/048,917
;; EARLIER FILING DATE: 1997-06-06
;; EARLIER APPLICATION NUMBER: 60/048,949
;; EARLIER FILING DATE: 1997-06-06
;; EARLIER APPLICATION NUMBER: 60/048,974
;; EARLIER FILING DATE: 1997-06-06
;; EARLIER APPLICATION NUMBER: 60/048,883
;; EARLIER FILING DATE: 1997-06-06
;; EARLIER APPLICATION NUMBER: 60/048,897
;; EARLIER FILING DATE: 1997-06-06
;; EARLIER APPLICATION NUMBER: 60/048,898
;; EARLIER FILING DATE: 1997-06-06
;; EARLIER APPLICATION NUMBER: 60/048,962
;; EARLIER FILING DATE: 1997-06-06
;; EARLIER APPLICATION NUMBER: 60/048,963
;; EARLIER FILING DATE: 1997-06-06
;; EARLIER APPLICATION NUMBER: 60/048,877
;; EARLIER FILING DATE: 1997-06-06
;; EARLIER APPLICATION NUMBER: 60/048,878
;; EARLIER FILING DATE: 1997-06-06
;; EARLIER APPLICATION NUMBER: 60/070,923
;; EARLIER FILING DATE: 1997-12-18
;; EARLIER APPLICATION NUMBER: 60/092,921
;; EARLIER FILING DATE: 1998-07-15
;; EARLIER APPLICATION NUMBER: 60/094,657
;; EARLIER FILING DATE: 1998-07-30
;; NUMBER OF SEQ ID NOS: 1227
;; SOFTWARE: PatentIn Ver. 2.0
;; SEQ ID NO 447
;; LENGTH: 37
;; TYPE: PRT
;; ORGANISM: Homo sapiens
;; FEATURE:
;; NAME/KEY: SITE
;; LOCATION: (31)
;; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
;; NAME/KEY: SITE
;; LOCATION: (37)
;; OTHER INFORMATION: Xaa equals stop translation
US-09-205-258-447
Query Match 63.8%; Score 37; DB 2; Length 37;
Best Local Similarity 80.0%; Pred. No. 28;
Matches 4; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 5 CPWCA 9
Db 23 CPWCS 27

RESULT 19
US-10-004-860-447
; Sequence 447, Application US/10004860
; Patent No. 6914047
; GENERAL INFORMATION:
; APPLICANT: Young et al.
; TITLE OF INVENTION: 207 Human Secreted Proteins
; FILE REFERENCE: P2007P1
; CURRENT APPLICATION NUMBER: US/10/004,860
; CURRENT FILING DATE: 2001-12-07
; Prior Application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 1227

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SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 447
; LENGTH: 37
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE: SITE
; NAME/KEY: SITE
; LOCATION: (31)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
; FEATURE:
; NAME/KEY: SITE
; LOCATION: (37)
; OTHER INFORMATION: Xaa equals stop translation
; US-10-004-860-447

Query Match
Best Local Similarity 63.8%; Score 37; DB 2; Length 37;
Pred. No. 28;
Matches 4; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 5 CPWCA 9
Db 23 CPWCS 27

RESULT 20
US-09-621-976-7707
; Sequence 7707, Application US/09621976
; Patent No. 6639063
; GENERAL INFORMATION:
; APPLICANT: Dumas Milne Edwards, J.B.
; APPLICANT: Jobert, S.
; APPLICANT: Giordano, J.Y.
; TITLE OF INVENTION: ESTs and Encoded Human Proteins.
; FILE REFERENCE: GENSET 054PR2
; CURRENT APPLICATION NUMBER: US/09/621.976
; CURRENT FILING DATE: 2000-07-21
; NUMBER OF SEQ ID NOS: 19335
; SOFTWARE: Patent.pm
; SEQ ID NO 7707
; LENGTH: 81
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: UNSURE
; LOCATION: 45
; OTHER INFORMATION: Xaa = His, Gln
; US-09-621-976-7707

Query Match
Best Local Similarity 63.8%; Score 37; DB 2; Length 81;
Pred. No. 58;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 LSPVCPWC 8
Db 66 LSPFCPIC 73

RESULT 21
US-09-949-016-9485
; Sequence 9485, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CLO01307
; CURRENT APPLICATION NUMBER: US/09/949.016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
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PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 9485
; LENGTH: 215
; TYPE: PRT
; ORGANISM: Human
; US-09-949-016-9485

Query Match
Best Local Similarity 63.8%; Score 37; DB 2; Length 215;
Pred. No. 1.5e+02;
Matches 4; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 5 CPWCA 9
Db 4 CPWCS 8

RESULT 22
US-09-252-991A-23069
; Sequence 23069, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252.991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 23069
; LENGTH: 238
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
; US-09-252-991A-23069

Query Match
Best Local Similarity 63.8%; Score 37; DB 2; Length 238;
Pred. No. 1.6e+02;
Matches 4; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 4 VCPWC 8
Db 112 LCPWC 116

RESULT 23
US-09-583-110-4107
; Sequence 4107, Application US/09583110
; Patent No. 6699703
; GENERAL INFORMATION:
; APPLICANT: Lynn Doucette-Stamm et al.
; TITLE OF INVENTION: Nucleic Acid and Amino Acid Sequences Relating to Streptococcus
; Pneumoniae for Diagnostics and Therapeutics
; FILE REFERENCE: PATH00-07A
; CURRENT APPLICATION NUMBER: US/09/583.110
; CURRENT FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: US 09/107,433
; PRIOR FILING DATE: 1998-06-30
; PRIOR APPLICATION NUMBER: US 60/085,131
; PRIOR FILING DATE: 1998-05-12
; PRIOR APPLICATION NUMBER: US 60/051,553
; PRIOR FILING DATE: 1997-07-02
; NUMBER OF SEQ ID NOS: 5322
; SEQ ID NO 4107
; LENGTH: 258
; TYPE: PRT
; ORGANISM: Streptococcus pneumoniae
; US-09-583-110-4107
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Query Match 63.8%; Score 37; DB 2; Length 258;
Best Local Similarity 80.0%; Pred. No. 1.7e+02;
Matches 4; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 5 CPWCA 9
||||:
Db 35 CPWCS 39

RESULT 24

US-09-252-991A-19436
; Sequence 19436, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; PRIOR FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 19436
; LENGTH: 261
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-19436

Query Match 63.8%; Score 37; DB 2; Length 261;
Best Local Similarity 80.0%; Pred. No. 1.8e+02;
Matches 4; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 5 CPWCA 9
||||:
Db 4 CPWCS 8

RESULT 25

US-09-107-433-2368
; Sequence 2368, Application US/09107433
; Patent No. 6800744
; GENERAL INFORMATION:
; APPLICANT: Lynn A Doucette-Stamm and David Bush
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID
; SEQUENCES RELATING TO STREPTOCOCCUS PNEUMONIAE FOR DIAGNO
; THERAPEUTICS
; NUMBER OF SEQUENCES: 5206
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: GENOME THERAPEUTICS CORPORATION
; STREET: 100 Beaver Street
; CITY: Waltham
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02354
; COMPUTER READABLE FORM:
; MEDIUM TYPE: CD-ROM ISO9660
; COMPUTER: <Unknown>
; OPERATING SYSTEM: <Unknown>
; SOFTWARE: <Unknown>
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/107,433
; FILING DATE: 30-Jun-1998
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 60/ 085131
; FILING DATE: May 12, 1998
; APPLICATION NUMBER: 60/051553
; FILING DATE: July 2, 1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Arinello, Pamela Denek
; REGISTRATION NUMBER: 40,489

REFERENCE/DOCKET NUMBER: GTC-011
TELECOMMUNICATION INFORMATION:
TELEPHONE: (781)893-5007
TELEFAX: (781)893-8277

INFORMATION FOR SEQ ID NO: 2968:

SEQUENCE CHARACTERISTICS:

LENGTH: 263 amino acids

TYPE: amino acid

TOPOLOGY: linear

MOLECULE TYPE: protein

HYPOTHETICAL: YES

ORIGINAL SOURCE:

ORGANISM: Streptococcus pneumoniae

FEATURE:

NAME/KEY: misc_feature

LOCATION: (1) LOCATION 1..263

SEQUENCE DESCRIPTION: SEQ ID NO: 2968:

US-09-107-433-2368

Query Match 63.8%; Score 37; DB 2; Length 263;
Best Local Similarity 80.0%; Pred. No. 1.8e+02;
Matches 4; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 5 CPWCA 9
||||:
Db 40 CPWCS 44

RESULT 26

US-09-543-681A-7304
; Sequence 7304, Application US/09543681A
; Patent No. 6605709
; GENERAL INFORMATION:
; APPLICANT: GARY BRETON
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PROTEUS MIRABILIS
; FILE REFERENCE: 2709.1002-001
; CURRENT APPLICATION NUMBER: US/09/543,681A
; PRIOR FILING DATE: 2000-04-05
; PRIOR APPLICATION NUMBER: US 60/128,706
; PRIOR FILING DATE: 1999-04-09
; NUMBER OF SEQ ID NOS: 8344
; SEQ ID NO 7304
; LENGTH: 323
; TYPE: PRT
; ORGANISM: Proteus mirabilis
US-09-543-681A-7304

Query Match 63.8%; Score 37; DB 2; Length 323;
Best Local Similarity 80.0%; Pred. No. 2.2e+02;
Matches 4; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 5 CPWCA 9
||||:
Db 45 CPWCS 49

RESULT 27

US-08-818-112-69
; Sequence 69, Application US/08818112
; Patent No. 6290969
; GENERAL INFORMATION:
; APPLICANT: Reed, Steven G.
; APPLICANT: Skeiky, Yasir A.W.
; APPLICANT: Dillon, Davin C.
; APPLICANT: Campos-Neto, Antonio
; APPLICANT: Houghton, Raymond
; APPLICANT: Vedvick, Thomas S.
; APPLICANT: Twardzik, Daniel R.
; TITLE OF INVENTION: COMPOUNDS AND METHODS FOR IMMUNOTHERAPY
; TITLE OF INVENTION: AND DIAGNOSIS OF TUBERCULOSIS
; NUMBER OF SEQUENCES: 153
; CORRESPONDENCE ADDRESS:

ADDRESSEE: SEED and BERRY LLP
STREET: 6300 Columbia Center, 701 Fifth Avenue
CITY: Seattle
STATE: Washington
COUNTRY: USA
ZIP: 98104-7092
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/818,112
FILING DATE: 13-MAR-1997
CLASSIFICATION: 424
ATTORNEY/AGENT INFORMATION:
NAME: Maki, David J.
REGISTRATION NUMBER: 31,392
REFERENCE/DOCKET NUMBER: 210121.411C6
TELECOMMUNICATION INFORMATION:
TELEPHONE: (206) 622-4900
TELEFAX: (206) 682-6031
INFORMATION FOR SEQ ID NO: 69:
SEQUENCE CHARACTERISTICS:
LENGTH: 344 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
US-08-818-112-69

Query Match 63.8%; Score 37; DB 2; Length 344;
Best Local Similarity 71.4%; Pred. No. 2.3e+02;
Matches 5; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2 SFVCPWC 8
DB 78 SLRCPWC 84

RESULT 28
US-08-818-111-70
Sequence 70, Application US/08818111
Patent No. 6338852
GENERAL INFORMATION:
APPLICANT: Reed, Steven G.
APPLICANT: Skeiky, Yasir A.W.
APPLICANT: Dillon, Davin C.
APPLICANT: Campos-Neto, Antonia
APPLICANT: Houghton, Raymond
APPLICANT: Vedvick, Thomas S.
APPLICANT: Twardzik, Daniel R.
TITLE OF INVENTION: COMPOUNDS AND METHODS FOR DIAGNOSIS OF
NUMBER OF SEQUENCES: 148
CORRESPONDENCE ADDRESS:
ADDRESSEE: SEED and BERRY LLP
STREET: 6300 Columbia Center, 701 Fifth Avenue
CITY: Seattle
STATE: Washington
COUNTRY: USA
ZIP: 98104-7092
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/818,111
FILING DATE: 13-MAR-1997
CLASSIFICATION: 424
ATTORNEY/AGENT INFORMATION:
NAME: Maki, David J.
REGISTRATION NUMBER: 31,392
REFERENCE/DOCKET NUMBER: 210121.417C6

TELECOMMUNICATION INFORMATION:
TELEPHONE: (206) 622-4900
TELEFAX: (206) 682-6031
INFORMATION FOR SEQ ID NO: 70:
SEQUENCE CHARACTERISTICS:
LENGTH: 344 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
US-08-818-111-70

Query Match 63.8%; Score 37; DB 2; Length 344;
Best Local Similarity 71.4%; Pred. No. 2.3e+02;
Matches 5; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2 SFVCPWC 8
DB 78 SLRCPWC 84

RESULT 29
US-09-056-556-69
Sequence 69, Application US/09056556
Patent No. 6350456
GENERAL INFORMATION:
APPLICANT: Reed, Steven G.
APPLICANT: Skeiky, Yasir A.W.
APPLICANT: Dillon, Davin C.
TITLE OF INVENTION: COMPOUNDS AND METHODS FOR THE PREVENTION AND
NUMBER OF SEQUENCES: 241
CORRESPONDENCE ADDRESS:
ADDRESSEE: SEED and BERRY LLP
STREET: 6300 Columbia Center, 701 Fifth Avenue
CITY: Seattle
STATE: Washington
COUNTRY: USA
ZIP: 98104-7092
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/056,556
FILING DATE: 07-APR-1998
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: Maki, David J.
REGISTRATION NUMBER: 31,392
REFERENCE/DOCKET NUMBER: 210121.457
TELECOMMUNICATION INFORMATION:
TELEPHONE: (206) 622-4900
TELEFAX: (206) 682-6031
INFORMATION FOR SEQ ID NO: 69:
SEQUENCE CHARACTERISTICS:
LENGTH: 344 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
US-09-056-556-69

Query Match 63.8%; Score 37; DB 2; Length 344;
Best Local Similarity 71.4%; Pred. No. 2.3e+02;
Matches 5; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2 SFVCPWC 8
DB 78 SLRCPWC 84

RESULT 30
US-09-072-596-70
Sequence 70, Application US/09072596

Patent No. 6458366
GENERAL INFORMATION:
APPLICANT: Reed, Steven G.
APPLICANT: Skeiky, Yasar A.W.
APPLICANT: Dillon, Davin C.
APPLICANT: Campos-Neto, Antonia
APPLICANT: Houghton, Raymond
APPLICANT: Vedvick, Thomas S.
APPLICANT: Twardzik, Daniel R.
APPLICANT: Lodes, Michael J.
APPLICANT: Hendrickson, Ronald C.
TITLE OF INVENTION: COMPOUNDS AND METHODS FOR DIAGNOSIS OF
TUBERCULOSIS
NUMBER OF SEQUENCES: 350
CORRESPONDENCE ADDRESS:
ADDRESSEE: SEED and BERRY LLP
STREET: 6300 Columbia Center, 701 Fifth Avenue
CITY: Seattle
STATE: Washington
COUNTRY: USA
ZIP: 98104-7092
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/072,596
FILING DATE: 05-MAY-1998
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: Maki, David J.
REGISTRATION NUMBER: 31,392
REFERENCE/DOCKET NUMBER: 210121.417C9
TELEPHONE: (206) 622-4900
TELEFAX: (206) 682-6031
INFORMATION FOR SEQ ID NO: 70:
SEQUENCE CHARACTERISTICS:
LENGTH: 344 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
US-09-072-596-70

Query Match 63.8%; Score 37; DB 2; Length 344;
Best Local Similarity 71.4%; Pred. No. 2.3e+02;
Matches 5; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2 SFVCPWC 8
DB 78 SLRCPWC 84

RESULT 31
US-09-072-967-69
Sequence 69, Application US/09072967
Patent No. 6592877
GENERAL INFORMATION:
APPLICANT: Reed, Steven G.
APPLICANT: Skeiky, Yasar A.W.
APPLICANT: Dillon, Davin C.
APPLICANT: Campos-Neto, Antonio
APPLICANT: Houghton, Raymond
APPLICANT: Vedvick, Thomas S.
APPLICANT: Twardzik, Daniel R.
APPLICANT: Lodes, Michael J.
APPLICANT: Hendrickson, Ronald C.
TITLE OF INVENTION: COMPOUNDS AND METHODS FOR IMMUNOTHERAPY
TUBERCULOSIS
NUMBER OF SEQUENCES: 355
CORRESPONDENCE ADDRESS:
ADDRESSEE: SEED and BERRY LLP
STREET: 6300 Columbia Center, 701 Fifth Avenue

CITY: Seattle
STATE: Washington
COUNTRY: USA
ZIP: 98104-7092
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/072,967
FILING DATE: 05-MAY-1998
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: Maki, David J.
REGISTRATION NUMBER: 31,392
REFERENCE/DOCKET NUMBER: 210121.411C9
TELEPHONE: (206) 622-4900
TELEFAX: (206) 682-6031
INFORMATION FOR SEQ ID NO: 69:
SEQUENCE CHARACTERISTICS:
LENGTH: 344 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
US-09-072-967-69

Query Match 63.8%; Score 37; DB 2; Length 344;
Best Local Similarity 71.4%; Pred. No. 2.3e+02;
Matches 5; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2 SFVCPWC 8
DB 78 SLRCPWC 84

RESULT 32
US-09-712-363-229
Sequence 229, Application US/09712363
Patent No. 6892139
GENERAL INFORMATION:
APPLICANT: Eisenberg, David H.
APPLICANT: Rotstein, Sergio H.
APPLICANT: Marcotte, Edward M.
TITLE OF INVENTION: DETERMINING THE FUNCTIONS AND
INTERACTIONS OF PROTEINS BY COMPARATIVE ANALYSIS
FILE REFERENCE: 07419-032001
CURRENT APPLICATION NUMBER: US/09/712,363
CURRENT FILING DATE: 2000-11-13
PRIOR APPLICATION NUMBER: PCT/US00/02246
PRIOR FILING DATE: 2000-01-28
PRIOR APPLICATION NUMBER: 60/179,531
PRIOR FILING DATE: 2000-02-01
PRIOR APPLICATION NUMBER: 60/117,844
PRIOR FILING DATE: 1999-01-29
PRIOR APPLICATION NUMBER: 60/118,206
PRIOR FILING DATE: 1999-02-01
PRIOR APPLICATION NUMBER: 60/126,593
PRIOR FILING DATE: 1999-03-26
PRIOR APPLICATION NUMBER: 60/134,093
PRIOR FILING DATE: 1999-05-14
PRIOR APPLICATION NUMBER: 60/134,092
PRIOR FILING DATE: 1999-05-14
PRIOR APPLICATION NUMBER: 60/165,124
PRIOR FILING DATE: 1999-11-12
PRIOR APPLICATION NUMBER: 60/165,086
PRIOR FILING DATE: 1999-11-12
NUMBER OF SEQ ID NOS: 292
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 229
LENGTH: 344
TYPE: PRT

ORGANISM: Mycobacterium tuberculosis
US-09-712-363-229

Query Match 63.8%; Score 37; DB 2; Length 344;
Best Local Similarity 71.4%; Pred. No. 2.3e+02;
Matches 5; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2 SFVCPMC 8
DB 78 SLRCPMC 84

RESULT 33
US-10-193-002-70
Sequence 70, Application US/10193002
Patent No. 6949246

GENERAL INFORMATION:

APPLICANT: Reed, Steven G.
Skelky, Yasir A.W.
Dillon, David C.
Campos-Neco, Antonio
Houghton, Raymond
Vedvick, Thomas S.
Twardzik, Daniel R.
Lodes, Michael J.
Hendrickson, Ronald C.

TITLE OF INVENTION: COMPOUNDS AND METHODS FOR DIAGNOSIS OF
TUBERCULOSIS

NUMBER OF SEQUENCES: 350

CORRESPONDENCE ADDRESSES:

ADDRESSEE: SEED and BERRY LLP
STREET: 6300 Columbia Center, 701 Fifth Avenue
CITY: Seattle
STATE: Washington
COUNTRY: USA
ZIP: 98104-7092

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/10/193.002
FILING DATE: 10-Jul-2002
CLASSIFICATION: <Unknown>

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US/09/072.596
FILING DATE: 05-MAY-1998

ATTORNEY/AGENT INFORMATION:

NAME: Maki, David J.
REGISTRATION NUMBER: 31.392
REFERENCE/DOCKET NUMBER: 210121.417C9
TELECOMMUNICATION INFORMATION:
TELEPHONE: (206) 622-4900
TELEFAX: (206) 682-6031

INFORMATION FOR SEQ ID NO: 70:

SEQUENCE CHARACTERISTICS:
LENGTH: 344 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear

SEQUENCE DESCRIPTION: SEQ ID NO: 70:
US-10-193-002-70

Query Match 63.8%; Score 37; DB 2; Length 344;
Best Local Similarity 71.4%; Pred. No. 2.3e+02;
Matches 5; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2 SFVCPMC 8
DB 78 SLRCPMC 84

RESULT 34
US-10-084-843-69

Sequence 69, Application US/10084843
Patent No. 6962710

GENERAL INFORMATION:

APPLICANT: Reed, Steven G.
Skelky, Yasir A.W.
Dillon, David C.
Campos-Neco, Antonio
Houghton, Raymond
Vedvick, Thomas S.
Twardzik, Daniel R.
Lodes, Michael J.
Hendrickson, Ronald C.

TITLE OF INVENTION: COMPOUNDS AND METHODS FOR IMMUNOTHERAPY
AND DIAGNOSIS OF TUBERCULOSIS

NUMBER OF SEQUENCES: 355

CORRESPONDENCE ADDRESSES:

ADDRESSEE: SEED and BERRY LLP
STREET: 6300 Columbia Center, 701 Fifth Avenue
CITY: Seattle
STATE: Washington
COUNTRY: USA
ZIP: 98104-7092

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/10/084.843
FILING DATE: 25-Feb-2002
CLASSIFICATION: <Unknown>

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US/09/072.967
FILING DATE: 05-MAY-1998
ATTORNEY/AGENT INFORMATION:
NAME: Maki, David J.
REGISTRATION NUMBER: 31.392
REFERENCE/DOCKET NUMBER: 210121.411C9
TELECOMMUNICATION INFORMATION:
TELEPHONE: (206) 622-4900
TELEFAX: (206) 682-6031

INFORMATION FOR SEQ ID NO: 69:

SEQUENCE CHARACTERISTICS:
LENGTH: 344 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear

SEQUENCE DESCRIPTION: SEQ ID NO: 69:
US-10-084-843-69

Query Match 63.8%; Score 37; DB 2; Length 344;
Best Local Similarity 71.4%; Pred. No. 2.3e+02;
Matches 5; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2 SFVCPMC 8
DB 78 SLRCPMC 84

RESULT 35
US-08-050-684-2

Sequence 2, Application US/08050684
Patent No. 5550221

GENERAL INFORMATION:

APPLICANT: Johann Dr., Stephen V.
APPLICANT: Van Zelfl Dr., Maria
APPLICANT: O'Hara Dr., Bryan M.
TITLE OF INVENTION: Amphotropic Virus Receptor
NUMBER OF SEQUENCES: 2
CORRESPONDENCE ADDRESSES:
ADDRESSEE: American Cyanamid Company

STREET: 1937 West Main Street
CITY: Stamford
STATE: CT
COUNTRY: United States of America
ZIP: 06904-0060
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/050,684
FILING DATE: 16-APR-1993
CLASSIFICATION: 536
ATTORNEY/AGENT INFORMATION:
NAME: Lowmey Dr., Karen A
REGISTRATION NUMBER: 31,274
REFERENCE/DOCKET NUMBER: 31937-00
TELECOMMUNICATION INFORMATION:
TELEPHONE: 203-321-2361
TELEFAX: 203-321-2871
TELEX: 710-874-4059
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 652 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-050-684-2

Query Match 63.8%; Score 37; DB 1; Length 652;
Best Local Similarity 100.0%; Pred. No. 4.2e+02;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 3 FVCPW 7
Db 233 FVCPW 237

RESULT 36
US-08-582-719-2
Sequence 2, Application US/08582719
Patent No. 5633348
GENERAL INFORMATION:
APPLICANT: Johann Dr., Stephen V.
APPLICANT: Van Zeijl Dr., Marja
APPLICANT: O'Hara Dr., Bryan M.
TITLE OF INVENTION: Amphotropic Virus Receptor
NUMBER OF SEQUENCES: 2
CORRESPONDENCE ADDRESS:
ADDRESSER: American Cyanamid Company
STREET: 1937 West Main Street
CITY: Stamford
STATE: CT
COUNTRY: United States of America
ZIP: 06904-0060
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/582,719
FILING DATE: 04-JAN-1996
CLASSIFICATION: 530
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/050,684
FILING DATE: 16-APR-1993
ATTORNEY/AGENT INFORMATION:
NAME: Lowmey Dr., Karen A
REGISTRATION NUMBER: 31,274
REFERENCE/DOCKET NUMBER: 31937-00
TELECOMMUNICATION INFORMATION:

TELEPHONE: 203-321-2361
TELEFAX: 203-321-2971
TELEX: 710-874-4059
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 652 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-582-719-2

Query Match 63.8%; Score 37; DB 1; Length 652;
Best Local Similarity 100.0%; Pred. No. 4.2e+02;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 3 FVCPW 7
Db 233 FVCPW 237

RESULT 37
US-08-712-241-3
Sequence 3, Application US/08712241
Patent No. 5789564
GENERAL INFORMATION:
APPLICANT: SRIDAH, NABIL G.
APPLICANT: CHR TIEN, MITCHEL
TITLE OF INVENTION: DEVELOPMENT OF RESEARCH,
DIAGNOSTIC AND PRODUCTION TOOLS FOR PRO-HORMONE
CONVERTASES
NUMBER OF SEQUENCES: 28
CORRESPONDENCE ADDRESS:
ADDRESSER: QUARLES & BRADY
STREET: 411 EAST WISCONSIN AVENUE
CITY: MILWAUKEE
STATE: WISCONSIN
COUNTRY: U.S.A.
ZIP: 53202-4497
COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5 inch, 720 kb diskette
COMPUTER: IBM PS/2, Model 30
OPERATING SYSTEM: PC-DOS 3.30
SOFTWARE: Wordperfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/712,241
FILING DATE:
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/529,785
FILING DATE: OCTOBER 20, 1992
APPLICATION NUMBER: US/07/963,535A
FILING DATE: OCTOBER 20, 1992
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: JEAN C. BAKER
REGISTRATION NUMBER: 35,433
REFERENCE/DOCKET NUMBER: 20-702-9001-7
TELECOMMUNICATION INFORMATION:
TELEPHONE: (414) 277-5000
TELEFAX: (414) 277-5591
TELEX:
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 753 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
US-08-712-241-3

Query Match 63.8%; Score 37; DB 1; Length 753;
Best Local Similarity 62.5%; Pred. No. 4.8e+02;
Matches 5; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 2 SFVCPWCA 9
: | | | |
Db 14 AFPCWCA 21

RESULT 38
US-08-026-143B-3
Sequence 3, Application US/08026143B
Patent No. 6348327
GENERAL INFORMATION:
APPLICANT: Gorman, Cornelia M.,
ATTORNEY/AGENT INFORMATION: Debyra J.

TITLE OF INVENTION: Prohormone Convertase Transformed Cells and
Polypeptide Synthesis

NUMBER OF SEQUENCES: 57
CORRESPONDENCE ADDRESS:
ADDRESSEE: Genentech, Inc.
STREET: 1 DNA Way
CITY: South San Francisco
STATE: California
COUNTRY: USA
ZIP: 94080

COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5 inch, 1.44 Mb floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Winpatin (Genentech)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/026,143B
FILING DATE: 01-Mar-1993
CLASSIFICATION: <Unknown>

PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/887265
FILING DATE: 22-MAY-1992
APPLICATION NUMBER: 07/803631
FILING DATE: 06-DEC-1992
APPLICATION NUMBER: PCT/US92/10621
FILING DATE: 04-DEC-1992
ATTORNEY/AGENT INFORMATION:
NAME: Love, Richard B.

REGISTRATION NUMBER: 34,659
REFERENCE/DOCKET NUMBER: P0748P3
TELECOMMUNICATION INFORMATION:
TELEPHONE: 650/225-5530
TELEFAX: 650/952-9881

INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 753 amino acids
TYPE: Amino Acid
TOPOLOGY: Linear
SEQUENCE DESCRIPTION: SEQ ID NO: 3:
US-08-026-143B-3

Query Match 63.8%; Score 37; DB 2; Length 753;
Best Local Similarity 62.5%; Pred. No. 4.8e+02;
Matches 5; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 2 SFVCPWCA 9
: | | | |
Db 14 AFPCWCA 21

RESULT 39
PCT-US92-10621-3
Sequence 3, Application PC/TUS9210621
GENERAL INFORMATION:
APPLICANT: Genentech, Inc.
APPLICANT: Gorman, Cornelia M.,
APPLICANT: Mariotti, Dave,
APPLICANT: Groskreutz, Debyra J.

TITLE OF INVENTION: Prohormone Convertase Transformed Cells and Polypeptide Synthe
NUMBER OF SEQUENCES: 54
CORRESPONDENCE ADDRESS:

ADDRESSEE: Genentech, Inc.
STREET: 460 Point San Bruno Blvd
CITY: South San Francisco
STATE: California
COUNTRY: USA
ZIP: 94080

COMPUTER READABLE FORM:
MEDIUM TYPE: 5.25 inch, 360 Kb floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: patin (Genentech)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US92/10621
FILING DATE: 19921204
CLASSIFICATION:

PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/887265
FILING DATE: 22-MAY-1992
-PRIOR APPLICATION DATA: 07/803631
FILING DATE: 06-DEC-1992
ATTORNEY/AGENT INFORMATION:
NAME: Adler, Carolyn R.

REGISTRATION NUMBER: 32,324
REFERENCE/DOCKET NUMBER: 748P2.PCT
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415/225-2614
TELEFAX: 415/952-9881
TELEX: 910/371-7168

INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 753 amino acids
TYPE: AMINO ACID
TOPOLOGY: Linear
PCT-US92-10621-3

Query Match 63.8%; Score 37; DB 4; Length 753;
Best Local Similarity 62.5%; Pred. No. 4.8e+02;
Matches 5; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 2 SFVCPWCA 9
: | | | |
Db 14 AFPCWCA 21

RESULT 40
PCT-US94-02233-3
Sequence 3, Application PC/TUS9402233
GENERAL INFORMATION:
APPLICANT: Genentech, Inc.

TITLE OF INVENTION: Prohormone Convertase Transformed Cells and Polypeptide Synthe
NUMBER OF SEQUENCES: 54
CORRESPONDENCE ADDRESS:
ADDRESSEE: Genentech, Inc.
STREET: 460 Point San Bruno Blvd
CITY: South San Francisco
STATE: California
COUNTRY: USA
ZIP: 94080

COMPUTER READABLE FORM:
MEDIUM TYPE: 5.25 inch, 360 Kb floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: patin (Genentech)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US94/02233
FILING DATE:

CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Love, Richard B.

REGISTRATION NUMBER: 34,659
REFERENCE/DOCKET NUMBER: 748P3PCT
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415/225-5530
TELEFAX: 415/952-9881
TELEX: 910/371-7168
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 753 amino acids
TYPE: amino acid
TOPOLOGY: linear
PCT-US94-02233-3

Query Match 63.8%; Score 37; DB 4; Length 753;
Best Local Similarity 62.5%; Pred. No. 4,8e+02;
Matches 5; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 2 SPVCPWCA 9
DB 14 AFPCWCA 21

RESULT 41
US-09-270-767-33573
Sequence 33573, Application US/09270767
Patent No. 6703491
GENERAL INFORMATION:
APPLICANT: Homburger et al.
TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
FILE REFERENCE: File Reference: 7326-094
CURRENT APPLICATION NUMBER: US/09/270,767
CURRENT FILING DATE: 1999-03-17
NUMBER OF SEQ ID NOS: 62517
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 33573
LENGTH: 45
TYPE: PRT
ORGANISM: Drosophila melanogaster
US-09-270-767-33573

Query Match 62.1%; Score 36; DB 2; Length 45;
Best Local Similarity 100.0%; Pred. No. 48;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 5 CPWC 8
DB 7 CPWC 10

RESULT 42
US-09-270-767-48790
Sequence 48790, Application US/09270767
Patent No. 6703491
GENERAL INFORMATION:
APPLICANT: Homburger et al.
TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
FILE REFERENCE: File Reference: 7326-094
CURRENT APPLICATION NUMBER: US/09/270,767
CURRENT FILING DATE: 1999-03-17
NUMBER OF SEQ ID NOS: 62517
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 48790
LENGTH: 45
TYPE: PRT
ORGANISM: Drosophila melanogaster
US-09-270-767-48790

Query Match 62.1%; Score 36; DB 2; Length 45;
Best Local Similarity 100.0%; Pred. No. 48;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 5 CPWC 8
DB 7 CPWC 10

DB 7 CPWC 10

RESULT 43
US-09-270-767-35062
Sequence 35062, Application US/09270767
Patent No. 6703491
GENERAL INFORMATION:
APPLICANT: Homburger et al.
TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
FILE REFERENCE: File Reference: 7326-094
CURRENT APPLICATION NUMBER: US/09/270,767
CURRENT FILING DATE: 1999-03-17
NUMBER OF SEQ ID NOS: 62517
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 35062
LENGTH: 49
TYPE: PRT
ORGANISM: Drosophila melanogaster
US-09-270-767-35062

Query Match 62.1%; Score 36; DB 2; Length 49;
Best Local Similarity 100.0%; Pred. No. 52;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 5 CPWC 8
DB 42 CPWC 45

RESULT 44
US-09-270-767-50279
Sequence 50279, Application US/09270767
Patent No. 6703491
GENERAL INFORMATION:
APPLICANT: Homburger et al.
TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
FILE REFERENCE: File Reference: 7326-094
CURRENT APPLICATION NUMBER: US/09/270,767
CURRENT FILING DATE: 1999-03-17
NUMBER OF SEQ ID NOS: 62517
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 50279
LENGTH: 49
TYPE: PRT
ORGANISM: Drosophila melanogaster
US-09-270-767-50279

Query Match 62.1%; Score 36; DB 2; Length 49;
Best Local Similarity 100.0%; Pred. No. 52;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 5 CPWC 8
DB 42 CPWC 45

RESULT 45
US-09-732-210-930
Sequence 930, Application US/09732210
Patent No. 6573361
GENERAL INFORMATION:
APPLICANT: Bunkers, Greg J.
APPLICANT: Liang, Jihong
APPLICANT: Mitcanck, Cindy A.
APPLICANT: Seale, Jeffrey W.
APPLICANT: Wu, Yonnie S.
TITLE OF INVENTION: Anti-Fungal Proteins and Methods for Their Use
FILE REFERENCE: 38-21(15036)B
CURRENT APPLICATION NUMBER: US/09/732,210
CURRENT FILING DATE: 2000-12-07
PRIOR APPLICATION NUMBER: US 60/169,513
PRIOR FILING DATE: 1999-12-07

PRIOR APPLICATION NUMBER: US 60/169,340
PRIOR FILING DATE: 1999-12-07
NUMBER OF SEQ ID NOS: 1753
SEQ ID NO 930
LENGTH: 54
TYPE: PRT
ORGANISM: Thermus aquaticus (subsp. thermophilus)
US-09-732-210-930

Query Match 62.1%; Score 36; DB 2; Length 54;
Best Local Similarity 100.0%; Pred. No. 57;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 5 CPWC 8
Db 40 CPWC 43

RESULT 46
US-08-464-531-86
Sequence 86, Application US/08464531
Patent No. 5789184
GENERAL INFORMATION:
APPLICANT: FOWLES, Dana M.
APPLICANT: BROACH, Jim
APPLICANT: MANFREDI, John
APPLICANT: KLEIN, Christine
APPLICANT: MURPHY, Andrew J.
APPLICANT: PAUL, Jeremy
APPLICANT: TRUEHEART, Joshua
TITLE OF INVENTION: YEAST CELLS ENGINEERED TO PRODUCE
TITLE OF INVENTION: PHEROMONE SYSTEM PROTEIN SURROGATES, AND USES THEREFOR
NUMBER OF SEQUENCES: 119
CORRESPONDENCE ADDRESS:
ADDRESSEE: BROWDY AND NEIMARK
STREET: 419 Seventh Street, N.W., Suite 300
CITY: Washington
STATE: D.C.
COUNTRY: USA
ZIP: 20004
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/464,531
FILING DATE: 05-JUN-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/322,137
FILING DATE: 13-OCT-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/309,313
FILING DATE: 20-SEP-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/190,328
FILING DATE: 31-JAN-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/041,431
FILING DATE: 31-MAR-1993
ATTORNEY/AGENT INFORMATION:
NAME: COOPER, Iver P.
REGISTRATION NUMBER: 28,005
REFERENCE/DOCKET NUMBER: FOWLES-2G
TELECOMMUNICATION INFORMATION:
TELEPHONE: 202-628-5197
TELEFAX: 202-737-3528
TELEX: 248633
INFORMATION FOR SEQ ID NO: 86:
SEQUENCE CHARACTERISTICS:
LENGTH: 67 amino acids
TYPE: amino acid

STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-08-464-531-86

Query Match 62.1%; Score 36; DB 1; Length 67;
Best Local Similarity 100.0%; Pred. No. 70;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 5 CPWC 8
Db 10 CPWC 13

RESULT 47
US-08-461-598-86
Sequence 86, Application US/08461598
Patent No. 5876951
GENERAL INFORMATION:
APPLICANT: FOWLES, Dana M.
APPLICANT: BROACH, Jim
APPLICANT: MANFREDI, John
APPLICANT: KLEIN, Christine
APPLICANT: MURPHY, Andrew J.
APPLICANT: PAUL, Jeremy
APPLICANT: TRUEHEART, Joshua
TITLE OF INVENTION: YEAST CELLS ENGINEERED TO PRODUCE
TITLE OF INVENTION: PHEROMONE SYSTEM PROTEIN SURROGATES, AND USES THEREFOR
NUMBER OF SEQUENCES: 119
CORRESPONDENCE ADDRESS:
ADDRESSEE: BROWDY AND NEIMARK
STREET: 419 Seventh Street, N.W., Suite 300
CITY: Washington
STATE: D.C.
COUNTRY: USA
ZIP: 20004
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/461,598
FILING DATE: 05-JUN-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/322,137
FILING DATE: 13-OCT-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/309,313
FILING DATE: 20-SEP-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/190,328
FILING DATE: 31-JAN-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/041,431
FILING DATE: 31-MAR-1993
ATTORNEY/AGENT INFORMATION:
NAME: COOPER, Iver P.
REGISTRATION NUMBER: 28,005
REFERENCE/DOCKET NUMBER: FOWLES-2F
TELECOMMUNICATION INFORMATION:
TELEPHONE: 202-628-5197
TELEFAX: 202-737-3528
TELEX: 248633
INFORMATION FOR SEQ ID NO: 86:
SEQUENCE CHARACTERISTICS:
LENGTH: 67 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-08-461-598-86

Query Match 62.1%; Score 36; DB 1; Length 67;
Best Local Similarity 100.0%; Pred. No. 70;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 5 CPWC 8
|||||
DB 10 CPWC 13

RESULT 48
US-08-322-137-86
; Sequence 86, Application US/08322137
; Patent No. 6100042
; GENERAL INFORMATION:
; APPLICANT: FOMLAKES, Dana M.
; APPLICANT: BROACH, Jim
; APPLICANT: MANFREDI, John
; APPLICANT: KLEIN, Christine
; APPLICANT: MURPHY, Andrew J.
; APPLICANT: PAUL, Jeremy
; APPLICANT: TRUEHEART, Joshua
; TITLE OF INVENTION: YEAST CELLS ENGINEERED TO PRODUCE
; NUMBER OF SEQUENCES: 119
; CORRESPONDENCE ADDRESSES:
; ADDRESSEE: BROWDY AND NEWMARK
; STREET: 419 Seventh Street, N.W., Suite 300
; CITY: Washington
; STATE: D.C.
; COUNTRY: USA
; ZIP: 20004
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/322,137
; FILING DATE: 13-OCT-1994
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/309,313
; FILING DATE: 20-SEP-1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/190,328
; FILING DATE: 31-JAN-1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/041,431
; FILING DATE: 31-MAR-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: COOPER, Iver P.
; REGISTRATION NUMBER: 28,005
; REFERENCE/DOCKET NUMBER: FOMLAKES=2C
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 202-628-5197
; TELEFAX: 202-737-3528
; TELEX: 248653
; INFORMATION FOR SEQ ID NO: 86:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 67 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; US-08-322-137-86

Query Match 62.1%; Score 36; DB 2; Length 67;
Best Local Similarity 100.0%; Pred. No. 70;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 5 CPWC 8
|||||

DB 10 CPWC 13

RESULT 49
US-09-252-991A-32848
; Sequence 32848, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; PRIOR FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 32848
; LENGTH: 157
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-32848

Query Match 62.1%; Score 36; DB 2; Length 157;
Best Local Similarity 100.0%; Pred. No. 1.6e+02;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 5 CPWC 8
|||||
DB 129 CPWC 132

RESULT 50
US-09-902-540-10496
; Sequence 10496, Application US/09902540
; Patent No. 6833447
; GENERAL INFORMATION:
; APPLICANT: Goldman, Barry S.
; APPLICANT: Hinkle, Gregory J.
; APPLICANT: Slater, Steven C.
; APPLICANT: Wiegand, Roger C.
; TITLE OF INVENTION: Myxococcus xanthus Genome Sequences and Uses Thereof
; FILE REFERENCE: 38-10(15849)B
; CURRENT APPLICATION NUMBER: US/09/902,540
; PRIOR FILING DATE: 2001-07-10
; PRIOR APPLICATION NUMBER: 60/217,883
; PRIOR FILING DATE: 2000-07-10
; NUMBER OF SEQ ID NOS: 16825
; SEQ ID NO 10496
; LENGTH: 169
; TYPE: PRT
; ORGANISM: Myxococcus xanthus
US-09-902-540-10496

Query Match 62.1%; Score 36; DB 2; Length 169;
Best Local Similarity 100.0%; Pred. No. 1.7e+02;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 5 CPWC 8
|||||
DB 141 CPWC 144

Search completed: May 5, 2006, 04:48:33
Job time : 22.7 secs

GenCore version 5.1.7
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OM protein - protein search, using sw model

Run on: May 5, 2006, 08:18:14 ; Search time 56 Seconds
(Without alignments)
67.151 Million cell updates/sec

Title: us-08-170-344-34
Perfect score: 58
Sequence: 1 LSFVCPWCA 9

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1867569 seqs, 417829326 residues

Total number of hits satisfying chosen parameters: 1867569

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 1000 summaries

Database: 1: /cgn2_6/ptodata/1/pubpaa/US07_PUBCOMB.pep:*
2: /cgn2_6/ptodata/1/pubpaa/US08_PUBCOMB.pep:*
3: /cgn2_6/ptodata/1/pubpaa/US09_PUBCOMB.pep:*
4: /cgn2_6/ptodata/1/pubpaa/US10A_PUBCOMB.pep:*
5: /cgn2_6/ptodata/1/pubpaa/US10B_PUBCOMB.pep:*
6: /cgn2_6/ptodata/1/pubpaa/US11_PUBCOMB.pep:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query	Match length	ID	Description
1	58	100.0	17	US-10-432-465-103	Sequence 103, App
2	58	100.0	17	US-10-433-091-72	Sequence 72, App
3	58	100.0	105	US-10-433-091-4	Sequence 4, Appl
4	58	100.0	105	US-10-800-023-28	Sequence 28, Appl
5	58	100.0	118	US-10-472-724-8	Sequence 8, Appl
6	58	100.0	227	US-10-000-903-16	Sequence 16, Appl
7	58	100.0	227	US-10-000-903-19	Sequence 19, Appl
8	58	100.0	227	US-10-899-771-16	Sequence 16, Appl
9	58	100.0	227	US-10-899-771-19	Sequence 19, Appl
10	58	100.0	383	US-10-000-903-23	Sequence 23, Appl
11	58	100.0	383	US-10-899-771-23	Sequence 23, Appl
12	58	93.1	9	US-10-751-845-150	Sequence 150, App
13	58	93.1	9	US-10-924-377-25	Sequence 25, App
14	58	93.1	17	US-10-751-845-156	Sequence 156, App
15	58	93.1	119	US-10-751-845-159	Sequence 159, App
16	58	93.1	236	US-10-751-845-157	Sequence 157, App
17	58	93.1	237	US-10-751-845-158	Sequence 158, App
18	58	93.1	261	US-10-751-845-150	Sequence 160, App
19	58	87.9	13	US-10-447-161-16	Sequence 146, App
20	58	75.9	21	US-09-984-802-444	Sequence 444, App
21	58	75.9	21	US-09-984-802-444	Sequence 444, App
22	58	75.9	21	US-09-973-278-572	Sequence 572, App
23	58	75.9	149	US-09-983-802-443	Sequence 443, App
24	58	75.9	149	US-09-984-490-443	Sequence 443, App
25	58	75.9	149	US-09-973-278-571	Sequence 571, App
26	58	75.9	149	US-10-425-115-209517	Sequence 209517, App
27	58	75.9	149	US-10-437-963-196562	Sequence 196562, App

101	37	63.8	66	4	US-10-425-115-239308	Sequence 239308,	174	37	63.8	566	4	US-10-108-260A-3846	Sequence 3846, Ap
102	37	63.8	68	4	US-10-425-115-210322	Sequence 210322,	175	37	63.8	610	4	US-10-282-122A-47464	Sequence 47464, A
103	37	63.8	69	4	US-10-424-599-202002	Sequence 202002,	176	37	63.8	632	4	US-10-128-71A-33569	Sequence 33569, Ap
104	37	63.8	82	4	US-10-425-115-366536	Sequence 366536,	177	37	63.8	632	4	US-10-128-71A-8569	Sequence 8569, Ap
105	37	63.8	85	4	US-10-424-599-275978	Sequence 275978,	178	37	63.8	652	4	US-10-314-790-3	Sequence 3, Appl
106	37	63.8	88	4	US-10-424-599-229280	Sequence 229280,	179	37	63.8	652	5	US-10-482-029-231	Sequence 251, Appl
107	37	63.8	89	4	US-10-437-963-194050	Sequence 194050,	180	37	63.8	652	5	US-10-756-149-4315	Sequence 4915, Ap
108	37	63.8	93	4	US-10-452-058C-25	Sequence 25, Appl	181	37	63.8	666	6	US-11-097-143-26889	Sequence 26889, A
109	37	63.8	96	4	US-10-425-115-301133	Sequence 301133,	182	37	63.8	666	6	US-11-097-143-26892	Sequence 26892, A
110	37	63.8	101	4	US-10-425-115-188709	Sequence 188709,	183	37	63.8	666	6	US-11-097-143-26895	Sequence 26895, A
111	37	63.8	104	4	US-10-767-701-47410	Sequence 47410, A	184	37	63.8	666	6	US-11-097-143-26898	Sequence 26898, A
112	37	63.8	107	4	US-10-425-114-52370	Sequence 52370, A	185	37	63.8	753	3	US-09-997-866-3	Sequence 3, Appl
113	37	63.8	108	4	US-10-424-599-185978	Sequence 185978,	186	37	63.8	755	5	US-10-450-763-58962	Sequence 58962, A
114	37	63.8	113	4	US-10-425-115-340173	Sequence 340173,	187	37	63.8	1070	5	US-10-947-025-5	Sequence 5, Appl
115	37	63.8	116	4	US-10-425-115-190541	Sequence 190541,	188	37	63.8	1350	4	US-10-437-963-153071	Sequence 153071
116	37	63.8	117	4	US-10-424-599-156247	Sequence 156247,	189	37	63.8	1203	6	US-11-097-143-16713	Sequence 16713, A
117	37	63.8	126	4	US-10-425-115-340175	Sequence 340175,	190	36	62.1	22	5	US-10-942-711-33	Sequence 33, Appl
118	37	63.8	126	4	US-10-425-115-340181	Sequence 340181,	191	36	62.1	47	4	US-10-029-386-27823	Sequence 27823, A
119	37	63.8	128	4	US-10-425-115-340174	Sequence 340174,	192	36	62.1	47	5	US-10-450-763-38363	Sequence 38363, A
120	37	63.8	128	4	US-10-425-115-353868	Sequence 353868,	193	36	62.1	48	5	US-10-846-374B-60	Sequence 60, Appl
121	37	63.8	130	4	US-10-425-115-253868	Sequence 253868,	194	36	62.1	50	4	US-10-424-599-165029	Sequence 165029,
122	37	63.8	133	4	US-10-425-115-290357	Sequence 290357,	195	36	62.1	53	5	US-10-450-763-38364	Sequence 38364, A
123	37	63.8	137	4	US-10-425-115-199128	Sequence 199128,	196	36	62.1	55	4	US-10-424-599-212331	Sequence 212331,
124	37	63.8	152	4	US-10-425-114-60196	Sequence 60196, A	197	36	62.1	55	4	US-10-424-599-212331	Sequence 212331,
125	37	63.8	165	5	US-10-450-763-37682	Sequence 37682, A	198	36	62.1	61	3	US-10-425-115-202306	Sequence 202306,
126	37	63.8	179	4	US-10-425-115-228971	Sequence 228971,	199	36	62.1	67	3	US-09-864-761-43906	Sequence 43906, A
127	37	63.8	183	3	US-09-764-864-1520	Sequence 1520, Ap	200	36	62.1	67	4	US-10-263-341-86	Sequence 86, Appl
128	37	63.8	183	4	US-10-425-114-69458	Sequence 69458, A	201	36	62.1	67	4	US-10-600-003-86	Sequence 86, Appl
129	37	63.8	191	4	US-10-425-114-65387	Sequence 65387, A	202	36	62.1	69	4	US-10-425-115-377315	Sequence 377315
130	37	63.8	199	4	US-10-437-963-129210	Sequence 129210,	203	36	62.1	72	4	US-10-424-599-246108	Sequence 246108,
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133	37	63.8	207	4	US-10-080-170-174	Sequence 174, App	206	36	62.1	74	4	US-10-425-115-203273	Sequence 203273,
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851	36	62.1	374	3	US-09-984-292-39	Sequence 39, App	924	36	62.1	955	6	US-09-918-715-179	Sequence 179, App
852	36	62.1	374	3	US-09-989-497-38	Sequence 38, App	925	36	62.1	1002	3	US-10-474-794-179	Sequence 179, App
853	36	62.1	374	3	US-09-989-497-39	Sequence 39, App	926	36	62.1	1002	5	US-10-979-159-179	Sequence 179, App
854	36	62.1	374	3	US-09-952-680A-32	Sequence 32, App	927	36	62.1	1081	4	US-10-017-161-1666	Sequence 1666, App
855	36	62.1	374	3	US-09-899-495-10	Sequence 10, App	928	36	62.1	1081	4	US-10-292-798-1336	Sequence 1336, App
856	36	62.1	374	3	US-10-318-031-2	Sequence 2, App	929	36	62.1	1165	4	US-10-408-765A-1392	Sequence 1392, App
857	36	62.1	374	5	US-10-215-982-32	Sequence 32, App	930	36	62.1	1284	5	US-10-437-963-107044	Sequence 107044, A
858	36	62.1	374	5	US-10-481-161-10	Sequence 10, App	931	36	62.1	1284	5	US-10-483-505-32	Sequence 32, App
859	36	62.1	374	5	US-10-633-531-2	Sequence 2, App	932	36	62.1	1291	5	US-10-450-763-40122	Sequence 40122, A
860	36	62.1	374	5	US-10-830-716-5	Sequence 5, App	933	36	62.1	1908	4	US-10-338-275-5	Sequence 8, App
861	36	62.1	374	5	US-10-830-716-5	Sequence 5, App	934	36	62.1	1908	4	US-10-084-846A-8	Sequence 1474, App
862	36	62.1	374	5	US-10-663-650A-1	Sequence 1, App	935	35.5	61.2	185	4	US-10-296-115-1474	Sequence 16062, A
863	36	62.1	374	5	US-10-663-650A-2	Sequence 2, App	936	35.5	61.2	191	4	US-10-437-963-166062	Sequence 3074, App
864	36	62.1	374	5	US-10-663-650A-4	Sequence 4, App	937	35.5	61.2	410	4	US-10-108-260A-3074	Sequence 74, App
865	36	62.1	374	5	US-10-732-923-7611	Sequence 7611, App	938	35	60.3	9	3	US-09-891-823-74	Sequence 74, App
866	36	62.1	374	5	US-10-732-923-7649	Sequence 7649, App	939	35	60.3	9	4	US-10-365-908-74	Sequence 74, App
867	36	62.1	374	5	US-10-732-923-8004	Sequence 8004, App	940	35	60.3	19	4	US-10-871-138-74	Sequence 74, App
868	36	62.1	374	5	US-10-732-923-8005	Sequence 8005, App	941	35	60.3	32	4	US-10-424-599-277961	Sequence 277961, App
869	36	62.1	374	5	US-10-732-923-8061	Sequence 8061, App	942	35	60.3	38	4	US-10-074-475-266	Sequence 266, App
870	36	62.1	374	5	US-10-952-773-38	Sequence 38, App	943	35	60.3	40	3	US-09-986-480-391	Sequence 391, App
871	36	62.1	374	5	US-10-952-773-39	Sequence 39, App	944	35	60.3	40	4	US-10-425-115-285954	Sequence 285954, A
872	36	62.1	375	3	US-10-357-567-33	Sequence 33, App	945	35	60.3	40	5	US-10-663-332-391	Sequence 331, App
873	36	62.1	375	3	US-09-764-864-931	Sequence 931, App	946	35	60.3	43	4	US-10-424-599-251176	Sequence 251176, A
874	36	62.1	393	5	US-10-739-930-7212	Sequence 7212, App	947	35	60.3	43	4	US-10-437-963-196076	Sequence 196076, A
875	36	62.1	403	4	US-10-156-761-13558	Sequence 13558, A	948	35	60.3	55	4	US-10-425-115-327909	Sequence 327909, A
876	36	62.1	409	3	US-09-801-574-72	Sequence 72, App	949	35	60.3	57	3	US-09-764-869-898	Sequence 898, App
877	36	62.1	414	4	US-10-425-114-55104	Sequence 55104, A	950	35	60.3	57	4	US-10-091-504-898	Sequence 898, App
878	36	62.1	431	3	US-09-912-935-36	Sequence 36, App	951	35	60.3	57	4	US-10-227-577-898	Sequence 898, App
879	36	62.1	431	4	US-10-168-365-36	Sequence 36, App	952	35	60.3	58	4	US-10-437-963-172119	Sequence 172119, A
880	36	62.1	432	4	US-10-369-493-12533	Sequence 12533, A	953	35	60.3	60	3	US-09-864-761-34827	Sequence 34827, A
881	36	62.1	449	4	US-10-238-075-109	Sequence 109, App	954	35	60.3	63	3	US-09-864-761-18820	Sequence 18820, A
882	36	62.1	488	5	US-10-357-819-4	Sequence 4, App	955	35	60.3	63	3	US-09-864-761-39828	Sequence 39828, A
883	36	62.1	492	4	US-10-437-963-180033	Sequence 180033, A	956	35	60.3	65	3	US-10-425-115-347553	Sequence 347553, A
884	36	62.1	492	5	US-10-505-818-19	Sequence 19, App	957	35	60.3	66	4	US-10-424-599-199440	Sequence 199440, A
885	36	62.1	493	5	US-10-424-599-153304	Sequence 153304, A	958	35	60.3	68	4	US-10-424-599-258148	Sequence 258148, A
886	36	62.1	500	3	US-09-918-715-192	Sequence 192, App	959	35	60.3	77	4	US-10-424-599-186176	Sequence 186176, A
887	36	62.1	500	3	US-09-918-715-230	Sequence 230, App	960	35	60.3	78	4	US-10-425-115-250416	Sequence 250416, A
888	36	62.1	500	3	US-09-918-715-297	Sequence 297, App	961	35	60.3	78	4	US-10-424-599-162018	Sequence 162018, A
889	36	62.1	500	4	US-10-156-467A-6	Sequence 6, App	962	35	60.3	92	4	US-10-425-115-263959	Sequence 263959, A
890	36	62.1	500	4	US-10-435-686-79	Sequence 79, App	963	35	60.3	98	5	US-10-357-057-12	Sequence 12, App
891	36	62.1	500	4	US-10-474-794-192	Sequence 192, App	964	35	60.3	102	4	US-10-425-115-392304	Sequence 392304, A
892	36	62.1	500	4	US-10-474-794-230	Sequence 230, App	965	35	60.3	111	4	US-10-424-599-120528	Sequence 120528, A
893	36	62.1	500	4	US-10-474-794-297	Sequence 297, App	966	35	60.3	119	4	US-10-767-701-8549	Sequence 8549, A
894	36	62.1	500	5	US-10-357-819-2	Sequence 2, App	967	35	60.3	122	4	US-10-425-115-424704	Sequence 424704, A
895	36	62.1	500	5	US-10-979-159-132	Sequence 132, App	968	35	60.3	124	4	US-10-408-765A-1991	Sequence 1991, App
896	36	62.1	500	5	US-10-979-159-230	Sequence 230, App	969	35	60.3	125	4	US-10-425-115-206480	Sequence 206480, A
897	36	62.1	500	5	US-10-979-159-297	Sequence 297, App	970	35	60.3	137	4	US-10-425-115-190554	Sequence 190554, A
898	36	62.1	502	4	US-10-156-487A-5	Sequence 5, App	971	35	60.3	146	5	US-10-450-763-38055	Sequence 38055, A
899	36	62.1	512	3	US-09-962-290-2	Sequence 2, App	972	35	60.3	152	4	US-10-437-963-156861	Sequence 156861, A
900	36	62.1	512	3	US-09-962-290-6	Sequence 6, App	973	35	60.3	159	4	US-10-767-701-59210	Sequence 59210, A
901	36	62.1	515	3	US-09-759-010-8	Sequence 8, App	974	35	60.3	169	4	US-10-424-599-32545	Sequence 32545, A
902	36	62.1	525	3	US-10-369-493-11219	Sequence 11219, A	975	35	60.3	185	4	US-10-320-797-3017	Sequence 3017, App
903	36	62.1	553	4	US-10-308-936-14	Sequence 14, App	976	35	60.3				

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977 35 60.3 187 4 US-10-425-115-243513 Sequence 243513,
978 35 60.3 192 5 US-10-732-923-8502 Sequence 8502, Ap
979 35 60.3 194 4 US-10-767-701-57892 Sequence 57892, A
980 35 60.3 204 4 US-10-243-552-648 Sequence 648, App
981 35 60.3 216 4 US-10-424-599-194373 Sequence 194373,
982 35 60.3 225 4 US-10-437-963-149057 Sequence 149057,
983 35 60.3 222 4 US-10-425-115-357907 Sequence 357907,
984 35 60.3 271 5 US-10-450-763-48190 Sequence 48190, A
985 35 60.3 282 5 US-10-450-763-49665 Sequence 49665, A
986 35 60.3 284 3 US-09-986-480-387 Sequence 387, App
987 35 60.3 284 3 US-10-863-332-387 Sequence 387, App
988 35 60.3 315 6 US-11-097-143-38622 Sequence 38622, A
989 35 60.3 316 4 US-10-282-122A-43736 Sequence 43736, A
990 35 60.3 337 4 US-10-767-701-35108 Sequence 35108, A
991 35 60.3 348 4 US-10-017-161-2358 Sequence 2358, Ap
992 35 60.3 348 4 US-10-292-798-2002 Sequence 2002, Ap
993 35 60.3 359 5 US-10-450-763-57487 Sequence 57487, A
994 35 60.3 360 4 US-10-425-115-325058 Sequence 325058,
995 35 60.3 381 5 US-10-739-930-5642 Sequence 5642, Ap
996 35 60.3 386 4 US-10-425-115-33978 Sequence 33978,
997 35 60.3 392 4 US-10-425-114-66852 Sequence 66852, A
998 35 60.3 426 5 US-10-739-930-10887 Sequence 10887, A
999 35 60.3 441 4 US-10-424-599-161614 Sequence 161614,
1000 35 60.3 441 4 US-10-424-599-161615 Sequence 161615,
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ALIGNMENTS

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RESULT 1
US-10-432-465-103
; Sequence 103, Application US/10432465
; Publication No. US20040091479A1
; GENERAL INFORMATION:
; APPLICANT: Nieland, John
; APPLICANT: Kaufmann, Andreas
; APPLICANT: Kather, Angela
; APPLICANT: Schinz, Manuela
; TITLE OF INVENTION: T-Cell Epitopes of the Papillomavirus L1
; TITLE OF INVENTION: Protein and E7 Protein and their Use in Diagnosis and
; TITLE OF INVENTION: Therapy
; FILE REFERENCE: 50125/077001
; CURRENT APPLICATION NUMBER: US/10/432,465
; CURRENT FILING DATE: 2003-12-10
; PRIOR APPLICATION NUMBER: PCT/EP01/14037
; PRIOR FILING DATE: 2001-11-30
; PRIOR APPLICATION NUMBER: DE 10059631.2
; PRIOR FILING DATE: 2000-12-01
; NUMBER OF SEQ ID NOS: 116
; SOFTWARE: FaastSeq for Windows Version 4.0
; SEQ ID NO 103
; LENGTH: 17
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-432-465-103

Query Match 100.0%; Score 58; DB 4; Length 17;
Best Local Similarity 100.0%; Pred. No. 0.052;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 LSFVCPWCA 9
| | | | | | | |
Db 6 LSFVCPWCA 14

RESULT 2
US-10-433-091-72
; Sequence 72, Application US/10433091
; Publication No. US20040101533A1
; GENERAL INFORMATION:
; APPLICANT: MULLER, RAINER
; APPLICANT: NIELAND, JOHN
; APPLICANT: GABELSBERGER, JOSEF
```

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; APPLICANT: HERBST, RUTH
; TITLE OF INVENTION: MECHANISM FOR PREVENTING OR TREATING TUMORS CAUSED BY
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS TYPE 18
; FILE REFERENCE: 037067/0115
; CURRENT APPLICATION NUMBER: US/10/433,091
; CURRENT FILING DATE: 2003-11-25
; PRIOR APPLICATION NUMBER: PCT/EP01/14038
; PRIOR FILING DATE: 2001-11-30
; PRIOR APPLICATION NUMBER: DE 100 59 630.4
; PRIOR FILING DATE: 2000-12-01
; NUMBER OF SEQ ID NOS: 72
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 72
; LENGTH: 17
; TYPE: PRT
; ORGANISM: Human papillomavirus type 18
US-10-433-091-72
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Query Match 100.0%; Score 58; DB 4; Length 17;
Best Local Similarity 100.0%; Pred. No. 0.052;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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QY 1 LSFVCPWCA 9
| | | | | | | |
Db 6 LSFVCPWCA 14
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RESULT 3
US-10-433-091-4
; Sequence 4, Application US/10433091
; Publication No. US20040101533A1
; GENERAL INFORMATION:
; APPLICANT: MULLER, RAINER
; APPLICANT: NIELAND, JOHN
; APPLICANT: GABELSBERGER, JOSEF
; APPLICANT: HERBST, RUTH
; TITLE OF INVENTION: MECHANISM FOR PREVENTING OR TREATING TUMORS CAUSED BY
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS TYPE 18
; FILE REFERENCE: 037067/0115
; CURRENT APPLICATION NUMBER: US/10/433,091
; CURRENT FILING DATE: 2003-11-25
; PRIOR APPLICATION NUMBER: PCT/EP01/14038
; PRIOR FILING DATE: 2001-11-30
; PRIOR APPLICATION NUMBER: DE 100 59 630.4
; PRIOR FILING DATE: 2000-12-01
; NUMBER OF SEQ ID NOS: 72
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 4
; LENGTH: 105
; TYPE: PRT
; ORGANISM: Human papillomavirus type 18
US-10-433-091-4

Query Match 100.0%; Score 58; DB 4; Length 105;
Best Local Similarity 100.0%; Pred. No. 0.23;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 LSFVCPWCA 9
| | | | | | | |
Db 94 LSFVCPWCA 102

RESULT 4
US-10-800-023-28
; Sequence 28, Application US/10800023
; Publication No. US20040258688A1
; GENERAL INFORMATION:
; APPLICANT: Steinman, Ralph
; APPLICANT: Nusgenzweig, Michel
; APPLICANT: Hawiger, Daniel
; APPLICANT: Bonifaz, Laura
; TITLE OF INVENTION: Enhanced Antigen Delivery and Modulation
; TITLE OF INVENTION: of the Immune Response Therefrom
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; FILE REFERENCE: 600-1-081CONCIP1
; CURRENT APPLICATION NUMBER: US/10/800,023
; CURRENT FILING DATE: 2004-03-14
; PRIOR APPLICATION NUMBER: 09/925,284
; PRIOR FILING DATE: 2001-08-09
; PRIOR APPLICATION NUMBER: 09/586,704
; PRIOR FILING DATE: 2000-06-05
; PRIOR APPLICATION NUMBER: PCT/US96/01383
; PRIOR FILING DATE: 1996-01-31
; PRIOR APPLICATION NUMBER: 08/381,528
; PRIOR FILING DATE: 1995-01-31
; NUMBER OF SEQ ID NOS: 37
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 28
; LENGTH: 105
; TYPE: PRT
; ORGANISM: human papilloma virus E7 protein
; US-10-800-023-28

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Query Match          100.0%; Score 58; DB 5; Length 105;
Best Local Similarity 100.0%; Pred. No. 0.23;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 1 LSFVCPWCA 9
Db 94 LSFVCPWCA 102

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RESULT 5
US-10-472-724-8
; Sequence 8, Application US/10/472724
; Publication No. US20040171806A1
; GENERAL INFORMATION:
; APPLICANT: Cid-Arregui, Angel
; APPLICANT: Zur Hausen, Harald
; TITLE OF INVENTION: Modified HPV E6 and E7 genes and proteins useful for vaccination
; FILE REFERENCE: 4121-154
; CURRENT APPLICATION NUMBER: US/10/472,724
; CURRENT FILING DATE: 2003-09-17
; PRIOR APPLICATION NUMBER: PCT/EP02/03271
; PRIOR FILING DATE: 2002-03-22
; PRIOR APPLICATION NUMBER: EP 01107271.7
; PRIOR FILING DATE: 2001-03-23
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 8
; LENGTH: 118
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Construct
; US-10-472-724-8

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Query Match          100.0%; Score 58; DB 4; Length 118;
Best Local Similarity 100.0%; Pred. No. 0.26;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 1 LSFVCPWCA 9
Db 99 LSFVCPWCA 107

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RESULT 6
US-10-000-903-16
; Sequence 16, Application US/10000903
; Publication No. US20020182221A1
; GENERAL INFORMATION:
; APPLICANT: Bruck, Claudine
; APPLICANT: Cabezon Silva, Teresa
; APPLICANT: Delisse, Anne-Marie Eva Fernande
; APPLICANT: Gerard, Catherine Marie Ghislaine
; APPLICANT: Lombardo-Benchetlth, Angela
; TITLE OF INVENTION: Vaccine

```

```

; FILE REFERENCE: B45107
; CURRENT APPLICATION NUMBER: US/10/000,903
; CURRENT FILING DATE: 2001-10-01
; PRIOR APPLICATION NUMBER: PCT/EP98/05285
; PRIOR FILING DATE: 1998-08-17
; PRIOR APPLICATION NUMBER: GB 9717953.5
; PRIOR FILING DATE: 1997-08-22
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 16
; LENGTH: 227
; TYPE: PRT
; ORGANISM: Homo sapien
; US-10-000-903-16

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Query Match          100.0%; Score 58; DB 4; Length 227;
Best Local Similarity 100.0%; Pred. No. 0.44;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 1 LSFVCPWCA 9
Db 207 LSFVCPWCA 215

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RESULT 7
US-10-000-903-19
; Sequence 19, Application US/10000903
; Publication No. US20020182221A1
; GENERAL INFORMATION:
; APPLICANT: Bruck, Claudine
; APPLICANT: Cabezon Silva, Teresa
; APPLICANT: Delisse, Anne-Marie Eva Fernande
; APPLICANT: Gerard, Catherine Marie Ghislaine
; APPLICANT: Lombardo-Benchetlth, Angela
; TITLE OF INVENTION: Vaccine
; FILE REFERENCE: B45107
; CURRENT APPLICATION NUMBER: US/10/000,903
; CURRENT FILING DATE: 2001-10-01
; PRIOR APPLICATION NUMBER: PCT/EP98/05285
; PRIOR FILING DATE: 1998-08-17
; PRIOR APPLICATION NUMBER: GB 9717953.5
; PRIOR FILING DATE: 1997-08-22
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 19
; LENGTH: 227
; TYPE: PRT
; ORGANISM: Homo sapien
; US-10-000-903-19

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```

Query Match          100.0%; Score 58; DB 4; Length 227;
Best Local Similarity 100.0%; Pred. No. 0.44;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

QY 1 LSFVCPWCA 9
Db 207 LSFVCPWCA 215

```

```

RESULT 8
US-10-899-771-16
; Sequence 16, Application US/10899771
; Publication No. US20050031638A1
; GENERAL INFORMATION:
; APPLICANT: Dalemans, Wilfried L.J.
; APPLICANT: Gerard, Catherine Marie Ghislaine
; TITLE OF INVENTION: Compositions Comprising Human Papilloma Virus Proteins
; FILE REFERENCE: B45124
; CURRENT APPLICATION NUMBER: US/10/899,771
; CURRENT FILING DATE: 2004-07-27
; PRIOR APPLICATION NUMBER: US/09/581,976
; PRIOR FILING DATE: 2000-06-20

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;; PRIOR APPLICATION NUMBER: PCT/EP98/08563
;; PRIOR FILING DATE: 1998-12-18
;; PRIOR APPLICATION NUMBER: GB 9727262.9
;; PRIOR FILING DATE: 1997-12-24
;; NUMBER OF SEQ ID NOS: 28
;; SOFTWARE: FastSeq for Windows Version 3.0
;; SEQ ID NO 16
;; LENGTH: 227
;; TYPE: PRT
;; ORGANISM: Artificial Sequence
;; FEATURE:
;; OTHER INFORMATION: Chimaeic protein (protein D from Haemophilus
;; OTHER INFORMATION: Influenzae B and E7 from Human papilloma virus type
;; OTHER INFORMATION: 18)
US-10-899-771-16

Query Match 100.0%; Score 58; DB 5; Length 227;
Best Local Similarity 100.0%; Pred. No. 0.44;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 LSFVCPMCA 9
Db 207 LSFVCPMCA 215

RESULT 9

US-10-899-771-19
;; Sequence 19, Application US/10899771
;; Publication No. US20050031638A1
;; GENERAL INFORMATION:
;; APPLICANT: Dalemans, Wilfried L.J.
;; TITLE OF INVENTION: Compositions Comprising Human Papilloma Virus Proteins
;; TITLE OF INVENTION: and Fusion Proteins Adjuvanted with a Cpg Oligonucleotide
;; FILE REFERENCE: B45124
;; CURRENT APPLICATION NUMBER: US/10/899,771
;; CURRENT FILING DATE: 2004-07-27
;; PRIOR APPLICATION NUMBER: US/09/581,976
;; PRIOR FILING DATE: 2000-06-20
;; PRIOR APPLICATION NUMBER: PCT/EP98/08563
;; PRIOR FILING DATE: 1998-12-18
;; PRIOR APPLICATION NUMBER: GB 9727262.9
;; PRIOR FILING DATE: 1997-12-24
;; NUMBER OF SEQ ID NOS: 28
;; SOFTWARE: FastSeq for Windows Version 3.0
;; SEQ ID NO 19
;; LENGTH: 227
;; TYPE: PRT
;; ORGANISM: Artificial Sequence
;; FEATURE:
;; OTHER INFORMATION: Chimaeic protein (protein D from Haemophilus
;; OTHER INFORMATION: Influenzae B and mutated E7 from Human papilloma
;; OTHER INFORMATION: virus type 18)
US-10-899-771-19

Query Match 100.0%; Score 58; DB 5; Length 227;
Best Local Similarity 100.0%; Pred. No. 0.44;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 LSFVCPMCA 9
Db 207 LSFVCPMCA 215

RESULT 10

US-10-000-903-23
;; Sequence 23, Application US/10000903
;; Publication No. US20020182221A1
;; GENERAL INFORMATION:
;; APPLICANT: Bruck, Claudine
;; APPLICANT: Cabezon Silva, Teresa
;; APPLICANT: Delisse, Anne-Marie Eva Fernandez
;; APPLICANT: Gerard, Catherine Marie Ghislaine

;; APPLICANT: Lombardo-Bencheikh, Angela
;; TITLE OF INVENTION: Vaccine
;; FILE REFERENCE: B45107
;; CURRENT APPLICATION NUMBER: US/10/000,903
;; CURRENT FILING DATE: 2001-10-01
;; PRIOR APPLICATION NUMBER: PCT/EP98/05285
;; PRIOR FILING DATE: 1998-08-17
;; PRIOR APPLICATION NUMBER: GB 9717953.5
;; PRIOR FILING DATE: 1997-08-22
;; NUMBER OF SEQ ID NOS: 23
;; SOFTWARE: FastSeq for Windows Version 3.0
;; SEQ ID NO 23
;; LENGTH: 383
;; TYPE: PRT
;; ORGANISM: Homo sapien
US-10-000-903-23

Query Match 100.0%; Score 58; DB 4; Length 383;
Best Local Similarity 100.0%; Pred. No. 0.67;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 LSFVCPMCA 9
Db 363 LSFVCPMCA 371

RESULT 11

US-10-899-771-23
;; Sequence 23, Application US/10899771
;; Publication No. US20050031638A1
;; GENERAL INFORMATION:
;; APPLICANT: Dalemans, Wilfried L.J.
;; TITLE OF INVENTION: Compositions Comprising Human Papilloma Virus Proteins
;; TITLE OF INVENTION: and Fusion Proteins Adjuvanted with a Cpg Oligonucleotide
;; FILE REFERENCE: B45124
;; CURRENT APPLICATION NUMBER: US/10/899,771
;; CURRENT FILING DATE: 2004-07-27
;; PRIOR APPLICATION NUMBER: US/09/581,976
;; PRIOR FILING DATE: 2000-06-20
;; PRIOR APPLICATION NUMBER: PCT/EP98/08563
;; PRIOR FILING DATE: 1998-12-18
;; PRIOR APPLICATION NUMBER: GB 9727262.9
;; PRIOR FILING DATE: 1997-12-24
;; NUMBER OF SEQ ID NOS: 28
;; SOFTWARE: FastSeq for Windows Version 3.0
;; SEQ ID NO 23
;; LENGTH: 383
;; TYPE: PRT
;; ORGANISM: Artificial Sequence
;; FEATURE:
;; OTHER INFORMATION: Chimaeic protein (protein D from Haemophilus
;; OTHER INFORMATION: Influenzae B and E6E7 fusion from Human papilloma
;; OTHER INFORMATION: virus type 18)
US-10-899-771-23

Query Match 100.0%; Score 58; DB 5; Length 383;
Best Local Similarity 100.0%; Pred. No. 0.67;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 LSFVCPMCA 9
Db 363 LSFVCPMCA 371

RESULT 12

US-10-751-845-150
;; Sequence 150, Application US/10751845
;; Publication No. US20050100928A1
;; GENERAL INFORMATION:
;; APPLICANT: Hedley, Mary Lynne
;; APPLICANT: Urban, Robert G.
;; APPLICANT: Chicz, Roman M.

```

; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES
; FILE REFERENCE: 08191-013001
; CURRENT APPLICATION NUMBER: US/10/751,845
; PRIOR FILING DATE: 2004-01-05
; PRIOR APPLICATION NUMBER: US/09/664,225
; PRIOR FILING DATE: 2000-08-18
; PRIOR APPLICATION NUMBER: US 60/169,846
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: US 60/154,665
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 163
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 150
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Human Papilloma virus
US-10-751-845-150

```

```

Query Match      93.1%; Score 54; DB 5; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.7e+06;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

QY      1 LSFVCPWC 8
        |||||
Db      2 LSFVCPWC 9

```

```

RESULT 13
US-10-924-377-25
; Sequence 25, Application US/10924377
; Publication No. US20050181458A1
; GENERAL INFORMATION:
; APPLICANT: Harding, Fiona
; TITLE OF INVENTION: HPV CD8+ T-Cell Epitopes
; FILE REFERENCE: GC811-205
; CURRENT APPLICATION NUMBER: US/10/924,377
; PRIOR FILING DATE: 2004-08-23
; PRIOR APPLICATION NUMBER: US 60/500,452
; PRIOR FILING DATE: 2003-09-05
; NUMBER OF SEQ ID NOS: 25
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 25
; LENGTH: 9
; TYPE: PRT
; ORGANISM: human papillomavirus
US-10-924-377-25

```

```

Query Match      93.1%; Score 54; DB 5; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.7e+06;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

QY      2 SFVCPWCA 9
        |||||
Db      1 SFVCPWCA 8

```

```

RESULT 14
US-10-751-845-156
; Sequence 156, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
; APPLICANT: Hedley, Mary Lynne
; APPLICANT: Urban, Robert G.
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES
; FILE REFERENCE: 08191-013001
; CURRENT APPLICATION NUMBER: US/10/751,845
; PRIOR FILING DATE: 2004-01-05
; PRIOR APPLICATION NUMBER: US/09/664,225
; PRIOR FILING DATE: 2000-08-18
; PRIOR APPLICATION NUMBER: US 60/169,846
; PRIOR FILING DATE: 1999-12-09

```

```

; PRIOR APPLICATION NUMBER: US 60/154,665
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 163
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 156
; LENGTH: 17
; TYPE: PRT
; ORGANISM: Human Papilloma virus
US-10-751-845-156

```

```

Query Match      93.1%; Score 54; DB 5; Length 17;
Best Local Similarity 100.0%; Pred. No. 0.21;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

QY      1 LSFVCPWC 8
        |||||
Db      10 LSFVCPWC 17

```

```

RESULT 15
US-10-751-845-159
; Sequence 159, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
; APPLICANT: Hedley, Mary Lynne
; APPLICANT: Urban, Robert G.
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES
; FILE REFERENCE: 08191-013001
; CURRENT APPLICATION NUMBER: US/10/751,845
; PRIOR FILING DATE: 2004-01-05
; PRIOR APPLICATION NUMBER: US/09/664,225
; PRIOR FILING DATE: 2000-08-18
; PRIOR APPLICATION NUMBER: US 60/169,846
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: US 60/154,665
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 163
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 159
; LENGTH: 119
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Artificial fusion sequence
US-10-751-845-159

```

```

Query Match      93.1%; Score 54; DB 5; Length 119;
Best Local Similarity 100.0%; Pred. No. 1;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

QY      1 LSFVCPWC 8
        |||||
Db      112 LSFVCPWC 119

```

```

RESULT 16
US-10-751-845-157
; Sequence 157, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
; APPLICANT: Hedley, Mary Lynne
; APPLICANT: Urban, Robert G.
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES
; FILE REFERENCE: 08191-013001
; CURRENT APPLICATION NUMBER: US/10/751,845
; PRIOR FILING DATE: 2004-01-05
; PRIOR APPLICATION NUMBER: US/09/664,225
; PRIOR FILING DATE: 2000-08-18
; PRIOR APPLICATION NUMBER: US 60/169,846
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: US 60/154,665

```

PRIOR FILING DATE: 1999-09-16
NUMBER OF SEQ ID NOS: 163
SOFTWARE: FaestSeq for Windows Version 4.0
SEQ ID NO 157
LENGTH: 236
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Artificial fusion sequence
US-10-751-845-157

Query Match 93.1%; Score 54; DB 5; Length 236;
Best Local Similarity 100.0%; Pred. No. 1.8;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 LSFVCPWC 8
DB 229 LSFVCPWC 236

RESULT 17
US-10-751-845-158
Sequence 158, Application US/10751845
Publication No. US20050100928A1
GENERAL INFORMATION:
APPLICANT: Hedley, Mary Lynne
APPLICANT: Urban, Robert G.
TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES
FILE REFERENCE: 08191-013001
CURRENT APPLICATION NUMBER: US/10/751,845
CURRENT FILING DATE: 2004-01-05
PRIOR APPLICATION NUMBER: US/09/664,225
PRIOR FILING DATE: 2000-08-18
PRIOR APPLICATION NUMBER: US 60/169,846
PRIOR FILING DATE: 1999-12-09
PRIOR APPLICATION NUMBER: US 60/154,665
PRIOR FILING DATE: 1999-09-16
NUMBER OF SEQ ID NOS: 163
SOFTWARE: FaestSeq for Windows Version 4.0
SEQ ID NO 158
LENGTH: 237
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Artificial fusion sequence
US-10-751-845-158

Query Match 93.1%; Score 54; DB 5; Length 237;
Best Local Similarity 100.0%; Pred. No. 1.8;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 LSFVCPWC 8
DB 230 LSFVCPWC 237

RESULT 18
US-10-751-845-160
Sequence 160, Application US/10751845
Publication No. US20050100928A1
GENERAL INFORMATION:
APPLICANT: Hedley, Mary Lynne
APPLICANT: Urban, Robert G.
TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES
FILE REFERENCE: 08191-013001
CURRENT APPLICATION NUMBER: US/10/751,845
CURRENT FILING DATE: 2004-01-05
PRIOR APPLICATION NUMBER: US/09/664,225
PRIOR FILING DATE: 2000-08-18
PRIOR APPLICATION NUMBER: US 60/169,846
PRIOR FILING DATE: 1999-12-09

PRIOR APPLICATION NUMBER: US 60/154,665
PRIOR FILING DATE: 1999-09-16
NUMBER OF SEQ ID NOS: 163
SOFTWARE: FaestSeq for Windows Version 4.0
SEQ ID NO 160
LENGTH: 261
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Artificial fusion sequence
US-10-751-845-160

Query Match 93.1%; Score 54; DB 5; Length 261;
Best Local Similarity 100.0%; Pred. No. 2;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 LSFVCPWC 8
DB 254 LSFVCPWC 261

RESULT 19
US-10-447-161-146
Sequence 146, Application US/10447161
Publication No. US20040023314A1
GENERAL INFORMATION:
APPLICANT: Wang, Rong-fu
TITLE OF INVENTION: Mutant Fibronectin and Tumor Metastasis
FILE REFERENCE: HO-P02484US1
CURRENT APPLICATION NUMBER: US/10/447,161
CURRENT FILING DATE: 2003-05-28
PRIOR APPLICATION NUMBER: 60/383,530
PRIOR FILING DATE: 2002-05-28
NUMBER OF SEQ ID NOS: 148
SOFTWARE: PatentIn version 3.1
SEQ ID NO 146
LENGTH: 13
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic Peptide
US-10-447-161-146

Query Match 87.9%; Score 51; DB 4; Length 13;
Best Local Similarity 87.5%; Pred. No. 0.48;
Matches 7; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 LSFVCPWC 8
DB 6 LNFVCPWC 13

RESULT 20
US-09-983-802-444
Sequence 444, Application US/09983802
Publication No. US20030022185A1
GENERAL INFORMATION:
APPLICANT: Fischer et al.
TITLE OF INVENTION: 123 Human Secreted Proteins
FILE REFERENCE: P2010P1
CURRENT APPLICATION NUMBER: US/09/983,802
CURRENT FILING DATE: 2001-10-25
PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 09/227,357
PRIOR FILING DATE: EARLIER FILING DATE: 1999-01-08
PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: PCT/US98/13684
PRIOR FILING DATE: EARLIER FILING DATE: 1998-07-07
PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 60/051,926
PRIOR FILING DATE: EARLIER FILING DATE: 1997-07-08
PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 60/052,793
PRIOR FILING DATE: EARLIER FILING DATE: 1997-07-08
PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 60/051,925
PRIOR FILING DATE: EARLIER FILING DATE: 1997-07-08
PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 60/051,929

PRIOR FILING DATE: EARLIER FILING DATE: 1997-07-08
PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 60/052,803
PRIOR FILING DATE: EARLIER FILING DATE: 1997-07-08
PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 60/052,732
PRIOR FILING DATE: EARLIER FILING DATE: 1997-07-08
PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 60/051,931
PRIOR FILING DATE: EARLIER FILING DATE: 1997-07-08
PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 60/051,932
PRIOR FILING DATE: EARLIER FILING DATE: 1997-07-08
PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 60/051,916
PRIOR FILING DATE: EARLIER FILING DATE: 1997-07-08
PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 60/051,930
PRIOR FILING DATE: EARLIER FILING DATE: 1997-07-08
PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 60/051,918
PRIOR FILING DATE: EARLIER FILING DATE: 1997-07-08
PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 60/051,920
PRIOR FILING DATE: EARLIER FILING DATE: 1997-07-08
PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 60/052,733
PRIOR FILING DATE: EARLIER FILING DATE: 1997-07-08
PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 60/052,795
PRIOR FILING DATE: EARLIER FILING DATE: 1997-07-08
PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 60/051,919
PRIOR FILING DATE: EARLIER FILING DATE: 1997-07-08
PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 60/051,928
PRIOR FILING DATE: EARLIER FILING DATE: 1997-07-08
PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 60/055,722
PRIOR FILING DATE: EARLIER FILING DATE: 1997-08-18
PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 60/055,948
PRIOR FILING DATE: EARLIER FILING DATE: 1997-08-18
PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 60/055,949
PRIOR FILING DATE: EARLIER FILING DATE: 1997-08-18
PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 60/055,953
PRIOR FILING DATE: EARLIER FILING DATE: 1997-08-18
PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 60/055,950
PRIOR FILING DATE: EARLIER FILING DATE: 1997-08-18
PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 60/055,947
PRIOR FILING DATE: EARLIER FILING DATE: 1997-08-18
PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 60/055,964
PRIOR FILING DATE: EARLIER FILING DATE: 1997-08-18
PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 60/056,360
PRIOR FILING DATE: EARLIER FILING DATE: 1997-08-18
PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 60/055,684
PRIOR FILING DATE: EARLIER FILING DATE: 1997-08-18
PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 60/055,984
PRIOR FILING DATE: EARLIER FILING DATE: 1997-08-18
PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 60/055,954
PRIOR FILING DATE: EARLIER FILING DATE: 1997-08-18
PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 60/058,785
PRIOR FILING DATE: EARLIER FILING DATE: 1997-09-12
PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 60/058,664
PRIOR FILING DATE: EARLIER FILING DATE: 1997-09-12
PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 60/058,660
PRIOR FILING DATE: EARLIER FILING DATE: 1997-09-12
PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 60/058,661
NUMBER OF SEQ ID NOS: 672
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 444
LENGTH: 21
TYPE: PRT
ORGANISM: Homo sapiens
US-09-983-802-444

Query Match 75.9% Score 44; DB 3; Length 21;
Best Local Similarity 100.0%; Pred. No. 8.2;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
4 VCPMCA 9
2 VCPMCA 7
Db

RESULT 21
US-09-984-490-444
Sequence 444, Application US/09984490
Publication No. US20030064412A1
GENERAL INFORMATION:
APPLICANT: Fiecher et al.
TITLE OF INVENTION: 123 Human Secreted Proteins
FILE REFERENCE: P2010P1
CURRENT APPLICATION NUMBER: US/09/984,490
CURRENT FILING DATE: 2001-10-30
PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 09/227,357
PRIOR FILING DATE: EARLIER FILING DATE: 1999-01-08
PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: PCT/US98/13684
PRIOR FILING DATE: EARLIER FILING DATE: 1998-07-07
PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 60/051,926
PRIOR FILING DATE: EARLIER FILING DATE: 1997-07-08
PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 60/052,793
PRIOR FILING DATE: EARLIER FILING DATE: 1997-07-08
PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 60/051,925
PRIOR FILING DATE: EARLIER FILING DATE: 1997-07-08
PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 60/051,929
PRIOR FILING DATE: EARLIER FILING DATE: 1997-07-08
PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 60/052,803
PRIOR FILING DATE: EARLIER FILING DATE: 1997-07-08
PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 60/052,732
PRIOR FILING DATE: EARLIER FILING DATE: 1997-07-08
PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 60/051,931
PRIOR FILING DATE: EARLIER FILING DATE: 1997-07-08
PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 60/051,932
PRIOR FILING DATE: EARLIER FILING DATE: 1997-07-08
PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 60/051,916
PRIOR FILING DATE: EARLIER FILING DATE: 1997-07-08
PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 60/051,930
PRIOR FILING DATE: EARLIER FILING DATE: 1997-07-08
PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 60/051,918
PRIOR FILING DATE: EARLIER FILING DATE: 1997-07-08
PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 60/051,920
PRIOR FILING DATE: EARLIER FILING DATE: 1997-07-08
PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 60/052,733
PRIOR FILING DATE: EARLIER FILING DATE: 1997-07-08
PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 60/052,795
PRIOR FILING DATE: EARLIER FILING DATE: 1997-07-08
PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 60/051,919
PRIOR FILING DATE: EARLIER FILING DATE: 1997-07-08
PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 60/051,928
PRIOR FILING DATE: EARLIER FILING DATE: 1997-07-08
PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 60/055,722
PRIOR FILING DATE: EARLIER FILING DATE: 1997-08-18
PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 60/055,948
PRIOR FILING DATE: EARLIER FILING DATE: 1997-08-18
PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 60/055,954
PRIOR FILING DATE: EARLIER FILING DATE: 1997-08-18
PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 60/058,785
PRIOR FILING DATE: EARLIER FILING DATE: 1997-09-12
PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 60/058,664
PRIOR FILING DATE: EARLIER FILING DATE: 1997-09-12
PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 60/058,660
PRIOR FILING DATE: EARLIER FILING DATE: 1997-09-12
PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 60/058,661
NUMBER OF SEQ ID NOS: 672
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 444
LENGTH: 21
TYPE: PRT
ORGANISM: Homo sapiens
US-09-983-802-444

PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 60/058,664
PRIOR FILING DATE: EARLIER FILING DATE: 1997-09-12
PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 60/058,660
PRIOR FILING DATE: EARLIER FILING DATE: 1997-09-12
PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 60/058,661
PRIOR FILING DATE: EARLIER FILING DATE: 1997-09-12
NUMBER OF SEQ ID NOS: 672
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 444
LENGTH: 21
TYPE: PRT
ORGANISM: Homo sapiens
US-09-984-490-444

Query Match 75.9%; Score 44; DB 3; Length 21;
Best Local Similarity 100.0%; Pred. No. 8.2;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 4 VCPMCA 9
DB 2 VCPMCA 7

RESULT 22
US-09-973-278-572
Sequence 572, Application US/09973278
Publication No. US2004004191A1
GENERAL INFORMATION:
APPLICANT: Fischer et al.
TITLE OF INVENTION: 123 Human Secreted Proteins
FILE REFERENCE: P2010P2
CURRENT APPLICATION NUMBER: US/09/973,278
CURRENT FILING DATE: 2001-10-10
PRIOR APPLICATION NUMBER: 60/239,899
PRIOR FILING DATE: 2000-10-13
PRIOR APPLICATION NUMBER: 09/227,357
PRIOR FILING DATE: 1999-01-08
PRIOR APPLICATION NUMBER: PCT/US98/13684
PRIOR FILING DATE: 1998-07-07
PRIOR APPLICATION NUMBER: 60/051,926
PRIOR FILING DATE: 1997-07-08
PRIOR APPLICATION NUMBER: 60/052,793
PRIOR FILING DATE: 1997-07-08
PRIOR APPLICATION NUMBER: 60/051,925
PRIOR FILING DATE: 1997-07-08
PRIOR APPLICATION NUMBER: 60/051,929
PRIOR FILING DATE: 1997-07-08
PRIOR APPLICATION NUMBER: 60/052,803
PRIOR FILING DATE: 1997-07-08
PRIOR APPLICATION NUMBER: 60/052,732
PRIOR FILING DATE: 1997-07-08
PRIOR APPLICATION NUMBER: 60/051,931
PRIOR FILING DATE: 1997-07-08
PRIOR APPLICATION NUMBER: 60/051,932
PRIOR FILING DATE: 1997-07-08
PRIOR APPLICATION NUMBER: 60/051,916
PRIOR FILING DATE: 1997-07-08
PRIOR APPLICATION NUMBER: 60/051,930
PRIOR FILING DATE: 1997-07-08
PRIOR APPLICATION NUMBER: 60/051,918
PRIOR FILING DATE: 1997-07-08
PRIOR APPLICATION NUMBER: 60/051,920
PRIOR FILING DATE: 1997-07-08
PRIOR APPLICATION NUMBER: 60/052,733
PRIOR FILING DATE: 1997-07-08
PRIOR APPLICATION NUMBER: 60/052,795
PRIOR FILING DATE: 1997-07-08
PRIOR APPLICATION NUMBER: 60/051,919
PRIOR FILING DATE: 1997-07-08
PRIOR APPLICATION NUMBER: 60/051,928
PRIOR FILING DATE: 1997-07-08
PRIOR APPLICATION NUMBER: 60/055,722
PRIOR FILING DATE: 1997-08-18

PRIOR APPLICATION NUMBER: 60/055,723
PRIOR FILING DATE: 1997-08-18
PRIOR APPLICATION NUMBER: 60/055,948
PRIOR FILING DATE: 1997-08-18
PRIOR APPLICATION NUMBER: 60/055,949
PRIOR FILING DATE: 1997-08-18
PRIOR APPLICATION NUMBER: 60/055,953
PRIOR FILING DATE: 1997-08-18
PRIOR APPLICATION NUMBER: 60/055,950
PRIOR FILING DATE: 1997-08-18
PRIOR APPLICATION NUMBER: 60/055,947
PRIOR FILING DATE: 1997-08-18
PRIOR APPLICATION NUMBER: 60/055,964
PRIOR FILING DATE: 1997-08-18
PRIOR APPLICATION NUMBER: 60/055,984
PRIOR FILING DATE: 1997-08-18
PRIOR APPLICATION NUMBER: 60/055,954
PRIOR FILING DATE: 1997-08-18
PRIOR APPLICATION NUMBER: 60/058,785
PRIOR FILING DATE: 1997-09-12
PRIOR APPLICATION NUMBER: 60/058,664
PRIOR FILING DATE: 1997-09-12
PRIOR APPLICATION NUMBER: 60/058,660
PRIOR FILING DATE: 1997-09-12
PRIOR APPLICATION NUMBER: 60/058,661
PRIOR FILING DATE: 1997-09-12
NUMBER OF SEQ ID NOS: 947
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 572
LENGTH: 21
TYPE: PRT
ORGANISM: Homo sapiens
US-09-973-278-572

Query Match 75.9%; Score 44; DB 3; Length 21;
Best Local Similarity 100.0%; Pred. No. 8.2;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 4 VCPMCA 9
DB 2 VCPMCA 7

RESULT 23
US-09-983-802-443
Sequence 443, Application US/09983802
Publication No. US20030022185A1
GENERAL INFORMATION:
APPLICANT: Fischer et al.
TITLE OF INVENTION: 123 Human Secreted Proteins
FILE REFERENCE: P2010P1
CURRENT APPLICATION NUMBER: US/09/983,802
CURRENT FILING DATE: 2001-10-25
PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 09/227,357
PRIOR FILING DATE: 1999-01-08
PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: PCT/US98/13684
PRIOR FILING DATE: EARLIER FILING DATE: 1998-07-07
PRIOR APPLICATION NUMBER: 60/051,926
PRIOR FILING DATE: 1997-07-08
PRIOR APPLICATION NUMBER: 60/052,793
PRIOR FILING DATE: 1997-07-08
PRIOR APPLICATION NUMBER: 60/051,929
PRIOR FILING DATE: 1997-07-08
PRIOR APPLICATION NUMBER: 60/052,803
PRIOR FILING DATE: 1997-07-08
PRIOR APPLICATION NUMBER: 60/052,732
PRIOR FILING DATE: 1997-07-08

[illegible]

PRIOR FILING DATE: EARLIER FILING DATE: 1997-09-12
NUMBER OF SEQ ID NOS: 672
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 443
LENGTH: 149
TYPE: PRT
ORGANISM: Homo sapiens
US-09-984-490-443

Query Match 75.9%; Score 44; DB 3; Length 149;
Best Local Similarity 100.0%; Pred. No. 40;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 4 VCPWCA 9
DB 11 VCPWCA 16

RESULT 25
US-09-973-278-571
Sequence 571, Application US/09973278
Publication No. US2004004191A1
GENERAL INFORMATION:
APPLICANT: Fischer et al.
TITLE OF INVENTION: 123 Human Secreted Proteins
FILE REFERENCE: P2010P2
CURRENT APPLICATION NUMBER: US/09/973,278
PRIOR FILING DATE: 2001-10-10
PRIOR APPLICATION NUMBER: 60/239,899
PRIOR FILING DATE: 2000-10-13
PRIOR APPLICATION NUMBER: 09/227,357
PRIOR FILING DATE: 1999-01-08
PRIOR APPLICATION NUMBER: PCT/US98/13684
PRIOR FILING DATE: 1998-07-07
PRIOR APPLICATION NUMBER: 60/051,926
PRIOR FILING DATE: 1997-07-08
PRIOR APPLICATION NUMBER: 60/052,793
PRIOR FILING DATE: 1997-07-08
PRIOR APPLICATION NUMBER: 60/051,925
PRIOR FILING DATE: 1997-07-08
PRIOR APPLICATION NUMBER: 60/051,929
PRIOR FILING DATE: 1997-07-08
PRIOR APPLICATION NUMBER: 60/052,803
PRIOR FILING DATE: 1997-07-08
PRIOR APPLICATION NUMBER: 60/052,732
PRIOR FILING DATE: 1997-07-08
PRIOR APPLICATION NUMBER: 60/051,931
PRIOR FILING DATE: 1997-07-08
PRIOR APPLICATION NUMBER: 60/051,932
PRIOR FILING DATE: 1997-07-08
PRIOR APPLICATION NUMBER: 60/051,916
PRIOR FILING DATE: 1997-07-08
PRIOR APPLICATION NUMBER: 60/051,930
PRIOR FILING DATE: 1997-07-08
PRIOR APPLICATION NUMBER: 60/051,918
PRIOR FILING DATE: 1997-07-08
PRIOR APPLICATION NUMBER: 60/051,920
PRIOR FILING DATE: 1997-07-08
PRIOR APPLICATION NUMBER: 60/052,733
PRIOR FILING DATE: 1997-07-08
PRIOR APPLICATION NUMBER: 60/052,795
PRIOR FILING DATE: 1997-07-08
PRIOR APPLICATION NUMBER: 60/051,919
PRIOR FILING DATE: 1997-07-08
PRIOR APPLICATION NUMBER: 60/051,928
PRIOR FILING DATE: 1997-07-08
PRIOR APPLICATION NUMBER: 60/055,722
PRIOR FILING DATE: 1997-08-18
PRIOR APPLICATION NUMBER: 60/055,723
PRIOR FILING DATE: 1997-08-18
PRIOR APPLICATION NUMBER: 60/055,948
PRIOR FILING DATE: 1997-08-18
PRIOR APPLICATION NUMBER: 60/055,949

PRIOR FILING DATE: 1997-08-18
PRIOR APPLICATION NUMBER: 60/055,953
PRIOR FILING DATE: 1997-08-18
PRIOR APPLICATION NUMBER: 60/055,950
PRIOR FILING DATE: 1997-08-18
PRIOR APPLICATION NUMBER: 60/055,947
PRIOR FILING DATE: 1997-08-18
PRIOR APPLICATION NUMBER: 60/055,964
PRIOR FILING DATE: 1997-08-18
PRIOR APPLICATION NUMBER: 60/056,360
PRIOR FILING DATE: 1997-08-18
PRIOR APPLICATION NUMBER: 60/055,684
PRIOR FILING DATE: 1997-08-18
PRIOR APPLICATION NUMBER: 60/055,984
PRIOR FILING DATE: 1997-08-18
PRIOR APPLICATION NUMBER: 60/055,954
PRIOR FILING DATE: 1997-08-18
PRIOR APPLICATION NUMBER: 60/058,785
PRIOR FILING DATE: 1997-09-12
PRIOR APPLICATION NUMBER: 60/058,664
PRIOR FILING DATE: 1997-09-12
PRIOR APPLICATION NUMBER: 60/058,660
PRIOR FILING DATE: 1997-09-12
PRIOR APPLICATION NUMBER: 60/058,661
PRIOR FILING DATE: 1997-09-12
NUMBER OF SEQ ID NOS: 947
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 571
LENGTH: 149
TYPE: PRT
ORGANISM: Homo sapiens
US-09-973-278-571

Query Match 75.9%; Score 44; DB 3; Length 149;
Best Local Similarity 100.0%; Pred. No. 40;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 4 VCPWCA 9
DB 11 VCPWCA 16

RESULT 26
US-10-425-115-209517
Sequence 209517, Application US/10425115
Publication No. US20040214272A1
GENERAL INFORMATION:
APPLICANT: La Rosa, Thomas J.
APPLICANT: Kovalic, David K.
APPLICANT: Zhou, Yihua
TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
FILE REFERENCE: 38-21(53222)B
CURRENT APPLICATION NUMBER: US/10/425,115
PRIOR FILING DATE: 2003-04-28
NUMBER OF SEQ ID NOS: 369326
SEQ ID NO 209517
LENGTH: 232
TYPE: PRT
ORGANISM: Zea mays
FEATURE:
NAME/KEY: unsure
LOCATION: (1)..(232)
OTHER INFORMATION: unsure at all Xaa locations
FEATURE:
OTHER INFORMATION: Clone ID: MRT4577_122674C.1.pep
US-10-425-115-209517

Query Match 74.1%; Score 43; DB 4; Length 232;
Best Local Similarity 75.0%; Pred. No. 82;
Matches 6; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 LSFVCPWC 8
Db 79 LSFVCPWC 86

RESULT 27
US-10-437-963-196562

Sequence 196562, Application US/10437963

Publication No. US20040123343A1

GENERAL INFORMATION:

APPLICANT: La Rosa, Thomas J.

APPLICANT: Kovacic, David K.

APPLICANT: Zhou, Yihua

APPLICANT: Cao, Yongwei

APPLICANT: Wu, Wei

APPLICANT: Boukharov, Andrey A.

APPLICANT: Barbazuk, Brad

APPLICANT: Li, Ping

TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With

TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement

FILE REFERENCE: 38-21(53221)B

CURRENT APPLICATION NUMBER: US/10/437,963

CURRENT FILING DATE: 2003-05-14

NUMBER OF SEQ ID NOS: 204966

SEQ ID NO 196562

LENGTH: 56

TYPE: PRT

ORGANISM: Oryza sativa

FEATURE:

OTHER INFORMATION: Clone ID: PAT_MRT4530_92401C.1.pcp

US-10-437-963-196562

Query Match 72.4%; Score 42; DB 4; Length 56;
Best Local Similarity 85.7%; Pred. No. 36;

Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 LSFVCPWC 7
Db 1 LSFVCPWC 7

RESULT 28
US-10-437-963-183537

Sequence 183537, Application US/10437963

Publication No. US20040123343A1

GENERAL INFORMATION:

APPLICANT: La Rosa, Thomas J.

APPLICANT: Kovacic, David K.

APPLICANT: Zhou, Yihua

APPLICANT: Cao, Yongwei

APPLICANT: Wu, Wei

APPLICANT: Boukharov, Andrey A.

APPLICANT: Barbazuk, Brad

APPLICANT: Li, Ping

TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With

TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement

FILE REFERENCE: 38-21(53221)B

CURRENT APPLICATION NUMBER: US/10/437,963

CURRENT FILING DATE: 2003-05-14

NUMBER OF SEQ ID NOS: 204966

SEQ ID NO 183537

LENGTH: 325

TYPE: PRT

ORGANISM: Oryza sativa

FEATURE:

OTHER INFORMATION: Clone ID: PAT_MRT4530_80619C.1.pcp

US-10-437-963-183537

Query Match 72.4%; Score 42; DB 4; Length 325;
Best Local Similarity 77.8%; Pred. No. 1.5e+02;

Matches 7; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 LSFVCPWC 9

Db 100 VSFVCPCTCA 108

RESULT 29
US-10-447-161-145

Sequence 145, Application US/10447161

Publication No. US20040023314A1

GENERAL INFORMATION:

APPLICANT: Wang, Rong-fu

TITLE OF INVENTION: Mutant Fibronectin and Tumor Metastasis

FILE REFERENCE: HO-P02484US1

CURRENT APPLICATION NUMBER: US/10/447,161

CURRENT FILING DATE: 2003-05-28

PRIOR FILING DATE: 2002-05-28

NUMBER OF SEQ ID NOS: 148

SOFTWARE: PatentIn version 3.1

SEQ ID NO 145

LENGTH: 13

TYPE: PRT

ORGANISM: Artificial Sequence

FEATURE:

OTHER INFORMATION: Synthetic Peptide

US-10-447-161-145

Query Match 70.7%; Score 41; DB 4; Length 13;
Best Local Similarity 87.5%; Pred. No. 16;
Matches 7; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 LSFVCPWC 8
Db 6 LSFVCPWC 13

RESULT 30
US-10-425-115-289517

Sequence 289517, Application US/10425115

Publication No. US20040214272A1

GENERAL INFORMATION:

APPLICANT: La Rosa, Thomas J.

APPLICANT: Kovacic, David K.

APPLICANT: Zhou, Yihua

APPLICANT: Cao, Yongwei

TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With

TITLE OF INVENTION: Plants

FILE REFERENCE: 38-21(53222)B

CURRENT APPLICATION NUMBER: US/10/425,115

CURRENT FILING DATE: 2003-04-28

NUMBER OF SEQ ID NOS: 369326

SEQ ID NO 289517

LENGTH: 228

TYPE: PRT

ORGANISM: Zea mays

FEATURE:

NAME/KEY: unsure

LOCATION: (1)..(228)

OTHER INFORMATION: unsure at all Xaa locations

FEATURE:

OTHER INFORMATION: Clone ID: MRT4577_27128C.1.pcp

US-10-425-115-289517

Query Match 70.7%; Score 41; DB 4; Length 228;
Best Local Similarity 83.3%; Pred. No. 1.6e+02;
Matches 5; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 4 VCPWCA 9
Db 199 LCPWCA 204

RESULT 31
US-10-029-386-32972

```
Sequence 32972, Application US/10029386
; Publication No. US20030194704A1
; GENERAL INFORMATION:
; APPLICANT: Penn, Sharon G.
; APPLICANT: Rank, David R.
; APPLICANT: Hanzel, David K.
; TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FOR G
; FILE REFERENCE: ABOMICA-X-2
; CURRENT APPLICATION NUMBER: US/10/029,386
; CURRENT FILING DATE: 2001-12-20
; NUMBER OF SEQ ID NOS: 34288
; SOFTWARE: Anomax Sequence Listing Engine vers. 1.1
; SEQ ID NO 32972
; LENGTH: 240
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; OTHER INFORMATION: MAP TO AL096708.11
; OTHER INFORMATION: EXPRESSED IN BRAIN, SIGNAL = 1
; OTHER INFORMATION: EXPRESSED IN HEART, SIGNAL = 1.3
; OTHER INFORMATION: EXPRESSED IN BONE MARROW, SIGNAL = 1
; OTHER INFORMATION: EXPRESSED IN HELA, SIGNAL = 1
; OTHER INFORMATION: SWISSPROT HIT: P27571, EVALU8 8.60e+00
US-10-029-386-32972

Query Match
Best Local Similarity 70.7%; Score 41; DB 4; Length 240;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 SPVCPM 7
DB 116 SPVCPM 121

RESULT 32
US-10-357-567-35
; Sequence 35, Application US/10357567
; Publication No. US20040038382A1
; GENERAL INFORMATION:
; APPLICANT: Coschigano, Peter
; TITLE OF INVENTION: Compositions and Methods for Bioremediation
; FILE REFERENCE: OHU-07748
; CURRENT APPLICATION NUMBER: US/10/357,567
; CURRENT FILING DATE: 2003-02-04
; PRIOR APPLICATION NUMBER: 09/072,433
; PRIOR FILING DATE: 1998-05-04
; PRIOR APPLICATION NUMBER: 60/046,845
; PRIOR FILING DATE: 1997-05-05
; NUMBER OF SEQ ID NOS: 71
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 35
; LENGTH: 292
; TYPE: PRT
; ORGANISM: Escherichia coli
US-10-357-567-35

Query Match
Best Local Similarity 70.7%; Score 41; DB 4; Length 292;
Matches 5; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 4 VCPWCA 9
DB 50 LCPWCA 55

RESULT 33
US-10-450-763-41123
; Sequence 41123, Application US/10450763
; Publication No. US20050196754A1
; GENERAL INFORMATION:
; APPLICANT: Hyseg, Inc
; TITLE OF INVENTION: NOVEL NUCLEIC ACIDS AND POLYPEPTIDES
```

```
FILE REFERENCE: 790CIP3/US
; CURRENT APPLICATION NUMBER: US/10/450,763
; CURRENT FILING DATE: 2003-06-11
; PRIOR APPLICATION NUMBER: PCT/US01/08631
; PRIOR FILING DATE: 2001-03-30
; PRIOR APPLICATION NUMBER: 09/540,217
; PRIOR FILING DATE: 2000-03-31
; PRIOR APPLICATION NUMBER: 09/649,167
; PRIOR FILING DATE: 2000-08-23
; NUMBER OF SEQ ID NOS: 60736
; SOFTWARE: Custom
; SEQ ID NO 41123
; LENGTH: 334
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: DOMAIN
; LOCATION: (155)..(183)
; OTHER INFORMATION: Radical activating enzymes protease domain identified by
; OTHER INFORMATION: EMATRIX, accession number BL01087A, p-value=8.200e-14, raw score c
; OTHER INFORMATION: 19.50
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)...(334)
; OTHER INFORMATION: Xaa = X or * as defined in Table 2
US-10-450-763-41123

Query Match
Best Local Similarity 70.7%; Score 41; DB 5; Length 334;
Matches 5; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 4 VCPWCA 9
DB 175 LCPWCA 180

RESULT 34
US-10-369-493-21669
; Sequence 21669, Application US/10369493
; Publication No. US20030233675A1
; GENERAL INFORMATION:
; APPLICANT: Cao, Yongwei
; APPLICANT: Hinkle, Steven J.
; APPLICANT: Slater, Steven C.
; APPLICANT: Goldman, Barry S.
; APPLICANT: Chen, Xianfeng
; TITLE OF INVENTION: EXPRESSION OF MICROBIAL PROTEINS IN PLANTS FOR PRODUCTION OF
; FILE REFERENCE: 38-10(52052)B
; CURRENT APPLICATION NUMBER: US/10/369,493
; CURRENT FILING DATE: 2003-02-28
; PRIOR APPLICATION NUMBER: US 60/360,039
; PRIOR FILING DATE: 2002-02-21
; NUMBER OF SEQ ID NOS: 47374
; SEQ ID NO 21669
; LENGTH: 686
; TYPE: PRT
; ORGANISM: Pyrococcus abyssi
US-10-369-493-21669

Query Match
Best Local Similarity 70.7%; Score 41; DB 4; Length 686;
Matches 5; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 4 VCPWCA 9
DB 9 VCPWCS 14

RESULT 35
US-10-450-763-37550
; Sequence 37550, Application US/10450763
; Publication No. US20050196754A1
```

GENERAL INFORMATION:
APPLICANT: Hyseq, Inc
TITLE OF INVENTION: NOVEL NUCLEIC ACIDS AND POLYPEPTIDES
FILE REFERENCE: 790CIP3/US
CURRENT APPLICATION NUMBER: US/10/450,763
CURRENT FILING DATE: 2003-06-11
PRIOR APPLICATION NUMBER: PCT/US01/08631
PRIOR FILING DATE: 2001-03-30
PRIOR APPLICATION NUMBER: 09/540,217
PRIOR FILING DATE: 2000-03-31
PRIOR APPLICATION NUMBER: 09/649,167
PRIOR FILING DATE: 2000-08-23
NUMBER OF SEQ ID NOS: 60736
SOFTWARE: Custom
SEQ ID NO 37550
LENGTH: 2506
TYPE: PRT
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: DOMAIN
LOCATION: (143)..(192)
OTHER INFORMATION: Thiamine pyrophosphate enzymes proteins domain identified by
OTHER INFORMATION: EMATRIX, accession number BL00187E, p-value=7.577e-33, raw score
OTHER INFORMATION: 31.32
FEATURE:
NAME/KEY: DOMAIN
LOCATION: (66)..(200)
OTHER INFORMATION: Thiamine pyrophosphate enzymes domain identified by Pfam,
OTHER INFORMATION: accession name TPP_enzymes, E-value=2.6e-68, Pfam score of 221.7
US-10-450-763-37550

Query Match 70.7%; Score 41; DB 5; Length 2506;
Best Local Similarity 83.3%; Pred. No. 1.2e+03;
Matches 5; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 4 VCPWCA 9
Db 2192 LCPWCA 2197

RESULT 36
US-10-450-763-60423
Sequence 60423, Application US/10450763
Publication No. US20050196754A1
GENERAL INFORMATION:
APPLICANT: Hyseq, Inc
TITLE OF INVENTION: NOVEL NUCLEIC ACIDS AND POLYPEPTIDES
FILE REFERENCE: 790CIP3/US
CURRENT APPLICATION NUMBER: US/10/450,763
CURRENT FILING DATE: 2003-06-11
PRIOR APPLICATION NUMBER: PCT/US01/08631
PRIOR FILING DATE: 2001-03-30
PRIOR APPLICATION NUMBER: 09/540,217
PRIOR FILING DATE: 2000-03-31
PRIOR APPLICATION NUMBER: 09/649,167
PRIOR FILING DATE: 2000-08-23
NUMBER OF SEQ ID NOS: 60736
SOFTWARE: Custom
SEQ ID NO 60423
LENGTH: 2506
TYPE: PRT
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: DOMAIN
LOCATION: (143)..(192)
OTHER INFORMATION: Thiamine pyrophosphate enzymes proteins domain identified by
OTHER INFORMATION: EMATRIX, accession number BL00187E, p-value=7.577e-33, raw score
OTHER INFORMATION: 31.32
FEATURE:
NAME/KEY: DOMAIN
LOCATION: (66)..(200)
OTHER INFORMATION: Thiamine pyrophosphate enzymes domain identified by Pfam,
OTHER INFORMATION: accession name TPP_enzymes, E-value=2.6e-68, Pfam score of 221.7

US-10-450-763-60423

Query Match 70.7%; Score 41; DB 5; Length 2506;
Best Local Similarity 83.3%; Pred. No. 1.2e+03;
Matches 5; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 4 VCPWCA 9
Db 2192 LCPWCA 2197

RESULT 37
US-10-425-115-227037
Sequence 227037, Application US/10425115
Publication No. US20040214272A1
GENERAL INFORMATION:
APPLICANT: La Rosa, Thomas J.
APPLICANT: Kovalic, David K.
APPLICANT: Zhou, Yihua
APPLICANT: Cao, Yongwei
TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
FILE REFERENCE: 38-21(53222)B
CURRENT APPLICATION NUMBER: US/10/425,115
CURRENT FILING DATE: 2003-04-28
NUMBER OF SEQ ID NOS: 369326
SEQ ID NO 227037
LENGTH: 81
TYPE: PRT
ORGANISM: Zea mays
FEATURE:
OTHER INFORMATION: Clone ID: MRT4577_138647C.1.pcp
US-10-425-115-227037

Query Match 69.0%; Score 40; DB 4; Length 81;
Best Local Similarity 100.0%; Pred. No. .99;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 5 CPMCA 9
Db 51 CPMCA 55

RESULT 38
US-10-437-963-194594
Sequence 194594, Application US/10437963
Publication No. US20040123343A1
GENERAL INFORMATION:
APPLICANT: La Rosa, Thomas J.
APPLICANT: Kovalic, David K.
APPLICANT: Zhou, Yihua
APPLICANT: Cao, Yongwei
APPLICANT: Wu, Wei
APPLICANT: Boukharov, Andrey A.
APPLICANT: Barzak, Brad
TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
FILE REFERENCE: 38-21(53221)B
CURRENT APPLICATION NUMBER: US/10/437,963
CURRENT FILING DATE: 2003-05-14
NUMBER OF SEQ ID NOS: 204966
SEQ ID NO 194594
LENGTH: 83
TYPE: PRT
ORGANISM: Oryza sativa
FEATURE:
OTHER INFORMATION: Clone ID: PAT_MRT4530_90624C.1.pcp
US-10-437-963-194594

Query Match 69.0%; Score 40; DB 4; Length 83;
Best Local Similarity 100.0%; Pred. No. 1e+02;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 4 VCPWC 8
DB 14 VCPWC 18

RESULT 39

US-10-424-599-203179
; Sequence 203179, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa Thomas J
; APPLICANT: Kovalic David K
; APPLICANT: Zhou Yihua
; APPLICANT: Cao Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 203179
; LENGTH: 85
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_25496C.1.pep
US-10-424-599-203179

Query Match 69.0%; Score 40; DB 4; Length 85;
Best Local Similarity 100.0%; Pred. No. 1e+02;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 4 VCPWC 8
DB 13 VCPWC 17

RESULT 40

US-09-864-408A-3052
; Sequence 3052, Application US/09864408A
; Publication No. US2004009474A1
; GENERAL INFORMATION:
; APPLICANT: Leach, Martin D.
; APPLICANT: Shinkete, Richard A.
; TITLE OF INVENTION: No. US2004009474A1 Human Polynucleotides and Polypeptides Enco
; FILE REFERENCE: 21402-012
; CURRENT APPLICATION NUMBER: US/09/864,408A
; CURRENT FILING DATE: 2001-05-24
; PRIOR APPLICATION NUMBER: 60/206,690
; PRIOR FILING DATE: 2000-05-24
; NUMBER OF SEQ ID NOS: 9068
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 3052
; LENGTH: 107
; TYPE: PRT
; ORGANISM: Homo sapiens
; OTHER INFORMATION: Clone ID: PAT_MRT3847_25496C.1.pep
US-09-864-408A-3052

Query Match 69.0%; Score 40; DB 3; Length 107;
Best Local Similarity 62.5%; Pred. No. 1.2e+02;
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 2 SPVCPWCA 9
DB 58 SYLCWCA 65

RESULT 41

US-10-437-963-112602
; Sequence 112602, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:

; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; APPLICANT: Wu, Wei
; APPLICANT: Boukharov, Andrey A.
; APPLICANT: Barbazuk, Brad
; APPLICANT: Li, Ping
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53221)B
; CURRENT APPLICATION NUMBER: US/10/437,963
; CURRENT FILING DATE: 2003-05-14
; NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 112602
; LENGTH: 112
; TYPE: PRT
; ORGANISM: Oryza sativa
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT4530_16471C.1.pep
US-10-437-963-112602

Query Match 69.0%; Score 40; DB 4; Length 112;
Best Local Similarity 100.0%; Pred. No. 1.3e+02;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 5 CPWCA 9
DB 53 CPWCA 57

RESULT 42

US-10-425-115-282360
; Sequence 282360, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53222)B
; CURRENT APPLICATION NUMBER: US/10/425,115
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 282360
; LENGTH: 122
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: MRT4577_20610C.1.pep
US-10-425-115-282360

Query Match 69.0%; Score 40; DB 4; Length 122;
Best Local Similarity 100.0%; Pred. No. 1.4e+02;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 4 VCPWC 8
DB 40 VCPWC 44

RESULT 43

US-10-425-115-319788
; Sequence 319788, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With

;; TITLE OF INVENTION: Plants
;; FILE REFERENCE: 38-21(53222)B
;; CURRENT APPLICATION NUMBER: US/10/425,115
;; CURRENT FILING DATE: 2003-04-28
;; NUMBER OF SEQ ID NOS: 369326
;; SEQ ID NO 319788
;; LENGTH: 135
;; TYPE: PRT
;; ORGANISM: Zea mays
;; FEATURE:
;; NAME/KEY: unsure
;; LOCATION: (1)..(135)
;; OTHER INFORMATION: unsure at all Xaa locations
;; FEATURE:
;; OTHER INFORMATION: Clone ID: MRT4577_54715C.1.pep
US-10-425-115-319788

Query Match 69.0%; Score 40; DB 4; Length 135;
Best Local Similarity 100.0%; Pred. No. 1.5e+02;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 5 CPWCA 9
Db 126 CPWCA 130

RESULT 44
US-10-437-963-148419
;; Sequence 148419, Application US/10437963
;; Publication No. US20040123342A1
;; GENERAL INFORMATION:
;; APPLICANT: La Rosa, Thomas J.
;; APPLICANT: Kovalic, David K.
;; APPLICANT: Zhou, Yihua
;; APPLICANT: Cao, Yongwei
;; APPLICANT: Wu, Wei
;; APPLICANT: Boukharov, Andrey A.
;; APPLICANT: Barbasuk, Brad
;; APPLICANT: Li, Ping
;; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
;; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
;; FILE REFERENCE: 38-21(53221)B
;; CURRENT APPLICATION NUMBER: US/10/437,963
;; CURRENT FILING DATE: 2003-05-14
;; NUMBER OF SEQ ID NOS: 204966
;; SEQ ID NO 148419
;; LENGTH: 149
;; TYPE: PRT
;; ORGANISM: Oryza sativa
;; FEATURE:
;; OTHER INFORMATION: Clone ID: PAT_MRT4530_48852C.1.pep
US-10-437-963-148419

Query Match 69.0%; Score 40; DB 4; Length 149;
Best Local Similarity 87.5%; Pred. No. 1.6e+02;
Matches 7; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2 SFVCPWCA 9
Db 116 SFVCPWCA 123

RESULT 45
US-10-767-701-47491
;; Sequence 47491, Application US/10767701
;; Publication No. US20040172684A1
;; GENERAL INFORMATION:
;; APPLICANT: Kovalic, David K.
;; APPLICANT: Zhou, Yihua
;; APPLICANT: Cao, Yongwei
;; APPLICANT: Zhou, Yihua
;; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
;; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
;; FILE REFERENCE: 38-21(53535)B

;; CURRENT APPLICATION NUMBER: US/10/767,701
;; CURRENT FILING DATE: 2004-01-29
;; NUMBER OF SEQ ID NOS: 63128
;; SEQ ID NO 47491
;; LENGTH: 154
;; TYPE: PRT
;; ORGANISM: Sorghum bicolor
;; FEATURE:
;; OTHER INFORMATION: Clone ID: LIB3480-056-P1-K1-A4.pep
US-10-767-701-47491

Query Match 69.0%; Score 40; DB 4; Length 154;
Best Local Similarity 85.7%; Pred. No. 1.7e+02;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 3 FVCPWCA 9
Db 48 FVCPWCA 54

RESULT 46
US-10-424-599-243062
;; Sequence 243062, Application US/10424599
;; Publication No. US20040031072A1
;; GENERAL INFORMATION:
;; APPLICANT: La Rosa, Thomas J.
;; APPLICANT: Kovalic, David K.
;; APPLICANT: Zhou, Yihua
;; APPLICANT: Cao, Yongwei
;; APPLICANT: Zhou, Yihua
;; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
;; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
;; FILE REFERENCE: 38-21(53223)B
;; CURRENT APPLICATION NUMBER: US/10/424,599
;; CURRENT FILING DATE: 2003-04-28
;; NUMBER OF SEQ ID NOS: 285684
;; SEQ ID NO 243062
;; LENGTH: 170
;; TYPE: PRT
;; ORGANISM: Glycine max
;; FEATURE:
;; NAME/KEY: unsure
;; LOCATION: (1)..(170)
;; OTHER INFORMATION: unsure at all Xaa locations
;; FEATURE:
;; OTHER INFORMATION: Clone ID: PAT_MRT3847_61513C.1.pep
US-10-424-599-243062

Query Match 69.0%; Score 40; DB 4; Length 170;
Best Local Similarity 100.0%; Pred. No. 1.8e+02;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 4 VCPWC 8
Db 19 VCPWC 23

RESULT 47
US-10-424-599-243060
;; Sequence 243060, Application US/10424599
;; Publication No. US20040031072A1
;; GENERAL INFORMATION:
;; APPLICANT: La Rosa, Thomas J.
;; APPLICANT: Kovalic, David K.
;; APPLICANT: Zhou, Yihua
;; APPLICANT: Cao, Yongwei
;; APPLICANT: Zhou, Yihua
;; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
;; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
;; FILE REFERENCE: 38-21(53223)B
;; CURRENT APPLICATION NUMBER: US/10/424,599
;; CURRENT FILING DATE: 2003-04-28
;; NUMBER OF SEQ ID NOS: 285684
;; SEQ ID NO 243060
;; LENGTH: 213

TYPE: PRT
ORGANISM: Glycine max
FEATURE:
OTHER INFORMATION: Clone ID: PAT_MRT3847_61511C.1.pep
US-10-424-599-243060

Query Match 69.0%; Score 40; DB 4; Length 213;
Best Local Similarity 100.0%; Pred. No. 2.2e+02;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 4 VCPWC 8
DB 19 VCPWC 23

RESULT 48
US-10-767-701-39526
Sequence 39526, Application US/10767701
Publication No. US20040172684A1
GENERAL INFORMATION:
APPLICANT: Kovalic, David K.
APPLICANT: Zhou, Yihua
TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
TITLE OF INVENTION: Plants and Uses Thereof For Plant Improvement
FILE REFERENCE: 38-21(53535)B
CURRENT APPLICATION NUMBER: US/10/767,701
CURRENT FILING DATE: 2004-01-29
NUMBER OF SEQ ID NOS: 63128
SEQ ID NO 39526
LENGTH: 213
TYPE: PRT
ORGANISM: Sorghum bicolor
FEATURE:
OTHER INFORMATION: Clone ID: SORBI-28MAY03-C19478_1.pep
US-10-767-701-39526

Query Match 69.0%; Score 40; DB 4; Length 213;
Best Local Similarity 100.0%; Pred. No. 2.2e+02;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 5 CPWCA 9
DB 134 CPWCA 138

RESULT 49
US-10-425-115-354317
Sequence 354317, Application US/10425115
Publication No. US20040214272A1
GENERAL INFORMATION:
APPLICANT: La Rosa, Thomas J.
APPLICANT: Kovalic, David K.
APPLICANT: Zhou, Yihua
TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
TITLE OF INVENTION: Plants
FILE REFERENCE: 38-21(53222)B
CURRENT APPLICATION NUMBER: US/10/425,115
CURRENT FILING DATE: 2003-04-28
NUMBER OF SEQ ID NOS: 369326
SEQ ID NO 354317
LENGTH: 217
TYPE: PRT
ORGANISM: Zea mays
FEATURE:
NAME/KEY: unsure
LOCATION: (1)..(217)
OTHER INFORMATION: unsure at all Xaa locations
FEATURE:
OTHER INFORMATION: Clone ID: MRT4577_86309C.1.pep
US-10-425-115-354317

Query Match 69.0%; Score 40; DB 4; Length 217;
Best Local Similarity 100.0%; Pred. No. 2.2e+02;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 4 VCPWC 8
DB 26 VCPWC 30

RESULT 50
US-10-425-115-354320
Sequence 354320, Application US/10425115
Publication No. US20040214272A1
GENERAL INFORMATION:
APPLICANT: La Rosa, Thomas J.
APPLICANT: Kovalic, David K.
APPLICANT: Zhou, Yihua
TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
TITLE OF INVENTION: Plants
FILE REFERENCE: 38-21(53222)B
CURRENT APPLICATION NUMBER: US/10/425,115
CURRENT FILING DATE: 2003-04-28
NUMBER OF SEQ ID NOS: 369326
SEQ ID NO 354320
LENGTH: 225
TYPE: PRT
ORGANISM: Zea mays
FEATURE:
NAME/KEY: unsure
LOCATION: (1)..(225)
OTHER INFORMATION: unsure at all Xaa locations
FEATURE:
OTHER INFORMATION: Clone ID: MRT4577_86311C.1.pep
US-10-425-115-354320

Query Match 69.0%; Score 40; DB 4; Length 225;
Best Local Similarity 100.0%; Pred. No. 2.3e+02;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 4 VCPWC 8
DB 19 VCPWC 23

Search completed: May 5, 2006, 08:28:39
Job time : 63 secs

GenCore version 5.1.7
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OM protein - protein search, using sw model

Run on: May 5, 2006, 08:19:00 ; Search time 8.4 Seconds
(without alignment)
49.591 Million cell updates/sec

Title: US-08-170-344-34
Perfect score: 58
Sequence: 1 LSFVCPWCA 9

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 235405 seqs, 46284737 residues
Total number of hits satisfying chosen parameters: 235405

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 1000 summaries

Database : Published Applications_AA_New.*
1: /SIDS5/ptodata/1/pubpaa/US08_NEW_PUB.pep1.*
2: /SIDS5/ptodata/1/pubpaa/US06_NEW_PUB.pep1.*
3: /SIDS5/ptodata/1/pubpaa/US07_NEW_PUB.pep1.*
4: /SIDS5/ptodata/1/pubpaa/US08_NEW_PUB.pep1.*
5: /SIDS5/ptodata/1/pubpaa/PCR_NEW_PUB.pep1.*
6: /SIDS5/ptodata/1/pubpaa/US05_NEW_PUB.pep1.*
7: /SIDS5/ptodata/1/pubpaa/US09_NEW_PUB.pep1.*
8: /SIDS5/ptodata/1/pubpaa/US10_NEW_PUB.pep1.*
9: /SIDS5/ptodata/1/pubpaa/US11_NEW_PUB.pep1.*
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12: /SIDS5/ptodata/1/pubpaa/US60_NEW_PUB.pep1.*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	58	100.0	9	US-10-530-061-655	Sequence 655, App
2	58	100.0	10	US-10-530-061-310	Sequence 310, App
3	58	100.0	105	US-10-530-253-27	Sequence 27, App
4	58	100.0	106	US-10-530-253-32	Sequence 32, App
5	58	94.8	110	US-10-530-253-38	Sequence 38, App
6	54	93.1	9	US-10-530-061-674	Sequence 309, App
7	54	93.1	10	US-10-530-061-309	Sequence 309, App
8	54	93.1	109	US-10-530-253-31	Sequence 31, App
9	45	77.6	15	US-10-530-061-1719	Sequence 1719, App
10	45	77.6	15	US-10-530-061-1730	Sequence 1730, App
11	45	77.6	107	US-10-530-253-37	Sequence 37, App
12	40	69.0	214	US-11-122-396-29	Sequence 29, App
13	39	67.2	101	US-10-530-253-33	Sequence 33, App
14	38	65.5	227	US-11-172-740-2123	Sequence 2123, App
15	38	65.5	227	US-11-172-740-2362	Sequence 2362, App
16	38	65.5	236	US-11-098-686-11423	Sequence 11423, App
17	38	65.5	447	US-11-174-341-171	Sequence 171, App
18	38	65.5	454	US-11-174-341-159	Sequence 159, App
19	38	65.5	845	US-11-174-341-174	Sequence 174, App
20	37	63.8	126	US-11-195-459-14	Sequence 14, App
21	37	63.8	211	US-11-096-568A-33515	Sequence 33515, App

22	63.8	265	11	US-11-096-568A-24007	Sequence 24007, A
23	63.8	301	11	US-11-096-568A-24006	Sequence 24006, A
24	62.1	107	11	US-11-188-298-20213	Sequence 20213, A
25	62.1	123	11	US-11-000-463-392	Sequence 392, App
26	62.1	123	11	US-11-000-463-864	Sequence 864, App
27	62.1	141	9	US-10-506-454-268	Sequence 268, App
28	62.1	174	11	US-11-188-298-2174	Sequence 2174, App
29	62.1	182	11	US-11-188-298-17809	Sequence 17809, A
30	62.1	219	9	US-10-506-454-187	Sequence 187, App
31	62.1	260	11	US-11-172-740-1537	Sequence 1537, App
32	62.1	261	11	US-11-188-298-497	Sequence 497, App
33	62.1	261	11	US-11-188-298-5500	Sequence 5500, App
34	62.1	261	11	US-11-188-298-13909	Sequence 13909, A
35	62.1	263	11	US-11-172-740-1533	Sequence 1533, App
36	62.1	264	11	US-11-172-740-1534	Sequence 1534, App
37	62.1	266	11	US-11-172-740-1535	Sequence 1535, App
38	62.1	267	11	US-11-172-740-1536	Sequence 1536, App
39	62.1	267	11	US-11-188-298-4536	Sequence 4536, App
40	62.1	267	11	US-11-188-298-12720	Sequence 12720, A
41	62.1	270	11	US-11-172-740-1538	Sequence 1538, App
42	62.1	349	9	US-10-131-826A-424	Sequence 424, App
43	62.1	349	9	US-10-973-115B-424	Sequence 424, App
44	62.1	349	9	US-10-216-161A-472	Sequence 472, App
45	62.1	349	9	US-10-137-873A-424	Sequence 424, App
46	62.1	349	9	US-10-152-370-424	Sequence 424, App
47	62.1	349	11	US-11-290-153-424	Sequence 424, App
48	62.1	374	11	US-11-060-023-10	Sequence 10, App
49	62.1	374	11	US-11-228-364-2	Sequence 2, App
50	62.1	374	11	US-11-228-364-4	Sequence 4, App
51	62.1	374	11	US-11-169-041-188	Sequence 188, App
52	62.1	374	11	US-11-227-086-38	Sequence 38, App
53	62.1	374	11	US-11-227-086-39	Sequence 39, App
54	62.1	411	11	US-11-283-290-36	Sequence 36, App
55	62.1	645	9	US-10-821-234-1409	Sequence 1409, App
56	62.1	706	11	US-11-188-299-9665	Sequence 9665, App
57	60.3	17	11	US-11-152-974A-192	Sequence 192, App
58	60.3	17	11	US-11-153-142A-192	Sequence 192, App
59	60.3	433	11	US-11-096-568A-18040	Sequence 18040, A
60	60.3	442	11	US-11-096-568A-18039	Sequence 18039, A
61	60.3	445	11	US-11-087-059-1672	Sequence 1672, App
62	60.3	1039	8	US-10-511-937-2429	Sequence 2429, App
63	60.3	1479	9	US-10-204-639-4	Sequence 4, App
64	60.3	1905	9	US-10-877-346-44	Sequence 44, App
65	58.6	11	9	US-10-530-061-658	Sequence 658, App
66	58.6	15	9	US-10-530-061-1734	Sequence 1734, App
67	58.6	19	11	US-11-229-769-359	Sequence 359, App
68	58.6	19	11	US-11-229-769-360	Sequence 360, App
69	58.6	99	9	US-10-530-253-34	Sequence 34, App
70	58.6	104	9	US-10-530-253-34	Sequence 34, App
71	58.6	129	9	US-10-467-657-4354	Sequence 4354, App
72	58.6	176	9	US-10-821-234-860	Sequence 860, App
73	58.6	214	11	US-11-087-099-6574	Sequence 6574, App
74	58.6	269	11	US-11-000-463-344	Sequence 344, App
75	58.6	280	9	US-10-967-457-75	Sequence 75, App
76	58.6	280	9	US-10-194-487-30	Sequence 30, App
77	58.6	280	9	US-10-195-883-30	Sequence 30, App
78	58.6	280	9	US-10-195-888-30	Sequence 30, App
79	58.6	280	9	US-10-195-889-30	Sequence 30, App
80	58.6	324	11	US-10-878-556A-114	Sequence 114, App
81	58.6	324	11	US-11-229-769-203	Sequence 203, App
82	58.6	345	11	US-11-174-816-44	Sequence 44, App
83	58.6	345	11	US-11-174-816-59	Sequence 59, App
84	58.6	345	11	US-11-174-819-78	Sequence 78, App
85	58.6	345	11	US-11-174-819-78	Sequence 78, App
86	58.6	345	11	US-11-096-568A-19915	Sequence 18915, A
87	58.6	359	11	US-11-229-769-361	Sequence 361, App
88	58.6	392	11	US-11-283-290-25	Sequence 25, App
89	58.6	392	11	US-11-283-290-25	Sequence 25, App
90	58.6	393	11	US-11-096-568A-18914	Sequence 18914, A
91	58.6	414	9	US-10-878-556A-1	Sequence 1, App
92	58.6	425	11	US-11-283-290-35	Sequence 35, App
93	58.6	432	9	US-10-194-487-74	Sequence 74, App
94	58.6	432	9	US-10-195-883-74	Sequence 74, App

95	34	58.6	432	9	US-10-195-888-74	Sequence 74, Appl	168	32	55.2	254	9	US-10-821-234-861	Sequence 861, App
96	34	58.6	432	9	US-10-195-889-74	Sequence 70, Appl	169	32	55.2	255	9	US-10-506-454-807	Sequence 807, App
97	34	58.6	432	9	US-10-216-161A-90	Sequence 90, Appl	170	32	55.2	261	11	US-11-087-099-2636	Sequence 2636, Ap
98	34	58.6	432	9	US-10-501-841-45	Sequence 45, Appl	171	32	55.2	299	9	US-10-506-454-1001	Sequence 1001, Ap
99	34	58.6	449	11	US-11-283-290-34	Sequence 34, Appl	172	32	55.2	304	11	US-11-096-568A-13476	Sequence 13476, A
100	34	58.6	490	11	US-11-096-568A-18913	Sequence 18913, A	173	32	55.2	314	9	US-10-204-639-2	Sequence 2, Appl1
101	34	58.6	492	11	US-11-188-298-21676	Sequence 21676, A	174	32	55.2	336	9	US-10-915-002-214	Sequence 214, App
102	34	58.6	499	11	US-11-283-290-31	Sequence 31, Appl	175	32	55.2	339	11	US-10-915-002-339	Sequence 329, App
103	34	58.6	505	9	US-10-821-234-1287	Sequence 1287, Ap	176	32	55.2	339	11	US-11-096-568A-13475	Sequence 13475, A
104	34	58.6	516	9	US-10-501-035-344	Sequence 344, App	177	32	55.2	385	9	US-10-501-035-210	Sequence 210, App
105	34	58.6	529	9	US-10-194-487-472	Sequence 472, App	178	32	55.2	391	9	US-10-995-561-892	Sequence 892, App
106	34	58.6	529	9	US-10-195-883-472	Sequence 472, App	179	32	55.2	391	9	US-10-995-561-893	Sequence 893, App
107	34	58.6	529	9	US-10-195-888-472	Sequence 472, App	180	32	55.2	398	11	US-11-188-298-4450	Sequence 2450, Ap
108	34	58.6	529	9	US-10-195-889-472	Sequence 472, App	181	32	55.2	431	11	US-11-253-151-32	Sequence 32, Appl
109	34	58.6	529	11	US-11-283-290-28	Sequence 28, Appl	182	32	55.2	433	11	US-11-072-512-1033	Sequence 303, Ap
110	34	58.6	747	9	US-10-131-826A-426	Sequence 426, App	183	32	55.2	458	9	US-10-932-182A-3	Sequence 3, Appl1
111	34	58.6	747	9	US-10-973-115B-426	Sequence 426, App	184	32	55.2	458	9	US-10-932-182A-3	Sequence 3, Appl1
112	34	58.6	747	9	US-10-216-161A-459	Sequence 459, App	185	32	55.2	494	11	US-11-188-298-12254	Sequence 12254, A
113	34	58.6	747	9	US-10-137-873A-426	Sequence 426, App	186	32	55.2	505	11	US-11-188-298-16466	Sequence 16466, A
114	34	58.6	747	9	US-10-152-370-426	Sequence 426, App	187	32	55.2	555	11	US-11-188-298-18750	Sequence 18750, A
115	34	58.6	747	11	US-11-290-153-426	Sequence 426, App	188	32	55.2	752	11	US-11-079-463-8598	Sequence 9598, Ap
116	34	58.6	1855	10	US-11-263-328-125	Sequence 125, App	189	32	55.2	753	11	US-11-186-284-153	Sequence 153, App
117	33	56.9	15	9	US-10-530-061-1727	Sequence 1727, Ap	190	32	55.2	1049	8	US-10-505-928-759	Sequence 759, App
118	33	56.9	97	9	US-10-530-253-29	Sequence 29, Appl	191	32	55.2	1161	9	US-10-511-538-99	Sequence 99, Appl
119	33	56.9	192	9	US-10-793-626-2544	Sequence 2544, Ap	192	32	55.2	1212	11	US-11-188-298-8749	Sequence 8749, Ap
120	33	56.9	259	9	US-10-506-454-1237	Sequence 1237, Ap	193	32	55.2	1404	9	US-10-878-556A-169	Sequence 169, App
121	33	56.9	345	11	US-11-174-815-15	Sequence 15, Appl	194	32	55.2	1963	9	US-10-877-346-43	Sequence 43, Appl
122	33	56.9	345	11	US-11-174-819-70	Sequence 70, Appl	195	32	55.2	73	9	US-10-689-742-212	Sequence 212, App
123	33	56.9	345	11	US-11-174-751-16	Sequence 16, Appl	196	31	53.4	15	9	US-10-530-061-1115	Sequence 1745, Ap
124	33	56.9	361	9	US-10-523-503-70	Sequence 70, Appl	197	31	53.4	15	9	US-10-530-061-1144	Sequence 1144, Ap
125	33	56.9	418	11	US-11-096-568A-23586	Sequence 23586, A	198	31	53.4	20	11	US-11-106-415-19	Sequence 19, Appl
126	33	56.9	420	9	US-10-821-234-1282	Sequence 1282, Ap	199	31	53.4	20	11	US-11-233-256-19	Sequence 19, Appl
127	33	56.9	440	9	US-11-227-543-17	Sequence 17, Appl	200	31	53.4	27	11	US-11-264-096-957	Sequence 957, App
128	33	56.9	470	11	US-11-096-568A-18940	Sequence 18940, A	201	31	53.4	27	11	US-11-264-096-959	Sequence 959, App
129	33	56.9	477	11	US-11-096-568A-9174	Sequence 9174, Ap	202	31	53.4	35	11	US-11-121-301-20	Sequence 20, Appl
130	33	56.9	477	11	US-11-096-568A-18939	Sequence 18939, A	203	31	53.4	35	11	US-11-004-389-1121	Sequence 1121, Ap
131	33	56.9	486	11	US-11-188-298-3455	Sequence 3455, Ap	204	31	53.4	47	9	US-10-916-827-26	Sequence 26, Appl
132	33	56.9	486	11	US-11-188-298-6889	Sequence 6889, Ap	205	31	53.4	93	9	US-10-467-657-1958	Sequence 1998, Ap
133	33	56.9	486	11	US-11-188-298-6889	Sequence 132, App	206	31	53.4	95	11	US-11-096-568A-16514	Sequence 16514, A
134	33	56.9	492	9	US-10-506-454-132	Sequence 8567, Ap	207	31	53.4	97	11	US-11-096-568A-16513	Sequence 16513, A
135	33	56.9	496	11	US-11-188-298-8567	Sequence 8567, Ap	208	31	53.4	98	8	US-10-511-814-8	Sequence 8, Appl1
136	33	56.9	515	11	US-11-096-568A-9173	Sequence 9173, Ap	209	31	53.4	98	8	US-10-511-814-11	Sequence 11, Appl
137	33	56.9	515	11	US-11-096-568A-9176	Sequence 9176, Ap	210	31	53.4	98	9	US-10-530-253-14	Sequence 14, Appl
138	33	56.9	517	11	US-11-072-512-2679	Sequence 2679, Ap	211	31	53.4	98	9	US-10-530-253-36	Sequence 36, Appl
139	33	56.9	593	9	US-10-877-346-46	Sequence 46, Appl	212	31	53.4	98	11	US-11-179-478-4	Sequence 4, Appl1
140	33	56.9	620	11	US-11-087-099-9200	Sequence 9200, Ap	213	31	53.4	102	11	US-11-096-568A-24941	Sequence 24941, A
141	33	56.9	1004	11	US-11-096-568A-27596	Sequence 27596, A	214	31	53.4	105	9	US-10-530-253-35	Sequence 35, Appl
142	33	56.9	1006	11	US-11-096-568A-27595	Sequence 27595, A	215	31	53.4	106	11	US-11-045-004-210	Sequence 210, App
143	33	56.9	1031	11	US-11-096-568A-27594	Sequence 27594, A	216	31	53.4	107	11	US-11-096-666-10612	Sequence 10612, A
144	33	56.9	1051	9	US-10-304-639-15	Sequence 15, Appl	217	31	53.4	120	11	US-11-087-099-11925	Sequence 11925, A
145	33	56.9	1886	9	US-10-877-346-13	Sequence 13, Appl	218	31	53.4	120	11	US-11-079-463-5531	Sequence 5531, Ap
146	32	55.2	80	11	US-11-264-096-1916	Sequence 1916, Ap	219	31	53.4	127	11	US-11-096-568A-14555	Sequence 14555, A
147	32	55.2	103	9	US-10-506-454-1526	Sequence 1526, Ap	220	31	53.4	132	11	US-11-096-568A-517	Sequence 517, App
148	32	55.2	105	11	US-11-079-463-8396	Sequence 8396, Ap	221	31	53.4	137	11	US-11-072-512-3503	Sequence 3503, App
149	32	55.2	109	11	US-11-096-568A-3602	Sequence 3602, Ap	222	31	53.4	138	11	US-11-096-568A-516	Sequence 516, App
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151	32	55.2	115	11	US-11-264-096-1614	Sequence 1614, Ap	224	31	53.4	143	11	US-11-096-568A-11551	Sequence 11551, A
152	32	55.2	116	11	US-11-096-568A-5601	Sequence 5601, Ap	225	31	53.4	149	11	US-11-096-568A-4159	Sequence 4159, Ap
153	32	55.2	143	11	US-11-094-519A-52	Sequence 52, Appl	226	31	53.4	150	9	US-10-467-657-1204	Sequence 1204, Ap
154	32	55.2	164	11	US-11-094-519A-30	Sequence 30, Appl	227	31	53.4	158	11	US-11-096-568A-1554	Sequence 2733, Ap
155	32	55.2	188	11	US-11-096-568A-30732	Sequence 30732, A	228	31	53.4	159	11	US-11-072-512-7733	Sequence 7733, A
156	32	55.2	189	11	US-11-096-568A-13880	Sequence 13880, A	229	31	53.4	159	11	US-11-153-071-8	Sequence 8, Appl1
157	32	55.2	192	11	US-11-096-568A-30731	Sequence 30731, A	230	31	53.4	161	11	US-11-087-099-6514	Sequence 6514, Ap
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161	32	55.2	207	11	US-11-186-284-205	Sequence 205, App	234	31	53.4	168	11	US-11-096-568A-33516	Sequence 33516, A
162	32	55.2	211	11	US-11-096-568A-30728	Sequence 30728, A	235	31	53.4	172	11	US-11-090-916-15	Sequence 15, Appl
163	32	55.2	215	11	US-11-096-568A-30727	Sequence 30727, A	236	31	53.4	172	11	US-11-156-516-45	Sequence 45, Appl
164	32	55.2	217	11	US-11-096-568A-2340	Sequence 2340, Ap	237	31	53.4	174	11	US-11-096-568A-16512	Sequence 16512, A
165	32	55.2	220	11	US-11-096-568A-13879	Sequence 13879, A	238	31	53.4	178	11	US-11-096-568A-3956	Sequence 3956, Ap
166	32	55.2	221	11	US-11-096-568A-2339	Sequence 2339, Ap	239	31	53.4	178	11	US-11-096-568A-3956	Sequence 3956, Ap
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254	31	53.4	212	9	US-10-948-097-5	Sequence 5, Appl1
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259	31	53.4	227	11	US-11-156-516-37	Sequence 37, Appl
260	31	53.4	227	11	US-11-156-516-46	Sequence 46, Appl
261	31	53.4	227	11	US-11-156-516-47	Sequence 47, Appl
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269	31	53.4	239	11	US-11-096-568A-130	Sequence 130, App
270	31	53.4	239	11	US-11-096-568A-131	Sequence 131, App
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274	31	53.4	248	9	US-10-530-253-3	Sequence 3, Appl1
275	31	53.4	248	9	US-10-530-253-7	Sequence 7, Appl1
276	31	53.4	248	9	US-10-530-253-9	Sequence 9, Appl1
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285	31	53.4	258	11	US-11-096-568A-129	Sequence 129, App
286	31	53.4	258	11	US-11-253-151-9	Sequence 9, Appl1
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298	31	53.4	271	11	US-11-172-740-1879	Sequence 1879, Ap
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307	31	53.4	306	11	US-11-096-568A-30904	Sequence 30904, A
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312	31	53.4	336	11	US-11-087-099-3797	Sequence 3797, Ap
313	31	53.4	336	11	US-11-087-099-5650	Sequence 5650, Ap
314	31	53.4	336	11	US-11-087-099-9495	Sequence 9495, Ap
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316	31	53.4	338	11	US-11-087-099-9387	Sequence 9387, Ap
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318	31	53.4	344	9	US-10-195-883-582	Sequence 583, App
319	31	53.4	344	9	US-10-195-888-582	Sequence 582, App
320	31	53.4	344	9	US-10-195-889-582	Sequence 582, App
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322	31	53.4	358	11	US-11-096-568A-15317	Sequence 15317, A
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329	31	53.4	406	11	US-11-079-463-7017	Sequence 7017, Ap
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333	31	53.4	446	11	US-11-188-298-9206	Sequence 9206, Ap
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335	31	53.4	468	11	US-11-253-151-35	Sequence 35, Appl
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342	31	53.4	518	11	US-11-188-298-16472	Sequence 16472, A
343	31	53.4	536	11	US-11-079-463-8270	Sequence 8270, Ap
344	31	53.4	562	11	US-11-072-512-3214	Sequence 3214, Ap
345	31	53.4	581	11	US-11-236-196-7	Sequence 7, Appl1
346	31	53.4	585	9	US-10-745-586-61	Sequence 61, Appl
347	31	53.4	610	9	US-10-455-772-1094	Sequence 1094, Ap
348	31	53.4	630	11	US-11-236-198-5	Sequence 5, Appl1
349	31	53.4	661	11	US-11-094-519A-29	Sequence 29, Appl
350	31	53.4	669	11	US-11-236-198-3	Sequence 3, Appl1
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352	31	53.4	821	9	US-10-506-454-1437	Sequence 1437, App
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354	31	53.4	909	9	US-11-124-367A-386	Sequence 386, App
355	31	53.4	1047	11	US-11-124-367A-386	Sequence 387, App
356	31	53.4	1068	11	US-11-124-367A-387	Sequence 387, App
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389	30	51.7	159	11	US-11-139-749-3	Sequence 3, Appl1	462	30	51.7	448	11	US-11-119-569-4	Sequence 4, Appl1
390	30	51.7	159	11	US-11-184-451-3	Sequence 3, Appl1	463	30	51.7	450	11	US-11-119-569-21	Sequence 21, Appl1
391	30	51.7	155	11	US-11-096-568A-1182	Sequence 1182, Ap	464	30	51.7	459	10	US-11-302-678-11	Sequence 11, Appl1
392	30	51.7	166	9	US-10-467-657-1880	Sequence 1880, Ap	465	30	51.7	468	11	US-11-054-385-12	Sequence 12, Appl1
393	30	51.7	167	11	US-11-096-568A-31746	Sequence 31746, A	466	30	51.7	469	9	US-10-516-635-8	Sequence 8, Appl1
394	30	51.7	187	11	US-11-077-619-4	Sequence 4, Appl1	467	30	51.7	469	9	US-10-784-004-784	Sequence 784, Appl1
395	30	51.7	187	11	US-11-077-619-86	Sequence 86, Appl1	468	30	51.7	469	9	US-10-784-004-1112	Sequence 1112, Ap
396	30	51.7	190	11	US-11-188-298-17686	Sequence 17686, A	469	30	51.7	471	11	US-11-188-298-5636	Sequence 5636, Ap
397	30	51.7	202	11	US-11-096-568A-16637	Sequence 16637, A	470	30	51.7	473	11	US-10-509-464-5	Sequence 5, Appl1
398	30	51.7	206	11	US-11-096-568A-26510	Sequence 26510, A	471	30	51.7	473	9	US-10-509-464-6	Sequence 6, Appl1
399	30	51.7	218	11	US-11-072-512-2205	Sequence 2205, Ap	472	30	51.7	479	9	US-10-516-635-10	Sequence 10, Appl1
400	30	51.7	232	11	US-11-072-512-2156	Sequence 2156, Ap	473	30	51.7	480	9	US-10-516-635-12	Sequence 12, Appl1
401	30	51.7	233	11	US-11-096-568A-16636	Sequence 16636, A	474	30	51.7	480	9	US-10-516-635-14	Sequence 14, Appl1
402	30	51.7	239	11	US-11-096-568A-15288	Sequence 15288, A	475	30	51.7	480	9	US-10-784-004-465	Sequence 465, Appl1
403	30	51.7	246	11	US-11-096-568A-26509	Sequence 26509, A	476	30	51.7	480	9	US-10-784-004-465	Sequence 465, Appl1
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405	30	51.7	253	11	US-11-096-568A-31745	Sequence 31745, A	478	30	51.7	485	11	US-11-188-298-15333	Sequence 15333, A
406	30	51.7	253	11	US-11-172-740-1874	Sequence 1874, Ap	479	30	51.7	486	11	US-11-188-298-16022	Sequence 16022, A
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408	30	51.7	262	11	US-11-172-740-1875	Sequence 1875, Ap	481	30	51.7	491	11	US-11-188-298-630	Sequence 630, Appl1
409	30	51.7	263	11	US-11-188-298-351	Sequence 351, Appl1	482	30	51.7	492	9	US-10-148-606-1	Sequence 5, Appl1
410	30	51.7	263	11	US-11-188-298-9667	Sequence 9667, Ap	483	30	51.7	497	11	US-11-188-298-6223	Sequence 6223, Ap
411	30	51.7	269	11	US-11-000-463-403	Sequence 403, Appl1	484	30	51.7	503	11	US-11-188-298-10771	Sequence 10771, A
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414	30	51.7	290	11	US-11-096-568A-15287	Sequence 15287, A	487	30	51.7	539	11	US-11-188-298-5486	Sequence 5486, Ap
415	30	51.7	299	11	US-11-188-298-9766	Sequence 9766, Ap	488	30	51.7	611	11	US-11-188-298-5827	Sequence 5827, Ap
416	30	51.7	299	11	US-11-188-298-10229	Sequence 10229, A	489	30	51.7	685	9	US-10-506-454-321	Sequence 321, Appl1
417	30	51.7	299	11	US-11-188-298-10430	Sequence 10430, A	490	30	51.7	690	11	US-11-052-5544A-99	Sequence 99, Appl1
418	30	51.7	300	11	US-11-096-568A-26508	Sequence 26508, A	491	30	51.7	698	9	US-10-995-561-939	Sequence 99, Appl1
419	30	51.7	300	11	US-11-188-298-2533	Sequence 2533, Ap	492	30	51.7	720	11	US-11-121-438-18	Sequence 18, Appl1
420	30	51.7	300	11	US-11-188-298-8573	Sequence 8573, Ap	493	30	51.7	725	9	US-10-995-561-938	Sequence 938, Appl1
421	30	51.7	300	11	US-11-188-298-9183	Sequence 9183, Ap	494	30	51.7	768	11	US-11-096-568A-30100	Sequence 30100, A
422	30	51.7	302	11	US-11-188-298-22472	Sequence 22472, A	495	30	51.7	806	11	US-11-096-568A-28479	Sequence 28479, A
423	30	51.7	302	11	US-11-112-882-2	Sequence 2, Appl1	496	30	51.7	806	11	US-11-096-568A-30099	Sequence 30099, A
424	30	51.7	302	11	US-11-188-298-2373	Sequence 2373, Ap	497	30	51.7	818	11	US-11-096-568A-28478	Sequence 28478, A
425	30	51.7	302	11	US-11-188-298-13473	Sequence 13473, A	498	30	51.7	818	11	US-11-096-568A-30098	Sequence 30098, A
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427	30	51.7	305	9	US-10-506-454-572	Sequence 572, Appl1	500	30	51.7	842	11	US-11-188-298-8202	Sequence 8202, Ap
428	30	51.7	306	11	US-11-087-099-5439	Sequence 5439, Ap	501	30	51.7	842	11	US-11-188-298-8227	Sequence 8227, Ap
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430	30	51.7	306	11	US-11-087-099-9172	Sequence 9172, Ap	503	30	51.7	956	11	US-11-045-004-26683	Sequence 26683, Ap
431	30	51.7	306	11	US-11-188-298-19718	Sequence 19718, A	504	30	51.7	1048	9	US-10-501-035-229	Sequence 229, Appl1
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433	30	51.7	309	11	US-11-053-822-1064	Sequence 1064, Ap	506	30	51.7	1240	9	US-10-506-454-1648	Sequence 1648, Ap
434	30	51.7	321	11	US-11-098-686-10960	Sequence 10960, A	507	30	51.7	1539	8	US-10-511-937-2545	Sequence 2545, Ap
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437	30	51.7	341	11	US-11-087-099-9901	Sequence 9901, Ap	510	30	51.7	1871	9	US-10-877-346-42	Sequence 42, Appl1
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442	30	51.7	359	11	US-11-096-568A-17048	Sequence 17048, A	515	29.5	50.9	463	11	US-11-199-821-9	Sequence 9, Appl1
443	30	51.7	361	11	US-11-096-568A-5832	Sequence 5832, Ap	516	29	50.0	7	11	US-11-264-096-1080	Sequence 1080, Ap
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445	30	51.7	363	8	US-10-511-937-2994	Sequence 2994, Ap	518	29	50.0	31	11	US-11-144-947-679	Sequence 679, Appl1
446	30	51.7	368	11	US-11-045-004-702	Sequence 702, Appl1	519	29	50.0	32	11	US-11-144-947-683	Sequence 683, Appl1
447	30	51.7	370	9	US-10-467-657-7954	Sequence 7954, Ap	520	29	50.0	41	11	US-11-144-947-744	Sequence 744, Appl1
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449	30	51.7	396	9	US-10-467-657-280	Sequence 280, Appl1	522	29	50.0	47	9	US-10-877-346-81	Sequence 81, Appl1
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453	30	51.7	433	9	US-10-506-454-1525	Sequence 1525, Ap	526	29	50.0	67	11	US-11-004-399-3406	Sequence 3406, Appl1
454	30	51.7	434	9	US-10-506-454-259	Sequence 259, Appl1	527	29	50.0	68	11	US-11-096-568A-8339	Sequence 8339, Appl1
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458	30	51.7	444	9	US-10-467-657-362	Sequence 362, Appl1	531	29	50.0	84	9	US-10-644-807-312	Sequence 312, Appl1
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535	29	50.0	106	11	US-11-087-099-795	Sequence 795, App	608	29	50.0	709	11	US-11-188-298-14681	Sequence 14681, A
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537	29	50.0	154	9	US-10-537-002-62	Sequence 62, Appl	610	29	50.0	746	11	US-11-024-959-346	Sequence 346, App
538	29	50.0	155	11	US-11-207-078-237	Sequence 227, App	611	29	50.0	747	11	US-10-821-234-1662	Sequence 1662, App
539	29	50.0	159	11	US-11-072-512-3218	Sequence 3218, App	612	29	50.0	763	11	US-11-045-004-2734	Sequence 2734, App
540	29	50.0	164	11	US-11-045-004-2113	Sequence 2113, App	613	29	50.0	764	11	US-11-072-512-2379	Sequence 2379, App
541	29	50.0	178	11	US-11-072-512-3886	Sequence 3886, App	614	29	50.0	799	8	US-10-505-928-716	Sequence 716, App
542	29	50.0	182	9	US-10-506-454-891	Sequence 891, App	615	29	50.0	802	11	US-11-188-298-5674	Sequence 5674, App
543	29	50.0	200	11	US-11-079-463-7040	Sequence 7040, App	616	29	50.0	808	11	US-11-188-298-20820	Sequence 20820, A
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546	29	50.0	214	11	US-11-096-568A-19787	Sequence 19787, A	619	29	50.0	897	9	US-10-467-657-8514	Sequence 8514, App
547	29	50.0	225	11	US-11-172-740-2120	Sequence 2120, App	620	29	50.0	1007	9	US-10-467-657-8514	Sequence 187, App
548	29	50.0	225	11	US-11-172-740-2121	Sequence 2121, App	621	29	50.0	1031	11	US-11-121-438-4	Sequence 4, Appl1
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551	29	50.0	225	11	US-11-172-740-2122	Sequence 2122, App	624	29	50.0	1169	9	US-10-995-561-609	Sequence 609, App
552	29	50.0	227	11	US-11-172-740-2119	Sequence 2119, App	625	29	50.0	1169	11	US-11-124-368A-228	Sequence 228, App
553	29	50.0	227	11	US-11-172-740-2119	Sequence 2119, App	626	29	50.0	1215	11	US-11-045-004-255	Sequence 255, App
554	29	50.0	233	11	US-11-207-078-16	Sequence 2358, App	627	29	50.0	1268	11	US-11-188-298-12889	Sequence 12889, A
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561	29	50.0	276	11	US-11-188-298-14845	Sequence 14845, A	634	29	50.0	2209	10	US-11-087-099-2391	Sequence 2391, App
562	29	50.0	278	11	US-11-072-512-2126	Sequence 2126, App	635	29	50.0	2479	11	US-11-087-099-2391	Sequence 769, App
563	29	50.0	280	11	US-11-079-463-8374	Sequence 8374, App	636	29	50.0	2491	9	US-10-995-561-769	Sequence 10313, A
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565	29	50.0	297	11	US-11-079-463-5836	Sequence 5836, App	638	28.5	49.1	423	11	US-11-143-980-41	Sequence 41, Appl
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571	29	50.0	355	11	US-11-188-298-7439	Sequence 7439, App	644	28	48.3	17	11	US-11-129-741-3880	Sequence 1958, App
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573	29	50.0	363	11	US-11-072-512-3183	Sequence 3183, App	646	28	48.3	23	11	US-11-004-399-1435	Sequence 1435, App
574	29	50.0	377	11	US-11-096-568A-12191	Sequence 12191, A	647	28	48.3	26	11	US-11-119-293-24	Sequence 24, Appl
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576	29	50.0	400	11	US-11-096-568A-12190	Sequence 12190, A	649	28	48.3	34	11	US-11-004-399-2409	Sequence 2409, App
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579	29	50.0	425	11	US-11-096-568A-12787	Sequence 12787, A	652	28	48.3	65	9	US-10-948-571-74	Sequence 238, App
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583	29	50.0	462	11	US-11-096-568A-12786	Sequence 10375, A	656	28	48.3	78	9	US-10-475-075-265	Sequence 265, App
584	29	50.0	465	11	US-11-169-041-173	Sequence 12786, A	657	28	48.3	80	11	US-11-079-463-10314	Sequence 298, App
585	29	50.0	465	11	US-11-087-099-8665	Sequence 173, App	658	28	48.3	84	11	US-11-087-099-1913	Sequence 10314, A
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588	29	50.0	471	9	US-10-506-454-616	Sequence 1731, App	661	28	48.3	90	11	US-11-221-683-2	Sequence 125, App
589	29	50.0	484	11	US-11-188-298-18778	Sequence 18778, A	662	28	48.3	90	11	US-11-221-683-7	Sequence 2, Appl1
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592	29	50.0	523	11	US-11-188-298-664	Sequence 664, App	665	28	48.3	90	11	US-11-221-683-16	Sequence 15, Appl
593	29	50.0	548	11	US-11-096-568A-402	Sequence 664, App	666	28	48.3	90	11	US-11-221-683-17	Sequence 16, Appl
594	29	50.0	548	11	US-11-188-298-15431	Sequence 15431, A	667	28	48.3	90	11	US-11-221-683-18	Sequence 17, Appl
595	29	50.0	552	11	US-11-072-512-3426	Sequence 3426, App	668	28	48.3	90	11	US-11-221-683-19	Sequence 18, Appl
596	29	50.0	567	9	US-10-718-264-20	Sequence 3426, App	669	28	48.3	90	11	US-11-221-683-20	Sequence 19, Appl
597	29	50.0	567	9	US-10-718-264-20	Sequence 20, Appl	670	28	48.3	90	11	US-11-221-683-21	Sequence 20, Appl
598	29	50.0	577	11	US-11-176-667-20	Sequence 20, Appl	671	28	48.3	90	11	US-11-221-683-22	Sequence 21, Appl
599	29	50.0	577	11	US-11-264-096-1782	Sequence 1782, App	672	28	48.3	90	11	US-11-221-683-22	Sequence 22, Appl
600	29	50.0	578	9	US-10-821-234-1039	Sequence 1039, App	673	28	48.3	94	11	US-11-115-922-221	Sequence 221, App
601	29	50.0	615	11	US-11-096-568A-401	Sequence 401, App	674	28	48.3	94	11	US-11-225-686-13	Sequence 13, Appl
602	29	50.0	615	11	US-11-096-568A-401	Sequence 403, App	675	28	48.3	94	11	US-11-202-009-13	Sequence 13, Appl
603	29	50.0	631	11	US-11-188-298-3431	Sequence 3431, App	676	28	48.3	94	11	US-11-031-206-44	Sequence 44, Appl
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680	28	48.3	98	11	US-11-145-703-31	Sequence 31, Appl	753	28	48.3	251	11	US-11-096-568A-1259	Sequence 1259, Ap
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682	28	48.3	99	9	US-10-530-253-30	Sequence 15, Appl	755	28	48.3	255	11	US-11-096-568A-1256	Sequence 1256, A
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684	28	48.3	100	11	US-11-264-096-1332	Sequence 1332, Ap	757	28	48.3	255	11	US-11-156-084-161	Sequence 161, App
685	28	48.3	102	11	US-11-145-703-29	Sequence 29, Appl	758	28	48.3	259	11	US-10-821-234-1561	Sequence 8294, Ap
686	28	48.3	104	11	US-11-087-099-11956	Sequence 11956, A	759	28	48.3	259	11	US-11-096-568A-11154	Sequence 1561, Ap
687	28	48.3	106	11	US-11-145-703-35	Sequence 35, Appl	760	28	48.3	263	11	US-11-079-463-8294	Sequence 5294, Ap
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694	28	48.3	118	11	US-11-172-740-2480	Sequence 2480, Ap	767	28	48.3	267	11	US-11-188-288-468	Sequence 468, App
695	28	48.3	122	11	US-11-264-096-1887	Sequence 1887, Ap	768	28	48.3	268	11	US-11-096-568A-22646	Sequence 22646, A
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992 27.5 47.4 487 11 US-11-096-568A-3105 Sequence 3105, Ap
993 27.5 47.4 664 11 US-11-096-568A-16770 Sequence 16770, A
994 27 46.6 6 9 US-11-058-926-4 Sequence 4, Appl
995 27 46.6 6 9 US-10-895-064-1209 Sequence 1209, Ap
996 27 46.6 6 11 US-11-129-741-1209 Sequence 1209, Ap
997 27 46.6 8 9 US-10-877-961B-104 Sequence 104, App
998 27 46.6 8 9 US-10-877-961B-136 Sequence 136, App
999 27 46.6 8 9 US-10-913-711B-49 Sequence 49, Appl
1000 27 46.6 10 9 US-10-895-064-239 Sequence 239, App
```

ALIGNMENTS

```
RESULT 1
US-10-530-061-655
; Sequence 655, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.033US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530, 061
; PRIOR FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 655
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-655
```

```
Query Match 100.0%; Score 58; DB 9; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.9e+05;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 LSFVCPWCA 9
| | | | |
Db 1 LSFVCPWCA 9
```

```
RESULT 2
US-10-530-061-310
; Sequence 310, Application US/10530061
```

```
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.033US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530, 061
; PRIOR FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 310
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-310
```

```
Query Match 100.0%; Score 58; DB 9; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.0029;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 LSFVCPWCA 9
| | | | |
Db 2 LSFVCPWCA 10
```

```
RESULT 3
US-10-530-253-27
; Sequence 27, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Cassetti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; PRIOR FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 27
; LENGTH: 105
; TYPE: PRT
; ORGANISM: Human papillomavirus type 18
US-10-530-253-27
```

```
Query Match 100.0%; Score 58; DB 9; Length 105;
Best Local Similarity 100.0%; Pred. No. 0.017;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 LSFVCPWCA 9
| | | | |
Db 94 LSFVCPWCA 102
```

```
RESULT 4
US-10-530-253-32
; Sequence 32, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Cassetti, Maria C.
; APPLICANT: Smith, Larry
```

```
APPLICANT: Jeffrey K. Pullen
APPLICANT: Susan P. McElhinney
TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
FILE REFERENCE: 00630/100M137-US2
CURRENT APPLICATION NUMBER: US/10/530,253
CURRENT FILING DATE: 2005-04-04
PRIOR APPLICATION NUMBER: PCT/US2003/031726
PRIOR FILING DATE: 2003-10-02
PRIOR APPLICATION NUMBER: US 60/415,929
PRIOR FILING DATE: 2002-10-03
NUMBER OF SEQ ID NOS: 65
SOFTWARE: PatentIn version 3.1
SEQ ID NO 32
LENGTH: 106
TYPE: PRT
ORGANISM: Human papillomavirus type 45
US-10-530-253-32
```

```
Query Match          100.0%; Score 58; DB 9; Length 106;
Best Local Similarity 100.0%; Pred. No. 0.017;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 LSFVCPWCA 9
Db 95 LSFVCPWCA 103
```

```
RESULT 5
US-10-530-253-38
Sequence 38, Application US/10530253
Publication No. US20060014926A1
GENERAL INFORMATION:
APPLICANT: Casaretti, Maria C.
APPLICANT: Smith, Larry
APPLICANT: Jeffrey K. Pullen
APPLICANT: Susan P. McElhinney
TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
FILE REFERENCE: 00630/100M137-US2
CURRENT APPLICATION NUMBER: US/10/530,253
CURRENT FILING DATE: 2005-04-04
PRIOR APPLICATION NUMBER: PCT/US2003/031726
PRIOR FILING DATE: 2003-10-02
PRIOR APPLICATION NUMBER: US 60/415,929
PRIOR FILING DATE: 2002-10-03
NUMBER OF SEQ ID NOS: 65
SOFTWARE: PatentIn version 3.1
SEQ ID NO 38
LENGTH: 110
TYPE: PRT
ORGANISM: Human papillomavirus type 68
US-10-530-253-38
```

```
Query Match          94.8%; Score 55; DB 9; Length 110;
Best Local Similarity 88.9%; Pred. No. 0.051;
Matches 8; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 LSFVCPWCA 9
Db 98 LNFVCPWCA 106
```

```
RESULT 6
US-10-530-061-674
Sequence 674, Application US/10530061
Publication No. US20060079453A1
GENERAL INFORMATION:
APPLICANT: SIDNEY, JOHN
APPLICANT: SOUTHWOOD, SCOTT
APPLICANT: SETTE, ALESSANDRO
TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
FILE REFERENCE: 2060.033US02/EKS/M-M
CURRENT APPLICATION NUMBER: US/10/530,061
CURRENT FILING DATE: 2005-04-04
```

```
PRIOR APPLICATION NUMBER: PCT/US03/31308
PRIOR FILING DATE: 2003-10-03
PRIOR APPLICATION NUMBER: 60/416,207
PRIOR FILING DATE: 2002-10-03
PRIOR APPLICATION NUMBER: 60/417,269
PRIOR FILING DATE: 2002-10-08
NUMBER OF SEQ ID NOS: 2503
SOFTWARE: PatentIn version 3.3
SEQ ID NO 674
LENGTH: 9
TYPE: PRT
ORGANISM: Human papillomavirus
US-10-530-061-674
```

```
Query Match          93.1%; Score 54; DB 9; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.9e+05;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 LSFVCPWC 8
Db 1 LSFVCPWC 8
```

```
RESULT 7
US-10-530-061-309
Sequence 309, Application US/10530061
Publication No. US20060079453A1
GENERAL INFORMATION:
APPLICANT: SIDNEY, JOHN
APPLICANT: SOUTHWOOD, SCOTT
APPLICANT: SETTE, ALESSANDRO
TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
FILE REFERENCE: 2060.033US02/EKS/M-M
CURRENT APPLICATION NUMBER: US/10/530,061
CURRENT FILING DATE: 2005-04-04
PRIOR APPLICATION NUMBER: PCT/US03/31308
PRIOR FILING DATE: 2003-10-03
PRIOR APPLICATION NUMBER: 60/416,207
PRIOR FILING DATE: 2002-10-03
PRIOR APPLICATION NUMBER: 60/417,269
PRIOR FILING DATE: 2002-10-08
NUMBER OF SEQ ID NOS: 2503
SOFTWARE: PatentIn version 3.3
SEQ ID NO 309
LENGTH: 10
TYPE: PRT
ORGANISM: Human papillomavirus
US-10-530-061-309
```

```
Query Match          93.1%; Score 54; DB 9; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.012;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 LSFVCPWC 8
Db 2 LSFVCPWC 9
```

```
RESULT 8
US-10-530-253-31
Sequence 31, Application US/10530253
Publication No. US20060014926A1
GENERAL INFORMATION:
APPLICANT: Casaretti, Maria C.
APPLICANT: Smith, Larry
APPLICANT: Jeffrey K. Pullen
APPLICANT: Susan P. McElhinney
TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
FILE REFERENCE: 00630/100M137-US2
CURRENT APPLICATION NUMBER: US/10/530,253
CURRENT FILING DATE: 2005-04-04
PRIOR APPLICATION NUMBER: PCT/US2003/031726
PRIOR FILING DATE: 2003-10-02
```

; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 31
; LENGTH: 109
; TYPE: PRT
; ORGANISM: Human papillomavirus type 39
US-10-530-253-31

Query Match 93.1%; Score 54; DB 9; Length 109;
Best Local Similarity 88.9%; Pred. No. 0.072;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 LSFVCPWCA 9
| | | | |
Db 97 LSFVCPWCA 105

RESULT 9
US-10-530-061-1719
; Sequence 1719, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.033US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; PRIOR FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1719
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-1719

Query Match 77.6%; Score 45; DB 9; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.4;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 LSFVCPW 7
| | | | |
Db 9 LSFVCPW 15

RESULT 10
US-10-530-061-1730
; Sequence 1730, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.033US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; PRIOR FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503

; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1730
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-1730

Query Match 77.6%; Score 45; DB 9; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.4;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 LSFVCPW 7
| | | | |
Db 9 LSFVCPW 15

RESULT 11
US-10-530-253-37
; Sequence 37, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Cassecci, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/1004137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; PRIOR FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 37
; LENGTH: 107
; TYPE: PRT
; ORGANISM: Human papillomavirus type 59
US-10-530-253-37

Query Match 77.6%; Score 45; DB 9; Length 107;
Best Local Similarity 88.9%; Pred. No. 1.8;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 LSFVCPWCA 9
| | | | |
Db 96 LSFVCPWCA 104

RESULT 12
US-11-122-396-29
; Sequence 29, Application US/11122396
; Publication No. US20060057698A1
; GENERAL INFORMATION:
; APPLICANT: Sherman, David
; APPLICANT: Magarvey, Nathan
; APPLICANT: Beck, Zachary Q
; TITLE OF INVENTION: Nucleic Acids and Polypeptides Involved
; FILE REFERENCE: 09531/145001
; CURRENT APPLICATION NUMBER: US/11/122,396
; PRIOR FILING DATE: 2005-05-05
; PRIOR APPLICATION NUMBER: 60/568,334
; PRIOR FILING DATE: 2004-05-05
; NUMBER OF SEQ ID NOS: 41
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 29
; LENGTH: 214
; TYPE: PRT
; ORGANISM: Nostoc species
US-11-122-396-29

Query Match 69.0%; Score 40; DB 11; Length 214;
Best Local Similarity 100.0%; Pred. No. 18;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 4 VCPWC 8
DB 10 VCPWC 14

RESULT 13
US-10-530-253-33
Sequence 33, Application US/10530253
Publication No. US20060014926A1
GENERAL INFORMATION:
APPLICANT: Cassecci, Maria C.
APPLICANT: Smith, Larry
APPLICANT: Jeffrey K. Pullen
APPLICANT: Susan P. McElhinney
TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
FILE REFERENCE: 00630/100M137-US2
CURRENT APPLICATION NUMBER: US/10/530,253
CURRENT FILING DATE: 2005-04-04
PRIOR APPLICATION NUMBER: PCT/US2003/031726
PRIOR FILING DATE: 2003-10-02
PRIOR APPLICATION NUMBER: US 60/415,929
PRIOR FILING DATE: 2002-10-03
NUMBER OF SEQ ID NOS: 65
SOFTWARE: PatentIn version 3.1
SEQ ID NO 33
LENGTH: 101
TYPE: PRT
ORGANISM: Human papillomavirus type 51
US-10-530-253-33

Query Match 67.2%; Score 39; DB 9; Length 101;
Best Local Similarity 77.8%; Pred. No. 14;
Matches 7; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 LSFVCPMCA 9
DB 91 LSLVCPCCA 99

RESULT 14
US-11-172-740-2123
Sequence 2123, Application US/11172740
Publication No. US20060057724A1
GENERAL INFORMATION:
APPLICANT: MASCIA, Peter
APPLICANT: ALEXANDROV, Nikolai
APPLICANT: BROVER, Vyacheslav
TITLE OF INVENTION: NUCLEOTIDE SEQUENCES AND POLYPEPTIDES ENCODED THEREBY USEFUL FOR
FILE REFERENCE: 2750-1602PUS2
CURRENT APPLICATION NUMBER: US/11/172,740
CURRENT FILING DATE: 2005-06-30
PRIOR APPLICATION NUMBER: 60/583,621
PRIOR FILING DATE: 2004-06-30
PRIOR APPLICATION NUMBER: 60/584,829
PRIOR FILING DATE: 2004-06-30
PRIOR APPLICATION NUMBER: 60/584,800
PRIOR FILING DATE: 2004-06-30
NUMBER OF SEQ ID NOS: 2523
SEQ ID NO 2123
LENGTH: 227
TYPE: PRT
ORGANISM: Glycine max
FEATURE:
NAME/KEY: misc_feature
LOCATION: (1)..(227)
OTHER INFORMATION: Ceres CLONE ID no. 581207
FEATURE:
NAME/KEY: misc_feature

LOCATION:
OTHER INFORMATION: Utility: Useful for making plants sterile and for genetic confinen
US-11-172-740-2123

Query Match 65.5%; Score 38; DB 11; Length 227;
Best Local Similarity 61.5%; Pred. No. 37;
Matches 8; Conservative 0; Mismatches 1; Indels 4; Gaps 1;

QY 1 LSFVCP----MCA 9
DB 50 LSFVCDVADGWCA 62

RESULT 15
US-11-172-740-2362
Sequence 2362, Application US/11172740
Publication No. US20060057724A1
GENERAL INFORMATION:
APPLICANT: MASCIA, Peter
APPLICANT: ALEXANDROV, Nikolai
APPLICANT: BROVER, Vyacheslav
TITLE OF INVENTION: NUCLEOTIDE SEQUENCES AND POLYPEPTIDES ENCODED THEREBY USEFUL FOR
FILE REFERENCE: 2750-1602PUS2
CURRENT APPLICATION NUMBER: US/11/172,740
CURRENT FILING DATE: 2005-06-30
PRIOR APPLICATION NUMBER: 60/583,621
PRIOR FILING DATE: 2004-06-30
PRIOR APPLICATION NUMBER: 60/584,829
PRIOR FILING DATE: 2004-06-30
PRIOR APPLICATION NUMBER: 60/584,800
PRIOR FILING DATE: 2004-06-30
NUMBER OF SEQ ID NOS: 2523
SEQ ID NO 2362
LENGTH: 227
TYPE: PRT
ORGANISM: Glycine max
FEATURE:
NAME/KEY: misc_feature
LOCATION: (1)..(227)
OTHER INFORMATION: Ceres CLONE ID no. 581207
FEATURE:
NAME/KEY: misc_feature
LOCATION:
OTHER INFORMATION: Utility: Useful for making smaller plants
US-11-172-740-2362

Query Match 65.5%; Score 38; DB 11; Length 227;
Best Local Similarity 61.5%; Pred. No. 37;
Matches 8; Conservative 0; Mismatches 1; Indels 4; Gaps 1;

QY 1 LSFVCP----MCA 9
DB 50 LSFVCDVADGWCA 62

RESULT 16
US-11-098-686-11423
Sequence 11423, Application US/11098686
Publication No. US20060024696A1
GENERAL INFORMATION:
APPLICANT: Kapur, Vivek and Gebhart, Connie J.
TITLE OF INVENTION: NUCLEIC ACID AND POLYPEPTIDE SEQUENCES
FROM LAWSONIA INTRACELLULARIS AND METHODS OF USING
FILE REFERENCE: 09531-128001
CURRENT APPLICATION NUMBER: US/11/098,686
CURRENT FILING DATE: 2005-04-04
PRIOR APPLICATION NUMBER: PCT/US03/31318
PRIOR FILING DATE: 2003-10-01
PRIOR APPLICATION NUMBER: US 60/416,395
PRIOR FILING DATE: 2002-10-04
NUMBER OF SEQ ID NOS: 11433
SOFTWARE: FastSeq for Windows Version 4.0

SEQ ID NO 11423
LENGTH: 236
TYPE: PRT
ORGANISM: Lawsonia intracellularis
US-11-098-686-11423

Query Match 65.5%; Score 38; DB 11; Length 236;
Best Local Similarity 83.3%; Pred. No. 38;
Matches 5; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 3 FVCPWC 8
DB 65 FVCPWC 70

RESULT 17
US-11-174-341-171
; Sequence 171, Application US/11174341
; Publication No. US20060031967A1
; GENERAL INFORMATION:
; APPLICANT: Slade, Ann
; APPLICANT: Madisen, Linda
; APPLICANT: Comai, Luca
; TITLE OF INVENTION: Compositions and Methods for Modulation of Plant Cell
; FILE REFERENCE: 6769*2
; CURRENT APPLICATION NUMBER: US/11/174,341
; CURRENT FILING DATE: 2005-07-01
; NUMBER OF SEQ ID NOS: 212
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 171
; LENGTH: 447
; TYPE: PRT
; ORGANISM: Plant
; NAME/KEY: misc feature
; LOCATION: (445)
; OTHER INFORMATION: Xaa is any amino acid
US-11-174-341-171

Query Match 65.5%; Score 38; DB 11; Length 447;
Best Local Similarity 62.5%; Pred. No. 62;
Matches 5; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 LSFVCPWC 8
DB 202 ISHGCPWC 209

RESULT 18
US-11-174-341-159
; Sequence 159, Application US/11174341
; Publication No. US20060031967A1
; GENERAL INFORMATION:
; APPLICANT: Slade, Ann
; APPLICANT: Madisen, Linda
; APPLICANT: Comai, Luca
; TITLE OF INVENTION: Compositions and Methods for Modulation of Plant Cell
; FILE REFERENCE: 6769*2
; CURRENT APPLICATION NUMBER: US/11/174,341
; CURRENT FILING DATE: 2005-07-01
; NUMBER OF SEQ ID NOS: 212
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 159
; LENGTH: 454
; TYPE: PRT
; ORGANISM: Plant
; NAME/KEY: MISC FEATURE
; LOCATION: (444)
; OTHER INFORMATION: Xaa = any amino acid
US-11-174-341-159

Query Match 65.5%; Score 38; DB 11; Length 454;
Best Local Similarity 62.5%; Pred. No. 63;
Matches 5; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 LSFVCPWC 8
DB 202 ISHGCPWC 209

RESULT 19
US-11-174-341-174
; Sequence 174, Application US/11174341
; Publication No. US20060031967A1
; GENERAL INFORMATION:
; APPLICANT: Slade, Ann
; APPLICANT: Madisen, Linda
; APPLICANT: Comai, Luca
; TITLE OF INVENTION: Compositions and Methods for Modulation of Plant Cell
; FILE REFERENCE: 6769*2
; CURRENT APPLICATION NUMBER: US/11/174,341
; CURRENT FILING DATE: 2005-07-01
; NUMBER OF SEQ ID NOS: 212
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 174
; LENGTH: 845
; TYPE: PRT
; ORGANISM: Plant
US-11-174-341-174

Query Match 65.5%; Score 38; DB 11; Length 845;
Best Local Similarity 62.5%; Pred. No. 1e+02; 2; Indels 0; Gaps 0;
Matches 5; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 LSFVCPWC 8
DB 202 ISHGCPWC 209

RESULT 20
US-11-195-459-14
; Sequence 14, Application US/11195459
; Publication No. US20050278803A1
; GENERAL INFORMATION:
; APPLICANT: Sewalt, Vincent
; APPLICANT: Hastings, Craig
; APPLICANT: Mealey, Robert
; APPLICANT: Hanke, Sabine
; APPLICANT: Jung, Rudolf
; APPLICANT: Everard, John
; APPLICANT: Allen, Stephen
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR ALTERING THE DISULFIDE STATUS OF PRO
; FILE REFERENCE: 5718-119 (035718/241421)
; CURRENT APPLICATION NUMBER: US/11/195,459
; CURRENT FILING DATE: 2005-08-02
; PRIOR APPLICATION NUMBER: US/10/005,429
; PRIOR FILING DATE: 2001-12-03
; PRIOR APPLICATION NUMBER: 60/250,703
; PRIOR FILING DATE: 2000-12-01
; NUMBER OF SEQ ID NOS: 25
; SOFTWARE: Patentin version 3.0
; SEQ ID NO 14
; LENGTH: 126
; TYPE: PRT
; ORGANISM: Zea mays
US-11-195-459-14

Query Match 63.8%; Score 37; DB 11; Length 126;
Best Local Similarity 44.4%; Pred. No. 34;
Matches 4; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

QY 1 LSFVCPWCA 9

Db 33 IDMAPWCS 41

RESULT 21

US-11-096-568A-33515
 ; Sequence 33515, Application US/11096568A
 ; Publication No. US20060048240A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Alexandrov, Nikolai et al.
 ; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
 ; TITLE OF INVENTION: Theryby
 ; FILE REFERENCE: 2750-1592PUS2
 ; CURRENT APPLICATION NUMBER: US/11/096,568A
 ; CURRENT FILING DATE: 2005-04-01
 ; NUMBER OF SEQ ID NOS: 34471
 ; SEQ ID NO 33515
 ; LENGTH: 211
 ; TYPE: PRT
 ; ORGANISM: Arabidopsis thaliana
 ; FEATURE:
 ; NAME/KEY: misc feature
 ; LOCATION: (1)-(211)
 ; OTHER INFORMATION: Ceres Seq. ID no. 13603307
 ; US-11-096-568A-33515

Query Match 63.8%; Score 37; DB 11; Length 211;

Best Local Similarity 71.4%; Pred. No. 51;
 Matches 5; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 3 FVCPWCA 9

Db 43 FMCPCFA 49

RESULT 22

US-11-096-568A-24007
 ; Sequence 24007, Application US/11096568A
 ; Publication No. US20060048240A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Alexandrov, Nikolai et al.
 ; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
 ; TITLE OF INVENTION: Theryby
 ; FILE REFERENCE: 2750-1592PUS2
 ; CURRENT APPLICATION NUMBER: US/11/096,568A
 ; CURRENT FILING DATE: 2005-04-01
 ; NUMBER OF SEQ ID NOS: 34471
 ; SEQ ID NO 24007
 ; LENGTH: 265
 ; TYPE: PRT
 ; ORGANISM: Zea mays subsp. mays
 ; FEATURE:
 ; NAME/KEY: misc feature
 ; LOCATION: (1)-(265)
 ; OTHER INFORMATION: Ceres Seq. ID no. 12417562
 ; US-11-096-568A-24007

Query Match 63.8%; Score 37; DB 11; Length 265;

Best Local Similarity 85.7%; Pred. No. 60;
 Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 LSPVCPW 7

Db 30 LSTVCPW 36

RESULT 23

US-11-096-568A-24006
 ; Sequence 24006, Application US/11096568A
 ; Publication No. US20060048240A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Alexandrov, Nikolai et al.
 ; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides

TITLE OF INVENTION: Theryby
 ; FILE REFERENCE: 2750-1592PUS2
 ; CURRENT APPLICATION NUMBER: US/11/096,568A
 ; CURRENT FILING DATE: 2005-04-01
 ; NUMBER OF SEQ ID NOS: 34471
 ; SEQ ID NO 24006
 ; LENGTH: 301
 ; TYPE: PRT
 ; ORGANISM: Zea mays subsp. mays
 ; FEATURE:
 ; NAME/KEY: misc feature
 ; LOCATION: (1)-(301)
 ; OTHER INFORMATION: Ceres Seq. ID no. 12417561
 ; US-11-096-568A-24006

Query Match 63.8%; Score 37; DB 11; Length 301;

Best Local Similarity 85.7%; Pred. No. 66;
 Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 LSPVCPW 7

Db 66 LSTVCPW 72

RESULT 24

US-11-188-298-20213
 ; Sequence 20213, Application US/11188298
 ; Publication No. US20060075522A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Abad, Mark S. et al.
 ; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
 ; FILE REFERENCE: 38-21(53452)B
 ; CURRENT APPLICATION NUMBER: US/11/188,298
 ; CURRENT FILING DATE: 2005-07-22
 ; PRIOR APPLICATION NUMBER: 60/592,978
 ; PRIOR FILING DATE: 2004-07-31
 ; NUMBER OF SEQ ID NOS: 22569
 ; SEQ ID NO 20213
 ; LENGTH: 107
 ; TYPE: PRT
 ; ORGANISM: Triticum aestivum
 ; US-11-188-298-20213

Query Match 62.1%; Score 36; DB 11; Length 107;
 Best Local Similarity 100.0%; Pred. No. 43;
 Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 5 CPWC 8

Db 97 CPWC 100

RESULT 25

US-11-000-463-392
 ; Sequence 392, Application US/11000463
 ; Publication No. US20050286423A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Tang, Y Tom
 ; APPLICANT: Liu, Chenghua
 ; APPLICANT: Asundi, Vinod
 ; APPLICANT: Chen, Rui-hong
 ; APPLICANT: Qian, Xiaohong B.
 ; APPLICANT: Wang, Zhiwei
 ; APPLICANT: Weinman, Tom
 ; APPLICANT: Zhang, Jie
 ; APPLICANT: Zhou, Ping
 ; APPLICANT: Cao, Yi-Cheng
 ; APPLICANT: Drmanac, Radjje T.
 ; TITLE OF INVENTION: Novel Nucleic Acids and Polypeptides
 ; FILE REFERENCE: 785CIP4CN
 ; CURRENT APPLICATION NUMBER: US/11/000,463
 ; CURRENT FILING DATE: 2004-11-29
 ; PRIOR APPLICATION NUMBER: 10/291,265

;; PRIOR FILING DATE: 2002-11-08
;; PRIOR APPLICATION NUMBER: PCT/US01/02623
;; PRIOR FILING DATE: 2001-01-25
;; PRIOR APPLICATION NUMBER: 09/922,279
;; PRIOR FILING DATE: 2001-08-03
;; PRIOR APPLICATION NUMBER: 09/491,404
;; PRIOR FILING DATE: 2000-01-25
;; PRIOR APPLICATION NUMBER: 09/617,746
;; PRIOR FILING DATE: 2000-07-17
;; PRIOR APPLICATION NUMBER: 09/631,451
;; PRIOR FILING DATE: 2000-08-03
;; PRIOR APPLICATION NUMBER: 09/633,870
;; PRIOR FILING DATE: 2000-09-15
;; NUMBER OF SEQ ID NOS: 944
;; SOFTWARE: FastSeq for Windows Version 3.0
;; SEQ ID NO 392
;; LENGTH: 123
;; TYPE: PRT
;; ORGANISM: Homo sapiens
US-11-000-463-392

Query Match 62.1%; Score 36; DB 11; Length 123;
Best Local Similarity 100.0%; Pred. No. 48;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 5 CPWC 8
DB 5 CPWC 8

RESULT 26

US-11-000-463-864
;; Sequence 864, Application US/11000463
;; Publication No. US20050266423A1
;; GENERAL INFORMATION:
;; APPLICANT: Tang, Y Tom
;; APPLICANT: Liu, Chenghua
;; APPLICANT: Agundt, Vinod
;; APPLICANT: Chen, Rui-hong
;; APPLICANT: Qian, Xiaohong B.
;; APPLICANT: Wang, Zhilwei
;; APPLICANT: Wehrman, Tom
;; APPLICANT: Zhang, Jie
;; APPLICANT: Zhou, Ping
;; APPLICANT: Cao, Yi-Cheng
;; APPLICANT: Drmanac, Radolje T.
;; TITLE OF INVENTION: Novel Nucleic Acids and Polypeptides
;; FILE REFERENCE: 785CIP4CN
;; CURRENT APPLICATION NUMBER: US/11/000,463
;; PRIOR FILING DATE: 2004-11-29
;; PRIOR APPLICATION NUMBER: 10/291,265
;; PRIOR FILING DATE: 2002-11-08
;; PRIOR APPLICATION NUMBER: PCT/US01/02623
;; PRIOR FILING DATE: 2001-01-25
;; PRIOR APPLICATION NUMBER: 09/922,279
;; PRIOR FILING DATE: 2001-08-03
;; PRIOR APPLICATION NUMBER: 09/491,404
;; PRIOR FILING DATE: 2000-01-25
;; PRIOR APPLICATION NUMBER: 09/617,746
;; PRIOR FILING DATE: 2000-07-17
;; PRIOR APPLICATION NUMBER: 09/631,451
;; PRIOR FILING DATE: 2000-08-03
;; PRIOR APPLICATION NUMBER: 09/633,870
;; PRIOR FILING DATE: 2000-09-15
;; NUMBER OF SEQ ID NOS: 944
;; SOFTWARE: FastSeq for Windows Version 3.0
;; SEQ ID NO 864
;; LENGTH: 123
;; TYPE: PRT
;; ORGANISM: Homo sapiens
US-11-000-463-864

Query Match 62.1%; Score 36; DB 11; Length 123;

Best Local Similarity 100.0%; Pred. No. 48;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 5 CPWC 8
DB 5 CPWC 8

RESULT 27

US-10-506-454-268
;; Sequence 268, Application US/10506454
;; Publication No. US20060068386A1
;; GENERAL INFORMATION:
;; APPLICANT: Slesarev, Alexi I
;; APPLICANT: Mezhevaya, Katja V
;; APPLICANT: Polushin, Nikolai N
;; APPLICANT: Shcherbina, Olga V
;; APPLICANT: Shaknova, Vera V
;; APPLICANT: Malykh, Andrei G
;; APPLICANT: Kozyavkin, Sergei A
;; TITLE OF INVENTION: The Complete Genome and Protein Sequences of the Hyperthermophile
;; TITLE OF INVENTION: Methanopyrus kandleri AV19 and Monophyly of Archaeal Methanogens
;; FILE REFERENCE: FID001
;; CURRENT APPLICATION NUMBER: US/10/506,454
;; PRIOR FILING DATE: 2004-08-31
;; PRIOR APPLICATION NUMBER: PCT/US03/06664
;; PRIOR FILING DATE: 2003-03-04
;; PRIOR APPLICATION NUMBER: 60/361,742
;; PRIOR FILING DATE: 2002-03-04
;; NUMBER OF SEQ ID NOS: 1722
;; SOFTWARE: Patentin version 3.2
;; SEQ ID NO 268
;; LENGTH: 141
;; TYPE: PRT
;; ORGANISM: Methanopyrus kandleri
US-10-506-454-268

Query Match 62.1%; Score 36; DB 9; Length 141;
Best Local Similarity 44.4%; Pred. No. 53;
Matches 4; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

QY 1 LSFVCPWCA 9
DB 9 IAFCCNWC 17

RESULT 28

US-11-188-298-2174
;; Sequence 2174, Application US/11188298
;; Publication No. US20060075522A1
;; GENERAL INFORMATION:
;; APPLICANT: Abad, Mark S. et al.
;; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
;; FILE REFERENCE: 38-21(53452)B
;; CURRENT APPLICATION NUMBER: US/11/188,298
;; PRIOR FILING DATE: 2005-07-22
;; PRIOR APPLICATION NUMBER: 60/592,978
;; PRIOR FILING DATE: 2004-07-31
;; NUMBER OF SEQ ID NOS: 22569
;; SEQ ID NO 2174
;; LENGTH: 174
;; TYPE: PRT
;; ORGANISM: Triticum aestivum
US-11-188-298-2174

Query Match 62.1%; Score 36; DB 11; Length 174;
Best Local Similarity 100.0%; Pred. No. 62;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 5 CPWC 8
DB 97 CPWC 100

```
RESULT 29
US-11-188-298-17809
; Sequence 17809, Application US/11188298
; Publication No. US20060075522A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
; FILE REFERENCE: 38-21(53452)B
; CURRENT FILING DATE: 2005-07-22
; PRIOR FILING DATE: 2004-07-31
; PRIOR APPLICATION NUMBER: 60/592,978
; NUMBER OF SEQ ID NOS: 22569
; SEQ ID NO 17809
; LENGTH: 182
; TYPE: PRT
; ORGANISM: Triticum aestivum
US-11-188-298-17809

Query Match      62.1%; Score 36; DB 11; Length 182;
Best Local Similarity 100.0%; Pred. No. 65;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      5 CPMC 8
      ||||
Db      105 CPMC 108

RESULT 30
US-10-506-454-187
; Sequence 187, Application US/10506454
; Publication No. US20060068386A1
; GENERAL INFORMATION:
; APPLICANT: Slesarev, Alexi I
; APPLICANT: Mezhevaeva, Katja V
; APPLICANT: Polushin, Nikolai N
; APPLICANT: Shcherbina, Olga V
; APPLICANT: Shakhova, Vera V
; APPLICANT: Malynk, Andrei G
; APPLICANT: Kozavkin, Sergei A
; TITLE OF INVENTION: The Complete Genome and Protein Sequences of the Hyperthermophile
; TITLE OF INVENTION: Methanopyrus Kandleri AV19 and Monophyly of Archaeal Methanogens
; TITLE OF INVENTION: and Methods of Use Thereof
; FILE REFERENCE: FID001
; CURRENT APPLICATION NUMBER: US/10/506,454
; CURRENT FILING DATE: 2004-08-31
; PRIOR APPLICATION NUMBER: PCT/US03/06664
; PRIOR FILING DATE: 2003-03-04
; PRIOR APPLICATION NUMBER: 60/361,742
; PRIOR FILING DATE: 2002-03-04
; NUMBER OF SEQ ID NOS: 1722
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 187
; LENGTH: 219
; TYPE: PRT
; ORGANISM: Methanopyrus kandleri
US-10-506-454-187

Query Match      62.1%; Score 36; DB 9; Length 219;
Best Local Similarity 100.0%; Pred. No. 74;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      5 CPMC 8
      ||||
Db      32 CPMC 35

RESULT 31
US-11-172-740-1537
; Sequence 1537, Application US/11172740
; Publication No. US20060057724A1
```

```
; GENERAL INFORMATION:
; APPLICANT: MASCIA, Peter
; APPLICANT: ALEXANDROV, Nikolai
; APPLICANT: BROVER, Vyacheslav
; TITLE OF INVENTION: NUCLEOTIDE SEQUENCES AND POLYPEPTIDES ENCODED THEREBY USEFUL FOR
; TITLE OF INVENTION: PLANT CHARACTERISTICS AND PHENOTYPES
; FILE REFERENCE: 2750-1602PUS2
; CURRENT APPLICATION NUMBER: US/11/172,740
; CURRENT FILING DATE: 2005-06-30
; PRIOR APPLICATION NUMBER: 60/583,621
; PRIOR FILING DATE: 2004-06-30
; PRIOR APPLICATION NUMBER: 60/584,829
; PRIOR FILING DATE: 2004-06-30
; PRIOR APPLICATION NUMBER: 60/584,800
; PRIOR FILING DATE: 2004-06-30
; NUMBER OF SEQ ID NOS: 2523
; SEQ ID NO 1537
; LENGTH: 260
; TYPE: PRT
; ORGANISM: Triticum aestivum
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)..(260)
; OTHER INFORMATION: Ceres CLONE ID no. 937503
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION:
; OTHER INFORMATION: Utililty: Useful for increasing seed/fruit yield or modifying fruit
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION:
; OTHER INFORMATION: Utililty: Useful for making ornamental plants with modified flowers
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION:
; OTHER INFORMATION: Utililty: Useful for making plants sterile and for genetic confinen
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION:
; OTHER INFORMATION: Utililty: Useful for making plants with increased biomass and foli
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION:
; OTHER INFORMATION: Utililty: Useful for making smaller plants
; NAME/KEY: misc_feature
; LOCATION:
; OTHER INFORMATION: Utililty: Useful for making taller plants and plants with longer
; OTHER INFORMATION: inflorescences
US-11-172-740-1537

Query Match      62.1%; Score 36; DB 11; Length 260;
Best Local Similarity 100.0%; Pred. No. 84;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      5 CPMC 8
      ||||
Db      97 CPMC 100

RESULT 32
US-11-188-298-497
; Sequence 497, Application US/11188298
; Publication No. US20060075522A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
; FILE REFERENCE: 38-21(53452)B
; CURRENT APPLICATION NUMBER: US/11/188,298
; CURRENT FILING DATE: 2005-07-22
; PRIOR APPLICATION NUMBER: 60/592,978
; PRIOR FILING DATE: 2004-07-31
; NUMBER OF SEQ ID NOS: 22569
```

SEQ ID NO 497
LENGTH: 261
TYPE: PRT
ORGANISM: Arabidopsis thaliana
US-11-188-298-497

Query Match 62.1%; Score 36; DB 11; Length 261;
Best Local Similarity 100.0%; Pred. No. 85;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 5 CPWC 8
Db 98 CPWC 101

RESULT 33
US-11-188-298-5500
Sequence 5500, Application US/11188298
Publication No. US20060075522A1
GENERAL INFORMATION:
APPLICANT: Abad, Mark S. et al.
TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
FILE REFERENCE: 38-21(53452)B
CURRENT APPLICATION NUMBER: US/11/188,298
CURRENT FILING DATE: 2005-07-22
PRIOR APPLICATION NUMBER: 60/592,978
PRIOR FILING DATE: 2004-07-31
NUMBER OF SEQ ID NOS: 22569
SEQ ID NO 5500
TYPE: PRT
ORGANISM: Triticum aestivum
FEATURE:
NAME/KEY: unsure
LOCATION: (1)..(261)
OTHER INFORMATION: unsure at all Xaa locations
US-11-188-298-5500

Query Match 62.1%; Score 36; DB 11; Length 261;
Best Local Similarity 100.0%; Pred. No. 85;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 5 CPWC 8
Db 97 CPWC 100

RESULT 34
US-11-188-298-13909
Sequence 13909, Application US/11188298
Publication No. US20060075522A1
GENERAL INFORMATION:
APPLICANT: Abad, Mark S. et al.
TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
FILE REFERENCE: 38-21(53452)B
CURRENT APPLICATION NUMBER: US/11/188,298
CURRENT FILING DATE: 2005-07-22
PRIOR APPLICATION NUMBER: 60/592,978
PRIOR FILING DATE: 2004-07-31
NUMBER OF SEQ ID NOS: 22569
SEQ ID NO 13909
LENGTH: 261
TYPE: PRT
ORGANISM: Oryza sativa
FEATURE:
NAME/KEY: unsure
LOCATION: (1)..(261)
OTHER INFORMATION: unsure at all Xaa locations
US-11-188-298-13909

Query Match 62.1%; Score 36; DB 11; Length 261;
Best Local Similarity 100.0%; Pred. No. 85;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 5 CPWC 8
Db 97 CPWC 100

RESULT 35
US-11-172-740-1533
Sequence 1533, Application US/11172740
Publication No. US2006007724A1
GENERAL INFORMATION:
APPLICANT: MASCIA, Peter
APPLICANT: ALEXANDROV, Nikolai
APPLICANT: BROVER, Vyacheslav
TITLE OF INVENTION: NUCLEOTIDE SEQUENCES AND POLYPEPTIDES ENCODED THEREBY USEFUL FOR
FILE REFERENCE: 2750-1602PUS2
CURRENT APPLICATION NUMBER: US/11/172,740
CURRENT FILING DATE: 2005-06-30
PRIOR APPLICATION NUMBER: 60/583,621
PRIOR FILING DATE: 2004-06-30
PRIOR APPLICATION NUMBER: 60/584,829
PRIOR FILING DATE: 2004-06-30
PRIOR APPLICATION NUMBER: 60/584,800
PRIOR FILING DATE: 2004-06-30
NUMBER OF SEQ ID NOS: 2523
SEQ ID NO 1533
LENGTH: 263
TYPE: PRT
ORGANISM: Arabidopsis thaliana
FEATURE:
NAME/KEY: misc_feature
LOCATION: (54)..(83)
OTHER INFORMATION: Pfam Name: zf-C3HC4; Pfam Description: Zinc finger, C3HC4 type (R)
OTHER INFORMATION: finger
FEATURE:
NAME/KEY: misc_feature
LOCATION: (54)..(83)
OTHER INFORMATION: Pfam Name: zf-C3HC4; Pfam Description: Zinc finger, C3HC4 type (R)
OTHER INFORMATION: finger
FEATURE:
NAME/KEY: misc_feature
LOCATION:
OTHER INFORMATION: Useful for increasing seed/fruit yield or modifying fruit
FEATURE:
NAME/KEY: misc_feature
LOCATION:
OTHER INFORMATION: Useful for making ornamental plants with modified flowers
FEATURE:
NAME/KEY: misc_feature
LOCATION:
OTHER INFORMATION: Useful for making plants sterile and for genetic confinement
FEATURE:
NAME/KEY: misc_feature
LOCATION:
OTHER INFORMATION: Useful for making plants with increased biomass and foliage
FEATURE:
NAME/KEY: misc_feature
LOCATION:
OTHER INFORMATION: Useful for making taller plants and plants with longer

Query Match 62.1%; Score 36; DB 11; Length 263;
Best Local Similarity 100.0%; Pred. No. 85;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 5 CPWC 8
Db 97 CPWC 100


```

; PRIOR APPLICATION NUMBER: 60/584,829
; PRIOR FILING DATE: 2004-06-30
; PRIOR APPLICATION NUMBER: 60/584,800
; PRIOR FILING DATE: 2004-06-30
; NUMBER OF SEQ ID NOS: 2523
; SEQ ID NO 1536
; LENGTH: 267
; TYPE: PRF
; ORGANISM: Glycine max
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)..(267)
; OTHER INFORMATION: Public GI no. 37718893
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION:
; OTHER INFORMATION: Utility: Useful for increasing seed/fruit yield or modifying fruit
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION:
; OTHER INFORMATION: Utility: Useful for making ornamental plants with modified flower
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION:
; OTHER INFORMATION: Utility: Useful for making plants sterile and for genetic confine
; NAME/KEY: misc_feature
; LOCATION:
; OTHER INFORMATION: Utility: Useful for making plants with increased biomass and foli
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION:
; OTHER INFORMATION: Utility: Useful for making smaller plants
; NAME/KEY: misc_feature
; LOCATION:
; OTHER INFORMATION: Utility: Useful for making taller plants and plants with longer
; OTHER INFORMATION: inflorescences
; US-11-172-740-1536

Query Match      62.1%; Score 36; DB 11; Length 267;
Best Local Similarity 100.0%; Pred. No. 86;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      5 CPMC 8
DB      96 CPMC 99

RESULT 39
US-11-188-298-4536
; Sequence 4536, Application US/11188298
; Publication No. US20060075522A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
; FILE REFERENCE: 38-21(53452)B
; CURRENT APPLICATION NUMBER: US/11/188,298
; PRIOR FILING DATE: 2005-07-22
; PRIOR APPLICATION NUMBER: 60/592,978
; PRIOR FILING DATE: 2004-07-31
; NUMBER OF SEQ ID NOS: 22569
; SEQ ID NO 4536
; LENGTH: 267
; TYPE: PRF
; ORGANISM: Oryza sativa (japonica cultivar-group)
; US-11-188-298-4536

Query Match      62.1%; Score 36; DB 11; Length 267;
Best Local Similarity 100.0%; Pred. No. 86;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      5 CPMC 8

```

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DB      96 CPMC 99

RESULT 40
US-11-188-298-12720
; Sequence 12720, Application US/11188298
; Publication No. US20060075522A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
; FILE REFERENCE: 38-21(53452)B
; CURRENT APPLICATION NUMBER: US/11/188,298
; PRIOR FILING DATE: 2005-07-22
; PRIOR APPLICATION NUMBER: 60/592,978
; PRIOR FILING DATE: 2004-07-31
; NUMBER OF SEQ ID NOS: 22569
; SEQ ID NO 12720
; LENGTH: 267
; TYPE: PRF
; ORGANISM: Oryza sativa
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)..(267)
; OTHER INFORMATION: unsure at all xaa locations
; US-11-188-298-12720

Query Match      62.1%; Score 36; DB 11; Length 267;
Best Local Similarity 100.0%; Pred. No. 86;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      5 CPMC 8
DB      96 CPMC 99

RESULT 41
US-11-172-740-1538
; Sequence 1538, Application US/11172740
; Publication No. US20060057724A1
; GENERAL INFORMATION:
; APPLICANT: MASCIA, Peter
; APPLICANT: ALEXANDROV, Nickolai
; APPLICANT: BROVER, Vyacheslav
; TITLE OF INVENTION: NUCLEOTIDE SEQUENCES AND POLYPEPTIDES ENCODED THEREBY USEFUL FOR
; FILE REFERENCE: 2750-1602PUS2
; CURRENT APPLICATION NUMBER: US/11/172,740
; PRIOR FILING DATE: 2005-06-30
; PRIOR APPLICATION NUMBER: 60/583,621
; PRIOR FILING DATE: 2004-06-30
; PRIOR APPLICATION NUMBER: 60/584,829
; PRIOR FILING DATE: 2004-06-30
; PRIOR APPLICATION NUMBER: 60/584,800
; PRIOR FILING DATE: 2004-06-30
; NUMBER OF SEQ ID NOS: 2523
; SEQ ID NO 1538
; LENGTH: 270
; TYPE: PRF
; ORGANISM: Zea mays
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)..(270)
; OTHER INFORMATION: Ceres CLONE ID no. 1549251
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION:
; OTHER INFORMATION: Utility: Useful for increasing seed/fruit yield or modifying fruit
; NAME/KEY: misc_feature
; LOCATION:
; OTHER INFORMATION: Utility: Useful for making ornamental plants with modified flower
; FEATURE:

```


NAME/KEY: misc_feature
LOCATION: OTHER INFORMATION: Utility: Useful for making plants sterile and for genetic confining
FEATURE: NAME/KEY: misc_feature
LOCATION: OTHER INFORMATION: Utility: Useful for making plants with increased biomass and foli
FEATURE: NAME/KEY: misc_feature
LOCATION: OTHER INFORMATION: Utility: Useful for making smaller plants
FEATURE: NAME/KEY: misc_feature
LOCATION: OTHER INFORMATION: Utility: Useful for making taller plants and plants with longer
OTHER INFORMATION: Inflorescences
US-11-172-740-1538

Query Match 62.1%; Score 36; DB 11; Length 270;
Best Local Similarity 100.0%; Pred. No. 87;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 5 CPWC 8
DB 96 CPWC 99

RESULT 42
US-10-131-826A-424
Sequence 424, Application US/10131826A
Publication No. US20050245730A1
GENERAL INFORMATION:
APPLICANT: Baker, Kevin P.
APPLICANT: Beresini, Maureen
APPLICANT: Deforge, Laura
APPLICANT: Desnoyers, Luc
APPLICANT: Filvaroff, Ellen
APPLICANT: Gao, Wei-Qiang
APPLICANT: Gerritsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Gurney, Austin L.
APPLICANT: Sherwood, Steven
APPLICANT: Smith, Victoria
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Watanabe, Colin K.
APPLICANT: Wood, William
APPLICANT: Zhang, Zemin
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
TITLE OF INVENTION: ACIDS ENCODING THE SAME
FILE REFERENCE: P3330R1C128
CURRENT APPLICATION NUMBER: US/10/131,826A
CURRENT FILING DATE: 2002-04-24
PRIOR APPLICATION NUMBER: 60/049911
PRIOR FILING DATE: 1997-06-18
PRIOR APPLICATION NUMBER: 60/056974
PRIOR FILING DATE: 1997-08-26
PRIOR APPLICATION NUMBER: 60/059113
PRIOR FILING DATE: 1997-09-17
PRIOR APPLICATION NUMBER: 60/059115
PRIOR FILING DATE: 1997-09-17
PRIOR APPLICATION NUMBER: 60/059117
PRIOR FILING DATE: 1997-09-17
PRIOR APPLICATION NUMBER: 60/059122
PRIOR FILING DATE: 1997-09-17
PRIOR APPLICATION NUMBER: 60/059184
PRIOR FILING DATE: 1997-09-17
PRIOR APPLICATION NUMBER: 60/059263
PRIOR FILING DATE: 1997-09-18
PRIOR APPLICATION NUMBER: 60/059352
PRIOR FILING DATE: 1997-09-19
PRIOR APPLICATION NUMBER: 60/059588

PRIOR FILING DATE: 1997-09-19
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 550
SEQ ID NO 424
LENGTH: 349
TYPE: PRT
ORGANISM: Homo Sapien
US-10-131-826A-424

Query Match 62.1%; Score 36; DB 9; Length 349;
Best Local Similarity 62.5%; Pred. No. 1,1e+02;
Matches 5; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 LSFVCPWC 8
DB 57 LKFYAPWC 64

RESULT 43
US-10-973-115B-424
Sequence 424, Application US/10973115B
Publication No. US20060040351A1
GENERAL INFORMATION:
APPLICANT: Baker, Kevin P.
APPLICANT: Beresini, Maureen
APPLICANT: Deforge, Laura
APPLICANT: Desnoyers, Luc
APPLICANT: Filvaroff, Ellen
APPLICANT: Gao, Wei-Qiang
APPLICANT: Gerritsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul
APPLICANT: Gurney, Austin L.
APPLICANT: Sherwood, Steven
APPLICANT: Smith, Victoria
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Watanabe, Colin K.
APPLICANT: Wood, William I.
APPLICANT: Zhang, Zemin
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC ACIDS ENCODING
TITLE OF INVENTION: SAME
FILE REFERENCE: 39870-3330R1C300C1
CURRENT APPLICATION NUMBER: US/10/973,115B
CURRENT FILING DATE: 2004-10-22
PRIOR APPLICATION NUMBER: US 10/145,747
PRIOR FILING DATE: 2002-05-14
PRIOR APPLICATION NUMBER: US 10/028,072
PRIOR FILING DATE: 2001-12-19
PRIOR APPLICATION NUMBER: PCT/US00/32678
PRIOR FILING DATE: 2000-12-01
PRIOR APPLICATION NUMBER: US 09/581,742
PRIOR FILING DATE: 2000-06-16
PRIOR APPLICATION NUMBER: PCT/US00/05746
PRIOR FILING DATE: 2000-03-02
PRIOR APPLICATION NUMBER: 60/135,736
PRIOR FILING DATE: 1999-05-25
PRIOR APPLICATION NUMBER: US 60/123,090
PRIOR FILING DATE: 1999-03-05
NUMBER OF SEQ ID NOS: 550
SEQ ID NO 424
LENGTH: 349
TYPE: PRT
ORGANISM: Homo sapiens
US-10-973-115B-424

Query Match 62.1%; Score 36; DB 9; Length 349;
Best Local Similarity 62.5%; Pred. No. 1,1e+02;
Matches 5; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 LSFVCPWC 8
DB 57 LKFYAPWC 64

RESULT 44
US-10-216-161A-472
; Sequence 472, Application US/10216161A
; Publication No. US20060078964A1
GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Baker, Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnovers, Luc
; APPLICANT: Baton, Dan
; APPLICANT: Ferrara, Napoleon
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth J.
; APPLICANT: Kijavrin, Ivar J.
; APPLICANT: Kuo, Sophia S.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Shelton, David L.
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE OF INVENTION: Acids Encoding the Same
FILE REFERENCE: P26301C91
CURRENT APPLICATION NUMBER: US/10/216,161A
CURRENT FILING DATE: 2002-11-19
PRIOR APPLICATION NUMBER: 09/918585
PRIOR FILING DATE: 2001-07-30
PRIOR APPLICATION NUMBER: PCT/US00/04341
PRIOR FILING DATE: 2000-02-18
PRIOR APPLICATION NUMBER: PCT/US99/05028
PRIOR FILING DATE: 1999-03-08
PRIOR APPLICATION NUMBER: US 09/380,138
PRIOR FILING DATE: 1999-08-25
PRIOR APPLICATION NUMBER: 60/126,773
PRIOR FILING DATE: 1999-03-29
PRIOR APPLICATION NUMBER: 60/081,955
PRIOR FILING DATE: 1998-04-15
NUMBER OF SEQ ID NOS: 624
SEQ ID NO 472
LENGTH: 349
TYPE: PRT
ORGANISM: Homo sapiens
US-10-216-161A-472

Query Match 62.1%; Score 36; DB 9; Length 349;
Best Local Similarity 62.5%; Pred. No. 1.1e+02;
Matches 5; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 LSFVCPWC 8
| | | | |
Db 57 LKFYAPWC 64

RESULT 45
US-10-137-873A-424
; Sequence 424, Application US/10137873A
; Publication No. US20060084138A1
GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.

APPLICANT: Beresini, Maureen
APPLICANT: Deforge, Laura
APPLICANT: Desnovers, Luc
APPLICANT: Filvaroff, Ellen
APPLICANT: Gao, Wei-Qiang
APPLICANT: Gerritsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Gurney, Austin L.
APPLICANT: Sherwood, Steven
APPLICANT: Smith, Victoria
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Watanabe, Colin K
APPLICANT: Wood, William
APPLICANT: Zhang, Zemin
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
FILE OF INVENTION: ACIDS ENCODING THE SAME
FILE REFERENCE: P3330R1C149
CURRENT APPLICATION NUMBER: US/10/137,873A
CURRENT FILING DATE: 2002-04-23
PRIOR APPLICATION NUMBER: 60/049911
PRIOR FILING DATE: 1997-06-18
PRIOR APPLICATION NUMBER: 60/056974
PRIOR FILING DATE: 1997-08-26
PRIOR APPLICATION NUMBER: 60/059113
PRIOR FILING DATE: 1997-09-17
PRIOR APPLICATION NUMBER: 60/059115
PRIOR FILING DATE: 1997-09-17
PRIOR APPLICATION NUMBER: 60/059117
PRIOR FILING DATE: 1997-09-17
PRIOR APPLICATION NUMBER: 60/059122
PRIOR FILING DATE: 1997-09-17
PRIOR APPLICATION NUMBER: 60/059184
PRIOR FILING DATE: 1997-09-17
PRIOR APPLICATION NUMBER: 60/059263
PRIOR FILING DATE: 1997-09-18
PRIOR APPLICATION NUMBER: 60/059352
PRIOR FILING DATE: 1997-09-19
PRIOR APPLICATION NUMBER: 60/059588
PRIOR FILING DATE: 1997-09-19
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 550
SEQ ID NO 424
LENGTH: 349
TYPE: PRT
ORGANISM: Homo Sapien
US-10-137-873A-424

Query Match 62.1%; Score 36; DB 9; Length 349;
Best Local Similarity 62.5%; Pred. No. 1.1e+02;
Matches 5; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 LSFVCPWC 8
| | | | |
Db 57 LKFYAPWC 64

RESULT 46
US-10-152-370-424
; Sequence 424, Application US/10152370
; Publication No. US20060084139A1
GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Beresini, Maureen
; APPLICANT: Deforge, Laura
; APPLICANT: Desnovers, Luc
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.

APPLICANT: Sherwood, Steven
APPLICANT: Smith, Victoria
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Watanabe, Colin K
APPLICANT: Wood, William
APPLICANT: Zhang, Zemin
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
FILE REFERENCE: P3330R1C407
CURRENT APPLICATION NUMBER: US/10/152,370
CURRENT FILING DATE: 2002-05-21
Prior Application removed - See file wrapper or Palm
NUMBER OF SEQ ID NOS: 550
SEQ ID NO 424
LENGTH: 349
TYPE: PRT
ORGANISM: Homo Sapien
US-10-152-370-424

Query Match 62.1%; Score 36; DB 9; Length 349;
Best Local Similarity 62.5%; Pred. No. 1.1e+02;
Matches 5; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 1 LSFVCPWC 8
Db 57 LKFYAPWC 64

RESULT 47
US-11-290-153-424
Sequence 424, Application US/11290153
Publication No. US20060073568A1
GENERAL INFORMATION:
APPLICANT: Baker, Kevin P.
APPLICANT: Beresini, Maureen
APPLICANT: DeForge, Laura
APPLICANT: Desnoyers, Luc
APPLICANT: Filvaroff, Ellen
APPLICANT: Gao, Wei-Qiang
APPLICANT: Gerritsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Gurney, Austin L.
APPLICANT: Sherwood, Steven
APPLICANT: Smith, Victoria
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Watanabe, Colin K
APPLICANT: Wood, William
APPLICANT: Zhang, Zemin
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
FILE REFERENCE: P3330R1C321
CURRENT APPLICATION NUMBER: US/11/290,153
CURRENT FILING DATE: 2005-11-30
Prior Application removed - See file wrapper or Palm
NUMBER OF SEQ ID NOS: 550
SEQ ID NO 424
LENGTH: 349
TYPE: PRT
ORGANISM: Homo Sapien
US-11-290-153-424

PRIOR FILING DATE: 1997-09-18
PRIOR APPLICATION NUMBER: 60/059352
PRIOR FILING DATE: 1997-09-19
Remaining Prior Application data removed - See file wrapper or PALM.
NUMBER OF SEQ ID NOS: 550
SEQ ID NO 424
LENGTH: 349
TYPE: PRT
ORGANISM: Homo Sapien
US-11-290-153-424

Query Match 62.1%; Score 36; DB 11; Length 349;
Best Local Similarity 62.5%; Pred. No. 1.1e+02;
Matches 5; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 1 LSFVCPWC 8
Db 57 LKFYAPWC 64

RESULT 48
US-11-060-023-10
Sequence 10, Application US/11060023
Publication No. US2005025531A1
GENERAL INFORMATION:
APPLICANT: Aventis Pharma Deutschland GmbH
TITLE OF INVENTION: Process for identifying modulators of G protein coupled
FILE REFERENCE: AVE D-2000/A03 englisch
CURRENT APPLICATION NUMBER: US/11/060,023
CURRENT FILING DATE: 2005-02-17
Prior Application removed - See file wrapper or Palm
NUMBER OF SEQ ID NOS: 295
PRIOR FILING DATE: 2003-07-06
SOFTWARE: Patentin Ver. 2.1
SEQ ID NO 10
LENGTH: 374
TYPE: PRT
ORGANISM: Mus musculus
US-11-060-023-10

Query Match 62.1%; Score 36; DB 11; Length 374;
Best Local Similarity 100.0%; Pred. No. 1.1e+02;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 5 CPWC 8
Db 10 CPWC 13

RESULT 49
US-11-228-364-2
Sequence 2, Application US/11228364
Publication No. US2006008655A1
GENERAL INFORMATION:
APPLICANT: Negulescu, Paul
APPLICANT: Offermanns, Stefan
APPLICANT: Simon, Melvin
APPLICANT: Zuker, Charles
TITLE OF INVENTION: PROMISCUOUS G-PROTEINS COMPOSITIONS AND THEIR USE
FILE REFERENCE: 08366/002001
CURRENT APPLICATION NUMBER: US/11/228,364
CURRENT FILING DATE: 2005-09-16
Prior Application removed - See file wrapper or Palm
NUMBER OF SEQ ID NOS: 224
PRIOR FILING DATE: 1999-12-20
Prior Application removed - See file wrapper or Palm
NUMBER OF SEQ ID NOS: 4
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 2
LENGTH: 374

TYPE: PRT
ORGANISM: Mus musculus
US-11-228-364-2

Query Match 62.1%; Score 36; DB 11; Length 374;
Best Local Similarity 100.0%; Pred. No. 1.1e+02;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 5 CPWC 8
Db 10 CPWC 13

RESULT 50
US-11-228-364-4
Sequence 4, Application US/11228364
Publication No. US2006008855A1
GENERAL INFORMATION:
APPLICANT: Negulescu, Paul
APPLICANT: Offermanns, Stefan
APPLICANT: Simon, Melvin
APPLICANT: Zuker, Charles
TITLE OF INVENTION: PROMISCUOUS G-PROTEINS COMPOSITIONS AND THEIR USE
FILE REFERENCE: 08366/002001
CURRENT APPLICATION NUMBER: US/11/228,364
CURRENT FILING DATE: 2005-09-16
PRIOR APPLICATION NUMBER: US/09/468,002
PRIOR FILING DATE: 1999-12-20
PRIOR APPLICATION NUMBER: US/08/878,801
PRIOR FILING DATE: 1997-06-19
PRIOR APPLICATION NUMBER: US 60/020,234
PRIOR FILING DATE: 1996-06-21
NUMBER OF SEQ ID NOS: 4
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 4
LENGTH: 374
TYPE: PRT
ORGANISM: Homo sapiens
US-11-228-364-4

Query Match 62.1%; Score 36; DB 11; Length 374;
Best Local Similarity 100.0%; Pred. No. 1.1e+02;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 5 CPWC 8
Db 10 CPWC 13

Search completed: May 5, 2006, 08:29:44
Job time : 10.4 secs

GenCore version 5.1.7
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OM protein - protein search, using sw model

Run on: May 5, 2006, 03:13:35 ; Search time 21 Seconds
(without alignments)
35.432 Million cell updates/sec

Title: US-08-170-344-35

Perfect score: 52

Sequence: 1 YRDGNPYAV 9

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 572060 seqs, 82675679 residues

Total number of hits satisfying chosen parameters: 572060

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 1000 summaries

Database :

Issued Patents AA: *
1: /cgn2_6/prodata/1/iaa/5-COMB.pep.*
2: /cgn2_6/prodata/1/iaa/6-COMB.pep.*
3: /cgn2_6/prodata/1/iaa/H-COMB.pep.*
4: /cgn2_6/prodata/1/iaa/PCUS-COMB.pep.*
5: /cgn2_6/prodata/1/iaa/RE-COMB.pep.*
6: /cgn2_6/prodata/1/iaa/backfile1.pep.*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	52	100.0	9	US-08-159-339A-219	Sequence 219, App
2	52	100.0	151	US-09-701-080C-18	Sequence 10, Appl
3	52	100.0	158	US-09-980-523A-2	Sequence 2, Appl
4	52	100.0	162	US-08-316-239B-3	Sequence 3, Appl
5	52	100.0	162	US-08-316-239B-4	Sequence 4, Appl
6	52	100.0	172	US-08-860-165-14	Sequence 14, Appl
7	52	100.0	172	US-09-359-382-14	Sequence 14, Appl
8	52	100.0	243	US-09-462-993-1	Sequence 1, Appl
9	52	100.0	266	US-08-860-165-10	Sequence 10, Appl
10	52	100.0	266	US-09-359-382-10	Sequence 10, Appl
11	52	100.0	266	US-09-367-309A-1	Sequence 1, Appl
12	52	100.0	273	US-09-485-885-4	Sequence 4, Appl
13	52	100.0	292	US-09-485-885-10	Sequence 10, Appl
14	52	100.0	371	US-09-485-885-6	Sequence 6, Appl
15	52	100.0	390	US-09-485-885-14	Sequence 14, Appl
16	45	86.5	22	US-10-612-818-4	Sequence 4, Appl
17	44	84.6	9	US-08-159-339A-133	Sequence 133, App
18	44	84.6	22	US-09-980-523A-6	Sequence 6, Appl
19	44	84.6	23	US-09-601-729-276	Sequence 276, App
20	41	78.8	9	US-09-574-749B-42	Sequence 42, Appl
21	40	76.9	20	US-08-934-915-162	Sequence 162, App
22	37	71.2	253	US-09-710-279-2428	Sequence 2428, App
23	37	71.2	281	US-09-134-001C-3445	Sequence 3445, App
24	37	71.2	484	US-08-111-939-12	Sequence 12, Appl
25	37	71.2	578	US-09-503-172A-2	Sequence 2, Appl
26	37	71.2	719	US-09-641-741-28	Sequence 28, Appl
27	37	71.2	845	US-09-641-741-29	Sequence 29, Appl

28	37	71.2	1128	1	US-08-111-939-2	Sequence 2, Appl
29	37	71.2	1128	2	US-09-641-741-30	Sequence 30, Appl
30	37	71.2	1128	2	US-09-060-482-8	Sequence 8, Appl
31	37	71.2	1158	2	US-09-060-482-2	Sequence 2, Appl
32	37	71.2	1172	2	US-09-949-016-8593	Sequence 8593, App
33	37	71.2	1391	2	US-10-080-505-11	Sequence 11, Appl
34	37	71.2	1391	2	US-10-080-505-15	Sequence 15, Appl
35	36	69.2	197	2	US-09-902-540-12611	Sequence 12611, A
36	36	69.2	416	2	US-09-537-644-2	Sequence 2, Appl
37	36	69.2	529	2	US-09-537-644-1	Sequence 1, Appl
38	36	69.2	626	2	US-09-485-717-2	Sequence 2, Appl
39	36	69.2	626	2	US-09-948-722-2	Sequence 2, Appl
40	34	65.4	172	2	US-08-860-165-12	Sequence 12, Appl
41	34	65.4	172	2	US-09-359-382-12	Sequence 12, Appl
42	34	65.4	188	2	US-09-704-321-2	Sequence 2, Appl
43	34	65.4	194	2	US-09-489-039A-8510	Sequence 8510, App
44	34	65.4	275	2	US-09-828-523A-4	Sequence 4, Appl
45	34	65.4	284	2	US-09-828-523A-54	Sequence 54, Appl
46	34	65.4	320	2	US-09-252-991A-29355	Sequence 29355, A
47	34	65.4	348	2	US-09-902-540-15695	Sequence 15695, A
48	34	65.4	390	2	US-09-328-352-4913	Sequence 4913, App
49	34	65.4	461	1	US-08-186-222-2	Sequence 2, Appl
50	34	65.4	513	2	US-09-068-804-14	Sequence 14, Appl
51	33	63.5	9	2	US-09-593-870A-30	Sequence 30, Appl
52	33	63.5	9	2	US-09-601-171-3	Sequence 3, Appl
53	33	63.5	9	4	PCT-US95-04975-6	Sequence 6, Appl
54	33	63.5	146	2	US-09-543-681A-8184	Sequence 8184, App
55	33	63.5	179	2	US-09-710-279-1808	Sequence 1808, App
56	33	63.5	180	2	US-09-134-001C-4215	Sequence 4215, App
57	33	63.5	192	2	US-09-252-991A-21776	Sequence 21776, A
58	33	63.5	356	2	US-09-134-000C-4914	Sequence 4914, App
59	33	63.5	398	2	US-08-931-220-5	Sequence 5, Appl
60	33	63.5	398	2	US-10-030-330-6	Sequence 6, Appl
61	33	63.5	398	4	PCT-US95-11723-5	Sequence 5, Appl
62	33	63.5	413	2	US-09-583-110-5067	Sequence 1, Appl
63	33	63.5	417	2	US-09-107-433-2865	Sequence 2865, App
64	33	63.5	450	2	US-09-107-532A-4098	Sequence 4098, App
65	33	63.5	450	2	US-09-502-540-12319	Sequence 12319, A
66	33	63.5	465	2	US-09-902-540-15788	Sequence 15788, A
67	33	63.5	553	2	US-09-902-540-15788	Sequence 15788, A
68	33	63.5	527	2	US-09-583-110-3750	Sequence 13101, A
69	33	63.5	898	2	US-09-583-110-3750	Sequence 3196, App
70	33	63.5	899	2	US-09-107-433-3196	Sequence 3196, App
71	33	63.5	1347	2	US-09-949-016-9603	Sequence 9603, App
72	33	63.5	1456	1	US-08-026-138B-8	Sequence 8, Appl
73	33	63.5	1480	2	US-09-922-011-10	Sequence 10, Appl
74	33	63.5	1482	1	US-08-026-138B-2	Sequence 2, Appl
75	33	63.5	1484	1	US-08-231-193A-56	Sequence 56, Appl
76	33	63.5	1484	1	US-08-486-273A-56	Sequence 56, Appl
77	33	63.5	1484	2	US-08-940-086A-56	Sequence 56, Appl
78	33	63.5	1484	2	US-08-940-035A-56	Sequence 56, Appl
79	33	63.5	1484	2	US-08-935-105A-56	Sequence 2, Appl
80	33	63.5	1484	2	US-08-264-578-2	Sequence 56, Appl
81	33	63.5	1484	2	US-09-648-797-56	Sequence 56, Appl
82	33	63.5	1484	2	US-09-386-123-56	Sequence 5998, App
83	33	63.5	1484	2	US-09-949-016-5998	Sequence 5998, App
84	33	63.5	1484	2	US-10-007-747-56	Sequence 56, Appl
85	33	63.5	1484	2	US-10-007-747-56	Sequence 56, Appl
86	33	63.5	1484	2	US-09-945-901-56	Sequence 161, App
87	32	61.5	20	1	US-08-934-915-161	Sequence 21310, A
88	32	61.5	74	2	US-09-248-796A-21310	Sequence 102, App
89	32	61.5	126	2	US-09-599-360B-102	Sequence 1559, App
90	32	61.5	126	2	US-09-471-776-1559	Sequence 1, Appl
91	32	61.5	271	2	US-09-414-336-1	Sequence 4, Appl
92	32	61.5	295	1	US-08-411-706-4	Sequence 18068, A
93	32	61.5	320	2	US-10-104-047-2504	Sequence 2504, App
94	32	61.5	321	2	US-09-949-016-11616	Sequence 11616, A
95	32	61.5	335	2	US-09-252-991A-31860	Sequence 31860, A
96	32	61.5	337	2	US-09-252-991A-31860	Sequence 337, App
97	32	61.5	353	2	US-10-012-231A-397	Sequence 353, App
98	32	61.5	353	2	US-10-015-389A-397	Sequence 397, App
99	32	61.5	353	2	US-10-006-768A-397	Sequence 397, App
100	32	61.5	353	2	US-10-015-671A-397	Sequence 397, App

101	32	61.5	353	2	US-10-015-393A-397	Sequence 397, App	174	31	59.6	417	2	US-09-448-076-5	Sequence 5, Appl
102	32	61.5	353	2	US-10-011-833A-397	Sequence 397, App	175	31	59.6	419	2	US-09-702-572-5	Sequence 5, Appl
103	32	61.5	353	2	US-10-006-041A-397	Sequence 397, App	176	31	59.6	417	2	US-09-949-016-6664	Sequence 6864, App
104	32	61.5	353	2	US-10-012-064A-397	Sequence 397, App	177	31	59.6	431	2	US-09-949-016-10182	Sequence 10182, A
105	32	61.5	388	2	US-09-248-796A-23255	Sequence 23255, A	178	31	59.6	437	2	US-09-675-305-10	Sequence 10, Appl
106	32	61.5	415	2	US-09-248-796A-19656	Sequence 19656, A	179	31	59.6	437	2	US-10-200-344-10	Sequence 10, Appl
107	32	61.5	485	2	US-09-252-991A-24246	Sequence 24246, A	180	31	59.6	461	2	US-09-894-698-7	Sequence 7, Appl
108	32	61.5	552	2	US-09-328-352-4263	Sequence 4263, App	181	31	59.6	461	2	US-10-180-165-7	Sequence 7, Appl
109	32	61.5	552	2	US-09-328-352-5773	Sequence 5773, App	182	31	59.6	462	2	US-09-328-352-4742	Sequence 4742, App
110	32	61.5	560	2	US-09-352-991A-22343	Sequence 22343, App	183	31	59.6	466	2	US-09-949-016-7701	Sequence 7701, App
111	32	61.5	566	2	US-09-134-000C-4385	Sequence 4385, App	184	31	59.6	469	2	US-09-902-540-16788	Sequence 16788, App
112	32	61.5	577	2	US-09-328-352-7698	Sequence 7698, App	185	31	59.6	475	2	US-08-272-255-13	Sequence 13, Appl
113	32	61.5	581	2	US-09-534-407-3	Sequence 3, Appl	186	31	59.6	475	4	PCT-US95-08565-13	Sequence 13, Appl
114	32	61.5	581	2	US-09-999-201B-4	Sequence 4, Appl	187	31	59.6	483	2	US-09-894-698-2	Sequence 2, Appl
115	32	61.5	581	2	US-10-281-673A-4	Sequence 4, Appl	188	31	59.6	483	2	US-10-180-165-2	Sequence 2, Appl
116	32	61.5	704	2	US-09-409-180A-1	Sequence 1, Appl	189	31	59.6	502	2	US-09-252-991A-23390	Sequence 23390, A
117	32	61.5	718	2	US-09-540-236-2753	Sequence 2753, App	190	31	59.6	540	2	US-09-107-533A-5467	Sequence 5467, App
118	32	61.5	803	2	US-09-543-681A-5399	Sequence 5399, App	191	31	59.6	557	2	US-09-949-016-6279	Sequence 6279, App
119	32	61.5	824	1	US-08-321-750A-3	Sequence 3, Appl	192	31	59.6	564	2	US-09-949-016-9503	Sequence 9503, App
120	32	61.5	856	2	US-09-976-594-247	Sequence 247, App	193	31	59.6	591	1	US-08-889-402-1	Sequence 1, Appl
121	32	61.5	914	2	US-10-043-418-2	Sequence 2, Appl	194	31	59.6	605	1	US-08-889-402-2	Sequence 2, Appl
122	32	61.5	919	2	US-08-985-916-16	Sequence 16, Appl	195	31	59.6	610	2	US-09-328-352-7804	Sequence 7804, App
123	32	61.5	1179	2	US-09-252-991A-17895	Sequence 17895, A	196	31	59.6	654	2	US-09-270-767-41452	Sequence 41452, A
124	32	61.5	1545	2	US-08-296-791-4	Sequence 4, Appl	197	31	59.6	681	2	US-09-902-540-10527	Sequence 10527, A
125	32	61.5	1545	2	US-09-939-996-4	Sequence 4, Appl	198	31	59.6	707	2	US-09-266-965-101	Sequence 101, App
126	32	61.5	1545	2	US-10-080-505-4	Sequence 4, Appl	199	31	59.6	724	2	US-09-714-865-2	Sequence 2, Appl
127	32	61.5	1545	2	US-10-645-655-4	Sequence 4, Appl	200	31	59.6	729	2	US-09-949-016-10790	Sequence 10790, A
128	32	61.5	1545	4	PCT-US95-10661A-4	Sequence 4, Appl	201	31	59.6	729	2	US-09-949-016-10791	Sequence 10791, A
129	31.5	60.6	40	2	US-09-665-621A-13	Sequence 13, Appl	202	31	59.6	739	2	US-09-413-81A-86	Sequence 86, Appl
130	31.5	60.6	40	2	US-09-714-865-9	Sequence 9, Appl	203	31	59.6	741	1	US-08-277-231A-4	Sequence 7, Appl
131	31	59.6	49	2	US-09-770-767-58151	Sequence 58151, A	204	31	59.6	741	1	US-08-473-750-7	Sequence 7, Appl
132	31	59.6	61	2	US-09-248-796A-24735	Sequence 24735, A	205	31	59.6	741	1	US-08-473-750-7	Sequence 7, Appl
133	31	59.6	129	2	US-09-252-991A-16981	Sequence 16981, A	206	31	59.6	751	2	US-09-252-991A-25481	Sequence 25481, A
134	31	59.6	138	2	US-09-605-703B-24	Sequence 24, Appl	207	31	59.6	799	2	US-09-902-540-16408	Sequence 16408, A
135	31	59.6	164	2	US-09-758-759-61	Sequence 61, Appl	208	31	59.6	1009	2	US-09-693-146-4	Sequence 4, Appl
136	31	59.6	178	2	US-10-135-807-6	Sequence 6, Appl	209	31	59.6	1014	2	US-09-252-991A-17583	Sequence 17583, A
137	31	59.6	181	2	US-09-252-991A-31943	Sequence 31943, A	210	31	59.6	1219	2	US-09-252-991A-28840	Sequence 28840, A
138	31	59.6	183	2	US-09-809-665A-149	Sequence 149, App	211	31	59.6	1278	2	US-10-042-810-4	Sequence 4, Appl
139	31	59.6	203	2	US-09-489-039A-9501	Sequence 9501, App	212	31	59.6	1338	2	US-09-631-602-2	Sequence 2, Appl
140	31	59.6	209	2	US-09-503-518D-474	Sequence 474, App	213	31	59.6	1709	2	US-09-949-016-10503	Sequence 10503, A
141	31	59.6	212	2	US-09-270-767-44947	Sequence 44947, A	214	31	59.6	1936	2	US-10-152-886-1	Sequence 1, Appl
142	31	59.6	216	2	US-09-605-703B-22	Sequence 22, Appl	215	31	59.6	2088	2	US-09-902-540-12906	Sequence 12906, A
143	31	59.6	234	2	US-09-252-991A-21695	Sequence 21695, A	216	31	59.6	2491	2	US-09-207-3463-1	Sequence 1, Appl
144	31	59.6	244	2	US-09-252-991A-24756	Sequence 24756, A	217	30	57.7	16	1	US-08-672-345C-19	Sequence 19, Appl
145	31	59.6	280	2	US-09-296-284-27	Sequence 27, Appl	218	30	57.7	16	1	US-08-672-345C-28	Sequence 28, Appl
146	31	59.6	282	2	US-09-489-039A-9167	Sequence 9167, App	219	30	57.7	16	2	US-09-214-093D-19	Sequence 19, Appl
147	31	59.6	297	2	US-09-068-195-12	Sequence 12, Appl	220	30	57.7	16	2	US-09-214-093D-28	Sequence 28, Appl
148	31	59.6	303	2	US-09-107-532A-4509	Sequence 4509, App	221	30	57.7	16	2	US-09-940-727B-19	Sequence 19, Appl
149	31	59.6	306	2	US-09-296-284-6	Sequence 6, Appl	222	30	57.7	16	2	US-09-940-727B-28	Sequence 28, Appl
150	31	59.6	313	2	US-09-902-540-10716	Sequence 10716, A	223	30	57.7	38	1	US-08-176-500-87	Sequence 87, Appl
151	31	59.6	327	2	US-09-328-352-6234	Sequence 6234, App	224	30	57.7	38	1	US-08-471-052A-87	Sequence 87, Appl
152	31	59.6	334	1	US-08-484-397A-8	Sequence 8, Appl	225	30	57.7	38	1	US-08-189-331-87	Sequence 87, Appl
153	31	59.6	347	1	US-09-710-279-3326	Sequence 3326, App	226	30	57.7	38	1	US-08-471-933-87	Sequence 87, Appl
154	31	59.6	348	1	US-08-366-953A-45	Sequence 45, Appl	227	30	57.7	38	1	US-08-471-933-87	Sequence 87, Appl
155	31	59.6	348	1	US-08-484-397A-2	Sequence 2, Appl	228	30	57.7	38	1	US-08-471-933-87	Sequence 87, Appl
156	31	59.6	348	1	US-08-484-397A-3	Sequence 3, Appl	229	30	57.7	40	1	US-08-807-332B-32	Sequence 32, Appl
157	31	59.6	348	1	US-08-484-397A-4	Sequence 4, Appl	230	30	57.7	40	2	US-09-338-876-32	Sequence 32, Appl
158	31	59.6	348	1	US-08-484-397A-5	Sequence 5, Appl	231	30	57.7	45	2	US-09-205-258-354	Sequence 554, App
159	31	59.6	348	1	US-08-484-397A-6	Sequence 6, Appl	232	30	57.7	45	2	US-10-004-860-554	Sequence 554, App
160	31	59.6	348	1	US-08-484-397A-7	Sequence 7, Appl	233	30	57.7	57	2	US-09-666-262A-8	Sequence 8, Appl
161	31	59.6	348	1	US-08-484-397A-27	Sequence 27, Appl	234	30	57.7	57	2	US-10-427-442-8	Sequence 8, Appl
162	31	59.6	348	1	US-08-484-397A-38	Sequence 38, Appl	235	30	57.7	72	2	US-09-666-262A-18	Sequence 18, Appl
163	31	59.6	356	2	US-09-806-158-1	Sequence 1, Appl	236	30	57.7	72	2	US-10-427-442-18	Sequence 18, Appl
164	31	59.6	371	2	US-09-134-001C-4502	Sequence 4502, App	237	30	57.7	79	2	US-09-270-767-53078	Sequence 53078, A
165	31	59.6	375	1	US-08-205-719-2	Sequence 2, Appl	238	30	57.7	88	2	US-09-489-039A-11825	Sequence 11825, A
166	31	59.6	375	2	US-08-746-883-5	Sequence 5, Appl	239	30	57.7	100	2	US-09-472-087-113	Sequence 113, App
167	31	59.6	375	2	US-09-113-177-5	Sequence 5, Appl	240	30	57.7	100	2	US-10-194-975-75	Sequence 75, Appl
168	31	59.6	386	2	US-09-134-001C-3770	Sequence 3770, App	241	30	57.7	100	2	US-10-194-975-75	Sequence 75, Appl
169	31	59.6	391	2	US-09-242-095-4	Sequence 4, Appl	242	30	57.7	112	1	US-07-942-245-28	Sequence 28, Appl
170	31	59.6	396	2	US-09-538-092-440	Sequence 440, App	243	30	57.7	112	2	US-09-840-455-56	Sequence 56, Appl
171	31	59.6	404	2	US-09-489-039A-13783	Sequence 13783, A	244	30	57.7	112	2	US-09-840-455-66	Sequence 66, Appl
172	31	59.6	417	2	US-09-276-400-5	Sequence 5, Appl	245	30	57.7	112	2	US-09-840-455-70	Sequence 70, Appl
173	31	59.6	417	2	US-09-242-095-2	Sequence 2, Appl	246	30	57.7	112	2	US-09-497-625A-56	Sequence 56, Appl

247	30	57.7	112	2	US-09-497-625A-66	Sequence 66, Appl	320	30	57.7	329	2	US-09-252-991A-26989	Sequence 26989, A
248	30	57.7	112	2	US-09-497-625A-70	Sequence 70, Appl	321	30	57.7	329	2	US-09-902-540-15389	Sequence 15389, A
249	30	57.7	112	2	US-09-254-180C-8	Sequence 8, Appl1	322	30	57.7	327	2	US-09-952-991A-27730	Sequence 27730, A
250	30	57.7	113	1	US-08-672-345C-5	Sequence 5, Appl1	323	30	57.7	361	2	US-09-248-796A-20099	Sequence 20099, A
251	30	57.7	113	1	US-08-672-345C-6	Sequence 6, Appl1	324	30	57.7	363	2	US-09-805-258-553	Sequence 553, App
252	30	57.7	113	1	US-08-672-345C-7	Sequence 7, Appl1	325	30	57.7	363	2	US-10-004-860-553	Sequence 553, App
253	30	57.7	113	1	US-08-672-345C-95	Sequence 95, Appl1	326	30	57.7	371	2	US-09-252-991A-29793	Sequence 29793, A
254	30	57.7	113	1	US-08-672-345C-96	Sequence 96, Appl1	327	30	57.7	371	2	US-09-248-796A-17748	Sequence 17748, A
255	30	57.7	113	1	US-08-672-345C-97	Sequence 97, Appl1	328	30	57.7	380	2	US-10-126-279-10	Sequence 10, Appl1
256	30	57.7	113	2	US-09-214-095D-5	Sequence 5, Appl1	329	30	57.7	380	2	US-10-126-279-10	Sequence 10, Appl1
257	30	57.7	113	2	US-09-214-095D-6	Sequence 6, Appl1	330	30	57.7	386	2	US-09-328-352-7679	Sequence 7679, App
258	30	57.7	113	2	US-09-214-095D-7	Sequence 7, Appl1	331	30	57.7	389	2	US-09-252-991A-30972	Sequence 30972, A
259	30	57.7	113	2	US-09-214-095D-100	Sequence 100, App	332	30	57.7	389	2	US-09-252-991A-10069	Sequence 10069, A
260	30	57.7	113	2	US-09-214-095D-104	Sequence 104, App	333	30	57.7	393	2	US-09-248-796A-16286	Sequence 16286, A
261	30	57.7	113	2	US-09-214-095D-112	Sequence 112, App	334	30	57.7	399	2	US-09-270-767-45921	Sequence 45921, A
262	30	57.7	113	2	US-09-940-727B-5	Sequence 5, Appl1	335	30	57.7	401	2	US-09-352-991A-25629	Sequence 25629, A
263	30	57.7	113	2	US-09-940-727B-6	Sequence 6, Appl1	336	30	57.7	403	2	US-09-710-279-1552	Sequence 1552, App
264	30	57.7	113	2	US-09-940-727B-7	Sequence 7, Appl1	337	30	57.7	423	2	US-09-668-262A-14	Sequence 14, Appl1
265	30	57.7	113	2	US-09-940-727B-100	Sequence 100, App	338	30	57.7	423	2	US-10-427-442-14	Sequence 2, Appl1
266	30	57.7	113	2	US-09-940-727B-104	Sequence 104, App	339	30	57.7	428	1	US-08-883-610A-2	Sequence 2, Appl1
267	30	57.7	113	2	US-09-940-727B-112	Sequence 112, App	340	30	57.7	428	1	US-08-883-610A-2	Sequence 2, Appl1
268	30	57.7	113	2	US-09-205-258-1127	Sequence 1127, App	341	30	57.7	428	2	US-08-336-094A-2	Sequence 2, Appl1
269	30	57.7	113	2	US-10-004-860-1127	Sequence 1127, App	342	30	57.7	428	2	US-09-829-094B-2	Sequence 2, Appl1
270	30	57.7	139	2	US-09-472-087-25	Sequence 25, Appl	343	30	57.7	438	2	US-09-252-991A-29900	Sequence 29900, A
271	30	57.7	139	2	US-09-472-087-114	Sequence 114, App	344	30	57.7	440	2	US-09-134-000C-4353	Sequence 4353, App
272	30	57.7	140	2	US-09-198-452A-238	Sequence 238, App	345	30	57.7	445	2	US-09-107-532A-5087	Sequence 5087, App
273	30	57.7	141	2	US-09-270-767-47909	Sequence 47909, A	346	30	57.7	445	2	US-09-636-999-13	Sequence 13, Appl
274	30	57.7	148	2	US-09-902-540-14284	Sequence 14284, A	347	30	57.7	445	2	US-09-636-999-14	Sequence 14, Appl
275	30	57.7	165	2	US-09-602-472A-63	Sequence 63, Appl	348	30	57.7	455	2	US-09-569-611C-39	Sequence 39, Appl
276	30	57.7	165	2	US-09-107-532A-5450	Sequence 5450, App	349	30	57.7	460	2	US-09-569-611C-39	Sequence 3806, A
277	30	57.7	175	2	US-09-569-611C-40	Sequence 40, Appl	350	30	57.7	475	2	US-09-252-991A-32806	Sequence 6905, App
278	30	57.7	182	2	US-09-252-991A-16683	Sequence 16683, A	351	30	57.7	479	1	US-09-949-016-6905	Sequence 2, Appl1
279	30	57.7	194	1	US-08-685-992-2	Sequence 2, Appl1	352	30	57.7	479	1	US-07-923-724-2	Sequence 2, Appl1
280	30	57.7	194	1	US-09-144-925-2	Sequence 2, Appl1	353	30	57.7	479	1	US-08-609-426A-2	Sequence 2, Appl1
281	30	57.7	206	2	US-09-270-767-43990	Sequence 43990, A	354	30	57.7	499	1	US-08-374-652C-4	Sequence 4, Appl1
282	30	57.7	211	2	US-09-270-767-43469	Sequence 43469, A	355	30	57.7	496	2	US-09-252-991A-17049	Sequence 17049, A
283	30	57.7	220	2	US-09-902-540-16002	Sequence 16002, A	356	30	57.7	511	2	US-09-252-991A-28264	Sequence 28264, A
284	30	57.7	222	2	US-09-479-614-26	Sequence 26, Appl	357	30	57.7	521	2	US-09-413-814-54	Sequence 54, Appl
285	30	57.7	226	2	US-09-902-540-10537	Sequence 10537, A	358	30	57.7	546	2	US-09-489-939A-9573	Sequence 9573, App
286	30	57.7	228	2	US-09-219-849-18	Sequence 38, Appl	359	30	57.7	570	2	US-09-902-540-11704	Sequence 11704, A
287	30	57.7	231	2	US-09-495-406-35	Sequence 35, Appl	360	30	57.7	575	2	US-09-252-991A-16680	Sequence 16680, A
288	30	57.7	231	2	US-09-272-960-5	Sequence 5, Appl1	361	30	57.7	587	2	US-09-147-923-2	Sequence 9773, App
289	30	57.7	231	2	US-09-816-028A-49	Sequence 49, Appl1	362	30	57.7	588	2	US-09-902-540-13586	Sequence 2, Appl1
290	30	57.7	231	2	US-10-058-636-5	Sequence 5, Appl1	363	30	57.7	593	2	US-09-252-991A-21665	Sequence 21665, A
291	30	57.7	231	2	US-10-303-162-49	Sequence 49, Appl1	364	30	57.7	608	2	US-09-134-001C-3855	Sequence 3855, App
292	30	57.7	231	2	US-10-303-134-49	Sequence 49, Appl	365	30	57.7	618	2	US-09-536-784-72	Sequence 72, Appl
293	30	57.7	231	2	US-10-303-118-49	Sequence 49, Appl	366	30	57.7	618	2	US-09-536-784-72	Sequence 72, Appl
294	30	57.7	231	2	US-10-303-128-49	Sequence 49, Appl	367	30	57.7	618	2	US-09-765-272A-72	Sequence 72, Appl
295	30	57.7	236	2	US-09-248-796A-14207	Sequence 14207, A	368	30	57.7	625	2	US-09-252-991A-26336	Sequence 26336, A
296	30	57.7	238	2	US-09-543-681A-5910	Sequence 5910, App	369	30	57.7	631	2	US-09-252-991A-29805	Sequence 29805, A
297	30	57.7	242	2	US-09-479-614-20	Sequence 20, Appl	370	30	57.7	631	2	US-09-971-188-8	Sequence 8, Appl1
298	30	57.7	246	2	US-09-848-294-9	Sequence 9, Appl1	371	30	57.7	659	1	US-08-258-639A-4	Sequence 4, Appl1
299	30	57.7	249	2	US-09-252-991A-23891	Sequence 23891, A	372	30	57.7	659	1	US-08-900-951-4	Sequence 4, Appl1
300	30	57.7	249	2	US-09-252-991A-23892	Sequence 23892, A	373	30	57.7	659	1	US-08-900-951-4	Sequence 4, Appl1
301	30	57.7	257	2	US-09-543-681A-6195	Sequence 6195, App	374	30	57.7	664	2	PCT-US95-07931A-4	Sequence 31116, A
302	30	57.7	258	2	US-09-248-796A-14208	Sequence 14208, A	375	30	57.7	673	2	US-09-540-236-1171	Sequence 1171, App
303	30	57.7	262	2	US-09-252-991A-27605	Sequence 27605, A	376	30	57.7	695	2	US-09-252-991A-29805	Sequence 29805, A
304	30	57.7	266	2	US-09-136-452A-927	Sequence 927, App	377	30	57.7	704	2	US-09-252-991A-29805	Sequence 422, App
305	30	57.7	270	2	US-09-489-039A-8781	Sequence 8781, App	378	30	57.7	704	2	US-10-004-860-422	Sequence 422, App
306	30	57.7	276	2	US-09-438-185A-863	Sequence 863, App	379	30	57.7	714	2	US-10-087-402-19	Sequence 19, Appl
307	30	57.7	277	2	US-09-134-000C-6741	Sequence 6741, App	380	30	57.7	753	2	US-09-252-991A-17987	Sequence 17987, App
308	30	57.7	277	2	US-09-438-185A-230	Sequence 230, App	381	30	57.7	757	2	US-09-902-540-11380	Sequence 11380, App
309	30	57.7	280	2	US-09-214-095D-119	Sequence 119, App	382	30	57.7	796	2	US-09-949-002-186	Sequence 186, App
310	30	57.7	280	2	US-09-940-727B-119	Sequence 119, App	383	30	57.7	796	2	US-09-949-002-186	Sequence 512, App
311	30	57.7	284	2	US-09-248-796A-17666	Sequence 17666, A	384	30	57.7	802	2	US-09-252-991A-18228	Sequence 18228, A
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313	30	57.7	290	2	US-09-769-787-153	Sequence 153, App	386	30	57.7	810	2	US-09-902-540-1162	Sequence 1162, A
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315	30	57.7	300	2	US-09-194-146-6	Sequence 6, Appl1	388	30	57.7	872	2	US-09-543-681A-6116	Sequence 6116, App
316	30	57.7	302	2	US-09-438-185A-179	Sequence 179, App	389	30	57.7	883	1	US-08-596-366-2	Sequence 2, Appl1
317	30	57.7	303	2	US-09-198-452A-194	Sequence 194, App	390	30	57.7	883	1	US-08-967-104-2	Sequence 2, Appl1
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562	29	55.8	641	2	US-09-606-304-10	Sequence 10, Appl	635	28.5	54.8	189	2	US-09-301-945-74	Sequence 74, Appli
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586	29	55.8	802	4	PCT-US93-03164-12	Sequence 152, App	659	28	53.8	113	2	US-09-513-999C-4305	Sequence 4305, App
587	29	55.8	849	2	US-09-081-385-152	Sequence 152, App	660	28	53.8	115	2	US-09-621-976-865	Sequence 865, App
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589	29	55.8	849	2	US-09-712-813-152	Sequence 152, App	662	28	53.8	122	2	US-08-184-604-2	Sequence 2, Appli
590	29	55.8	849	2	US-09-700-354A-152	Sequence 152, App	663	28	53.8	124	1	US-10-037-417-103	Sequence 103, App
591	29	55.8	849	2	US-09-328-352-7498	Sequence 7498, Ap	664	28	53.8	124	6	5171845-11	Patent No. 5171845
592	29	55.8	865	2	US-09-252-991A-23787	Sequence 23787, A	665	28	53.8	132	2	US-09-314-000C-3860	Sequence 3860, App
593	29	55.8	868	2	US-08-465-995A-2	Sequence 2, Appli	666	28	53.8	132	2	US-09-314-000C-3860	Sequence 3860, App
594	29	55.8	868	2	US-08-465-995A-2	Sequence 2, Appli	667	28	53.8	132	2	US-09-314-000C-3860	Sequence 3860, App
595	29	55.8	868	1	US-08-465-995A-4	Sequence 4, Appli	668	28	53.8	133	2	US-09-732-210-82	Sequence 82, Appli
596	29	55.8	868	1	US-08-465-994C-2	Sequence 2, Appli	669	28	53.8	145	2	US-09-270-767-31831	Sequence 3831, A
597	29	55.8	898	1	US-08-465-994C-4	Sequence 4, Appli	670	28	53.8	145	2	US-09-270-767-31831	Sequence 49048, A
598	29	55.8	898	1	US-08-966-145-2	Sequence 2, Appli	671	28	53.8	158	1	US-08-767-942A-19	Sequence 19, Appli
599	29	55.8	898	1	US-08-966-145-4	Sequence 4, Appli	672	28	53.8	158	1	US-08-767-942A-19	Sequence 36568, A
599	29	55.8	898	1	US-08-966-145-4	Sequence 4, Appli	673	28	53.8	160	2	US-09-270-767-31831	Sequence 51785, A
600	29	55.8	898	1	US-09-585-858-37	Sequence 37, Appli	674	28	53.8	160	2	US-09-198-452A-1190	Sequence 1190, App
601	29	55.8	898	2	US-10-270-878-37	Sequence 37, Appli	675	28	53.8	162	2	US-09-252-991A-20451	Sequence 20451, A
602	29	55.8	905	2	US-09-248-796A-15706	Sequence 15706, A	676	28	53.8	165	2	US-09-438-185A-381	Sequence 381, App
603	29	55.8	920	1	US-08-101-593-2	Sequence 2, Appli	677	28	53.8	166	2	US-09-438-185A-381	Sequence 4425, App
604	29	55.8	920	1	US-08-101-593-4	Sequence 4, Appli	678	28	53.8	177	2	US-08-044-621D-30	Sequence 30, Appli
605	29	55.8	1021	2	US-09-543-681A-7383	Sequence 7383, Ap	679	28	53.8	184	1	US-08-044-621D-31	Sequence 31, Appli
606	29	55.8	1216	2	US-10-023-649A-4	Sequence 5130, Ap	680	28	53.8	184	1	US-08-044-621D-31	Sequence 31, Appli
607	29	55.8	1236	2	US-10-023-649A-4	Sequence 6, Appli	681	28	53.8	184	1	US-08-044-621D-31	Sequence 31, Appli
608	29	55.8	1236	2	US-10-023-649A-6	Sequence 5500, Ap	682	28	53.8	184	1	US-08-044-621D-31	Sequence 31, Appli
609	29	55.8	1336	2	US-09-328-352-5500	Sequence 2, Appli	683	28	53.8	184	1	US-08-044-621D-31	Sequence 31, Appli
610	29	55.8	1394	2	US-08-296-791-2	Sequence 2, Appli	684	28	53.8	184	2	US-09-570-856B-25	Sequence 25, Appli
611	29	55.8	1394	2	US-09-839-996-2	Sequence 2, Appli	684	28	53.8	184	2	US-09-570-856B-25	Sequence 25, Appli

685	28	53.8	185	1	US-08-709-912-2	Sequence 2, Appl1	758	28	53.8	308	2	US-09-198-452A-339	Sequence 339, App
686	28	53.8	185	1	US-09-047-370-2	Sequence 2, Appl1	759	28	53.8	311	2	US-09-540-236-2561	Sequence 2581, Ap
687	28	53.8	185	2	US-09-330-590-2	Sequence 2, Appl1	760	28	53.8	314	1	US-08-822-701-10	Sequence 10, Appl
688	28	53.8	185	2	US-09-970-616-2	Sequence 2, Appl1	761	28	53.8	314	2	US-08-935-855-10	Sequence 10, Appl
689	28	53.8	185	2	US-09-902-540-15707	Sequence 15707, A	762	28	53.8	317	2	US-10-339-268A-5	Sequence 5, Appl1
690	28	53.8	188	2	US-08-861-774E-16	Sequence 968, App	763	28	53.8	317	2	US-10-339-268A-6	Sequence 6, Appl1
691	28	53.8	190	2	US-09-198-452A-968	Sequence 968, App	764	28	53.8	317	2	US-10-339-268A-7	Sequence 7, Appl1
692	28	53.8	193	2	US-09-270-767-43359	Sequence 43359, A	765	28	53.8	317	2	US-10-339-268A-8	Sequence 8, Appl1
693	28	53.8	195	1	US-08-928-692-27	Sequence 27, Appl	766	28	53.8	320	2	US-09-438-185A-18169	Sequence 18169, A
694	28	53.8	195	2	US-09-339-972-27	Sequence 27, Appl	767	28	53.8	334	2	US-09-252-991A-19041	Sequence 19041, A
695	28	53.8	195	2	US-09-438-185A-897	Sequence 897, App	768	28	53.8	338	2	US-09-252-991A-19041	Sequence 99, Appl
696	28	53.8	197	2	US-09-270-767-48282	Sequence 48282, A	769	28	53.8	343	2	US-09-413-81A-99	Sequence 13246, A
697	28	53.8	201	2	US-09-015-734-12	Sequence 12, Appl	770	28	53.8	347	2	US-09-489-039A-13246	Sequence 3, Appl1
698	28	53.8	201	2	US-09-515-311-12	Sequence 12, Appl	771	28	53.8	348	2	US-09-203-716-3	Sequence 3, Appl1
699	28	53.8	201	2	US-10-434-817-12	Sequence 2, Appl1	772	28	53.8	348	2	US-09-684-254-3	Sequence 3, Appl1
700	28	53.8	211	1	US-07-842-349-2	Sequence 2, Appl1	773	28	53.8	348	2	US-09-409-926-3	Sequence 2726, Ap
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702	28	53.8	211	1	US-07-955-726A-8	Sequence 8, Appl1	775	28	53.8	350	2	US-09-763-397A-2	Sequence 353, App
703	28	53.8	211	2	US-09-570-856B-27	Sequence 27, Appl	776	28	53.8	356	2	US-09-538-092-353	Sequence 5262, App
704	28	53.8	211	2	US-09-570-856B-33	Sequence 33, Appl	777	28	53.8	357	2	US-09-543-681A-1262	Sequence 3099, A
705	28	53.8	220	2	US-08-961-083-78	Sequence 78, Appl	778	28	53.8	358	2	US-09-540-236-3099	Sequence 16234, A
706	28	53.8	220	2	US-09-536-784-78	Sequence 78, Appl	779	28	53.8	367	2	US-09-902-540-16234	Sequence 3965, Ap
707	28	53.8	220	2	US-09-765-271-78	Sequence 78, Appl	780	28	53.8	370	2	US-09-583-110-3565	Sequence 15823, A
708	28	53.8	220	2	US-09-765-272A-78	Sequence 78, Appl	781	28	53.8	371	2	US-09-902-540-15823	Sequence 4, Appl1
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710	28	53.8	226	2	US-09-949-016-9545	Sequence 9545, Ap	783	28	53.8	373	2	US-09-313-177-4	Sequence 5772, Ap
711	28	53.8	234	2	US-09-134-000C-6409	Sequence 6409, Ap	784	28	53.8	374	2	US-09-248-796A-14508	Sequence 29575, A
712	28	53.8	235	1	US-08-580-545B-10	Sequence 10, Appl	785	28	53.8	380	2	US-09-134-000C-5772	Sequence 23, Appl
713	28	53.8	235	2	US-09-462-653A-10	Sequence 10, Appl	786	28	53.8	382	2	US-09-252-991A-29595	Sequence 23, Appl
714	28	53.8	236	2	US-09-015-734-7	Sequence 7, Appl1	787	28	53.8	383	2	US-09-485-885-23	Sequence 23, Appl
715	28	53.8	236	2	US-09-515-311-7	Sequence 7, Appl1	788	28	53.8	389	2	US-09-513-057C-23	Sequence 23, Appl
716	28	53.8	241	2	US-10-434-817-7	Sequence 7, Appl1	789	28	53.8	389	2	US-09-746-801A-23	Sequence 23, Appl
717	28	53.8	241	2	US-09-712-363-219	Sequence 219, App	790	28	53.8	389	2	US-10-719-885-23	Sequence 23, Appl
718	28	53.8	250	2	US-09-583-110-4339	Sequence 4339, Ap	791	28	53.8	392	2	US-10-104-047-3593	Sequence 3693, Ap
719	28	53.8	250	2	US-09-107-433-4900	Sequence 4900, Ap	792	28	53.8	395	2	US-09-548-938A-15	Sequence 15, Appl
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722	28	53.8	255	2	US-09-515-311-2	Sequence 2, Appl1	795	28	53.8	407	2	US-08-948-997-3	Sequence 3, Appl1
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724	28	53.8	257	2	US-09-248-796A-16054	Sequence 16054, A	797	28	53.8	410	2	US-09-489-039A-11862	Sequence 6, Appl1
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726	28	53.8	263	2	US-09-627-165E-10	Sequence 10, Appl	799	28	53.8	412	2	US-09-902-540-9713	Sequence 139, App
727	28	53.8	263	2	US-09-627-165E-12	Sequence 12, Appl	800	28	53.8	413	2	US-09-266-965-139	Sequence 6482, Ap
728	28	53.8	270	2	US-09-540-236-2375	Sequence 2375, Ap	801	28	53.8	417	2	US-09-949-016-6482	Sequence 2482, Ap
729	28	53.8	271	1	US-08-117-083-14	Sequence 14, Appl	802	28	53.8	417	2	US-10-104-047-2482	Sequence 8, Appl1
730	28	53.8	271	2	US-08-953-040-6	Sequence 6, Appl1	803	28	53.8	418	2	US-09-198-603C-8	Sequence 6044, Ap
731	28	53.8	273	2	US-09-248-796A-15062	Sequence 15062, A	804	28	53.8	418	2	US-09-949-016-6044	Sequence 34, Appl
732	28	53.8	277	2	US-09-538-092-1245	Sequence 1245, Ap	805	28	53.8	419	2	US-09-591-279A-34	Sequence 35, Appl
733	28	53.8	278	1	US-08-456-837-20	Sequence 20, Appl	806	28	53.8	420	2	US-09-591-279A-33	Sequence 16, Appl
734	28	53.8	278	1	US-08-456-837-20	Sequence 20, Appl	807	28	53.8	420	2	US-09-591-279A-35	Sequence 9517, Ap
735	28	53.8	278	1	US-08-457-342-20	Sequence 20, Appl	808	28	53.8	421	2	US-09-668-262A-16	Sequence 9518, Ap
736	28	53.8	278	1	US-08-457-646A-20	Sequence 20, Appl	809	28	53.8	421	2	US-10-427-444-16	Sequence 2895, Ap
737	28	53.8	278	1	US-08-458-076A-20	Sequence 20, Appl	810	28	53.8	422	2	US-09-949-016-9517	Sequence 5, Appl1
738	28	53.8	278	1	US-08-457-335A-20	Sequence 20, Appl	811	28	53.8	422	2	US-09-949-016-9518	Sequence 4, Appl1
739	28	53.8	278	1	US-08-729-214-20	Sequence 20, Appl	812	28	53.8	425	2	US-09-134-000C-2895	Sequence 14658, A
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741	28	53.8	278	2	US-09-485-885-21	Sequence 21, Appl	814	28	53.8	427	2	US-09-392-772-4	Sequence 6841, Ap
742	28	53.8	282	2	US-09-107-532A-4637	Sequence 4637, Ap	815	28	53.8	427	2	US-09-906-408A-6	Sequence 3817, Ap
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745	28	53.8	288	1	US-08-752-929-9	Sequence 9, Appl1	818	28	53.8	429	2	US-09-976-594-430	Sequence 14658, A
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750	28	53.8	289	1	US-09-262-653A-4	Sequence 4, Appl1	823	28	53.8	449	2	US-09-949-016-9515	Sequence 4286, Ap
751	28	53.8	289	2	US-08-867-484A-2	Sequence 2, Appl1	824	28	53.8	451	2	US-09-489-039A-12526	Sequence 5, Appl1
752	28	53.8	289	2	US-09-760-892-2	Sequence 2, Appl1	825	28	53.8	451	2	US-09-329-350-35	Sequence 35, Appl
753	28	53.8	290	2	US-09-949-016-9248	Sequence 9248, Ap	826	28	53.8	452	2	US-08-841-638A-35	Sequence 4, Appl1
754	28	53.8	294	2	US-09-328-352-7770	Sequence 7770, Ap	827	28	53.8	461	2	US-09-543-681A-4286	Sequence 4, Appl1
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756	28	53.8	296	2	US-09-302-540-9890	Sequence 9890, Ap	829	28	53.8				
757	28	53.8	301	2	US-09-107-532A-5225	Sequence 5225, Ap	830	28	53.8				

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832	28	53.8	462	2	US-09-328-352-4819	Sequence 419, Ap	905	28	53.8	649	2	US-09-300-909-13	Sequence 13, Appl1
833	28	53.8	462	2	US-09-884-363-4	Sequence 4, Appl1	906	28	53.8	649	2	US-09-300-909-15	Sequence 15, Appl1
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835	28	53.8	465	2	US-09-902-540-12493	Sequence 12493, A	908	28	53.8	649	2	US-09-300-909-27	Sequence 27, Appl1
836	28	53.8	466	2	US-09-355-115-8	Sequence 8, Appl1	909	28	53.8	649	2	US-10-339-268A-9	Sequence 9, Appl1
837	28	53.8	470	2	US-09-328-352-4561	Sequence 4561, Ap	910	28	53.8	649	2	US-10-339-268A-10	Sequence 10, Appl1
838	28	53.8	478	2	US-09-489-039A-7300	Sequence 7300, Ap	911	28	53.8	649	2	US-10-339-268A-11	Sequence 11, Appl1
839	28	53.8	480	2	US-09-248-796A-14579	Sequence 14579, A	912	28	53.8	649	2	US-10-339-268A-12	Sequence 12, Appl1
840	28	53.8	483	2	US-09-198-452A-438	Sequence 438, App	913	28	53.8	649	2	US-10-339-268A-13	Sequence 13, Appl1
841	28	53.8	483	2	US-09-438-185A-420	Sequence 420, App	914	28	53.8	649	2	US-10-339-268A-14	Sequence 14, Appl1
842	28	53.8	491	2	US-09-248-796A-15886	Sequence 15886, A	915	28	53.8	649	2	US-09-252-991A-25736	Sequence 25736, A
843	28	53.8	501	2	US-09-902-540-12135	Sequence 12135, A	916	28	53.8	651	2	US-09-107-133-2845	Sequence 2845, Ap
844	28	53.8	501	2	US-09-248-796A-15114	Sequence 15114, A	917	28	53.8	652	2	US-08-528-026C-4	Sequence 4, Appl1
845	28	53.8	503	2	US-10-037-417-104	Sequence 104, App	918	28	53.8	652	2	US-09-632-538C-36	Sequence 36, Appl1
846	28	53.8	506	1	US-08-929-501-2	Sequence 2, Appl1	919	28	53.8	657	2	US-09-300-909-16	Sequence 16, Appl1
847	28	53.8	506	2	US-09-140-177-2	Sequence 2, Appl1	920	28	53.8	673	1	US-08-455-073A-6	Sequence 6, Appl1
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851	28	53.8	509	2	US-09-902-540-11469	Sequence 11469, A	924	28	53.8	709	2	US-09-736-457-335	Sequence 335, App
852	28	53.8	514	2	US-09-107-532A-4411	Sequence 4411, Ap	925	28	53.8	709	2	US-09-614-1248-335	Sequence 335, App
853	28	53.8	518	2	US-10-104-047-3059	Sequence 3059, Ap	926	28	53.8	709	2	US-09-671-325-335	Sequence 335, App
854	28	53.8	526	2	US-09-487-558B-362	Sequence 362, App	927	28	53.8	709	2	US-09-589-184-335	Sequence 335, App
855	28	53.8	530	2	US-09-134-000C-5070	Sequence 5070, Ap	928	28	53.8	709	2	US-09-658-824-335	Sequence 335, App
856	28	53.8	537	2	US-09-252-991A-31581	Sequence 31581, A	929	28	53.8	709	2	US-10-017-754-335	Sequence 335, App
857	28	53.8	539	2	US-09-602-787A-196	Sequence 196, App	930	28	53.8	709	2	US-09-651-563-335	Sequence 335, App
858	28	53.8	539	2	US-09-605-703B-2396	Sequence 2396, Ap	931	28	53.8	709	2	US-09-519-642-335	Sequence 335, App
859	28	53.8	540	2	US-09-914-259-10	Sequence 30, Appl1	932	28	53.8	715	2	US-10-101-464A-924	Sequence 924, App
860	28	53.8	555	1	US-08-780-835B-2	Sequence 2, Appl1	933	28	53.8	746	2	US-09-949-016-10964	Sequence 10964, A
861	28	53.8	555	1	US-09-303-268-2	Sequence 2, Appl1	934	28	53.8	755	2	US-09-583-110-3807	Sequence 3807, Ap
862	28	53.8	555	2	US-09-116-049-2	Sequence 2, Appl1	935	28	53.8	760	2	US-09-107-433-3407	Sequence 3407, Ap
863	28	53.8	555	2	US-09-884-363-2	Sequence 2, Appl1	936	28	53.8	763	2	US-10-104-047-3340	Sequence 3340, Ap
864	28	53.8	555	2	US-09-328-925-47	Sequence 47, Appl1	937	28	53.8	788	2	US-09-733-643B-14	Sequence 14, Appl1
865	28	53.8	561	2	US-09-252-991A-24244	Sequence 24244, A	938	28	53.8	790	2	US-09-543-681A-5847	Sequence 5847, Ap
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867	28	53.8	566	1	US-08-511-872-2	Sequence 8, Appl1	940	28	53.8	817	1	US-08-820-170A-28	Sequence 28, Appl1
868	28	53.8	566	2	US-09-183-861-8	Sequence 8, Appl1	941	28	53.8	817	2	US-09-055-699-9-8	Sequence 28, Appl1
869	28	53.8	566	2	US-09-022-765-8	Sequence 8, Appl1	942	28	53.8	817	2	US-09-273-565-28	Sequence 28, Appl1
870	28	53.8	566	2	US-09-551-974A-8	Sequence 8, Appl1	943	28	53.8	817	2	US-09-565-538-28	Sequence 28, Appl1
871	28	53.8	566	2	US-09-556-501A-8	Sequence 8, Appl1	944	28	53.8	817	2	US-09-661-468-28	Sequence 28, Appl1
872	28	53.8	566	2	US-09-639-206A-8	Sequence 8, Appl1	945	28	53.8	817	2	US-09-976-165-28	Sequence 28, Appl1
873	28	53.8	566	2	US-09-874-923-8	Sequence 8, Appl1	946	28	53.8	817	2	US-08-976-165-28	Sequence 28, Appl1
874	28	53.8	566	2	US-09-798-841-8	Sequence 8, Appl1	947	28	53.8	817	2	US-08-820-170A-31	Sequence 31, Appl1
875	28	53.8	566	2	US-09-489-039A-9055	Sequence 9055, Ap	948	28	53.8	817	2	US-09-055-699-9-8	Sequence 28, Appl1
876	28	53.8	569	2	US-09-902-540-12184	Sequence 12184, A	949	28	53.8	829	1	US-09-273-565-21	Sequence 31, Appl1
877	28	53.8	575	2	US-09-107-532A-3910	Sequence 3910, Ap	950	28	53.8	829	2	US-09-565-538-11	Sequence 31, Appl1
878	28	53.8	578	2	US-10-339-268A-78	Sequence 78, Appl1	951	28	53.8	829	2	US-09-661-468-11	Sequence 31, Appl1
879	28	53.8	583	2	US-09-489-039A-13918	Sequence 13918, A	952	28	53.8	829	2	US-09-976-165-21	Sequence 31, Appl1
880	28	53.8	589	2	US-09-252-991A-32979	Sequence 32979, A	953	28	53.8	829	2	US-09-489-039A-13773	Sequence 13773, A
881	28	53.8	590	1	US-08-929-501-12	Sequence 12, Appl1	954	28	53.8	848	2	US-09-949-016-819	Sequence 8, Appl1
882	28	53.8	590	2	US-09-140-177-12	Sequence 12, Appl1	955	28	53.8	848	2	US-08-386-727-8	Sequence 8, Appl1
883	28	53.8	590	2	US-09-397-879-12	Sequence 12, Appl1	956	28	53.8	848	2	US-08-600-452A-8	Sequence 8, Appl1
884	28	53.8	591	2	US-09-199-290-7	Sequence 7, Appl1	957	28	53.8	865	1	US-08-451-755A-2	Sequence 2, Appl1
885	28	53.8	591	2	US-09-821-616-7	Sequence 7, Appl1	958	28	53.8	865	1	US-08-859-910-2	Sequence 2, Appl1
886	28	53.8	599	2	US-09-746-885A-59	Sequence 59, Appl1	959	28	53.8	865	1	US-09-134-001C-3032	Sequence 3032, Ap
887	28	53.8	599	2	US-10-719-885-59	Sequence 59, Appl1	960	28	53.8	888	2	US-09-514-436-4	Sequence 4, Appl1
888	28	53.8	606	2	US-09-248-796A-17830	Sequence 17830, A	961	28	53.8	888	2	US-10-014-436-4	Sequence 4, Appl1
889	28	53.8	618	2	US-09-199-290-34	Sequence 34, Appl1	962	28	53.8	893	2	US-09-949-016-10324	Sequence 10324, A
890	28	53.8	618	2	US-09-360-545-65	Sequence 65, Appl1	963	28	53.8	893	2	US-09-540-236-3026	Sequence 3026, Ap
891	28	53.8	621	2	US-09-821-616-34	Sequence 34, Appl1	964	28	53.8	915	2	US-08-451-755A-2	Sequence 2, Appl1
892	28	53.8	621	1	US-08-455-073A-4	Sequence 4, Appl1	965	28	53.8	920	1	US-08-859-910-2	Sequence 2, Appl1
893	28	53.8	625	2	US-09-949-016-11361	Sequence 11361, A	966	28	53.8	926	2	US-08-953-040-2	Sequence 2, Appl1
894	28	53.8	629	2	US-09-300-909-19	Sequence 19, Appl1	967	28	53.8	930	2	US-09-583-110-1208	Sequence 1208, Ap
895	28	53.8	632	2	US-09-919-497-75	Sequence 75, Appl1	968	28	53.8	930	2	US-09-949-016-1286	Sequence 7286, Ap
896	28	53.8	634	2	US-09-602-787A-80	Sequence 80, App	969	28	53.8	934	2	PCT-US94-05905-22	Sequence 22, Appl1
897	28	53.8	636	2	US-08-737-752A-2	Sequence 2, Appl1	970	28	53.8	936	4	US-08-906-468-2	Sequence 4543, Ap
898	28	53.8	636	2	US-09-807-063-5	Sequence 5, Appl1	971	28	53.8	938	1	US-09-107-433-4543	Sequence 20, Appl1
899	28	53.8	636	2	US-09-949-016-10378	Sequence 10378, A	972	28	53.8	939	4	PCT-US94-05905-20	Sequence 10641, A
900	28	53.8	636	2	US-09-843-007A-2	Sequence 2, Appl1	973	28	53.8	943	2	US-09-902-540-10641	Sequence 10641, A
901	28	53.8	642	2	US-09-583-110-3809	Sequence 3809, Ap	974	28	53.8	944	2	US-09-543-661A-6154	Sequence 6154, Ap
902	28	53.8	645	2	US-09-252-991A-22095	Sequence 22095, A	975	28	53.8				
903	28	53.8	646	2	US-09-300-909-14	Sequence 14, Appl1	976	28	53.8				

977 28 53.8 947 2 US-09-252-991A-21398 Sequence 21398, A
978 28 53.8 952 2 US-09-328-352-5611 Sequence 5611, Ap
979 28 53.8 957 2 US-09-489-039A-8671 Sequence 8671, Ap
980 28 53.8 966 2 US-09-502-540-14084 Sequence 14084, A
981 28 53.8 993 1 US-08-468-557-2 Sequence 2, Appl1
982 28 53.8 1042 2 US-09-543-681A-4347 Sequence 4347, Ap
983 28 53.8 1053 2 US-09-502-540-12126 Sequence 12126, A
984 28 53.8 1105 2 US-09-540-236-3299 Sequence 3299, Ap
985 28 53.8 1149 2 US-09-543-681A-7306 Sequence 7306, Ap
986 28 53.8 1167 2 US-08-857-076-48 Sequence 48, Appl
987 28 53.8 1167 2 US-09-205-658-48 Sequence 48, Appl
988 28 53.8 1195 2 US-09-302-540-11967 Sequence 11967, A
989 28 53.8 1261 2 US-09-208-742-4 Sequence 4, Appl1
990 28 53.8 1261 2 US-09-332-295-2 Sequence 2, Appl1
991 28 53.8 1261 2 US-09-709-979-2 Sequence 2, Appl1
992 28 53.8 1261 2 US-10-147-268-2 Sequence 2, Appl1
993 28 53.8 1297 2 US-09-540-245A-17 Sequence 17, Appl
994 28 53.8 1297 2 US-10-289-776-17 Sequence 17, Appl
995 28 53.8 1337 2 US-10-037-417-70 Sequence 70, Appl
996 28 53.8 1375 2 US-08-665-259-26 Sequence 26, Appl
997 28 53.8 1375 2 US-08-762-500-26 Sequence 26, Appl
998 28 53.8 1440 2 US-09-357-251-37 Sequence 37, Appl
999 28 53.8 1512 2 US-09-443-184-48 Sequence 48, Appl
1000 28 53.8 1551 2 US-09-231-899-73 Sequence 73, Appl

ALIGNMENTS

RESULT 1
US-08-159-339A-219
Sequence 219, Application US/08159339A
Patent No. 6037135
GENERAL INFORMATION:
APPLICANT: Kubo, Ralph T.
APPLICANT: Grey, Howard M.
APPLICANT: Sette, Alessandro
APPLICANT: Cells, Esteban
TITLE OF INVENTION: HLA Binding peptides and Their
NUMBER OF SEQUENCES: 1254
CORRESPONDENCE ADDRESSES:
ADDRESSEE: Townsend and Townsend and Crew LLP
STREET: Two Embarcadero Center, Eighth Floor
CITY: San Francisco
STATE: CA
COUNTRY: USA
ZIP: 94111-3834
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSeq for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/159,339A
FILING DATE: 29-NOV-1993
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/926,666
FILING DATE: 07-AUG-1992
APPLICATION NUMBER: US 08/027,746
FILING DATE: 05-MAR-1993
APPLICATION NUMBER: US 08/103,396
FILING DATE: 06-AUG-1993
ATTORNEY/AGENT INFORMATION:
NAME: Weber, Ellen Lauver
REGISTRATION NUMBER: 32,762
REFERENCE/DOCKET NUMBER: 018623-005030US
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 576-0200
TELEFAX: (415) 576-0300
TELEX:
INFORMATION FOR SEQ ID NO: 219:

SEQUENCE CHARACTERISTICS:
LENGTH: 9 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-08-159-339A-219

Query Match 100.0%; Score 52; DB 2; Length 9;
Best Local Similarity 100.0%; Pred. No. 4.6e+05;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 YRDGNPYAV 9
Db 1 YRDGNPYAV 9

RESULT 2
US-09-701-080C-18
Sequence 18, Application US/09701080C
Patent No. 6864054
GENERAL INFORMATION:
APPLICANT: INSTITUTE OF MOLECULAR AND CELL BIOLOGY
TITLE OF INVENTION: POLYPEPTIDES FROM CREB BINDING PROTEIN AND RELATED PROTEIN P300 FK
FILE REFERENCE: N73477C GCW
CURRENT APPLICATION NUMBER: US/09/701,080C
CURRENT FILING DATE: 2001-02-27
PRIOR APPLICATION NUMBER: GB 9811303.8
PRIOR FILING DATE: 1998-05-26
PRIOR APPLICATION NUMBER: GB 9900157.0
PRIOR FILING DATE: 1999-01-05
NUMBER OF SEQ ID NOS: 36
SOFTWARE: Patentin Ver. 2.1
SEQ ID NO 18
LENGTH: 151
TYPE: PRT
ORGANISM: Human papillomavirus
US-09-701-080C-18

Query Match 100.0%; Score 52; DB 2; Length 151;
Best Local Similarity 100.0%; Pred. No. 0.033;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 YRDGNPYAV 9
Db 54 YRDGNPYAV 62

RESULT 3
US-09-980-523A-2
Sequence 2, Application US/09980523A
Patent No. 6783763
GENERAL INFORMATION:
APPLICANT: CHOPPIN, JEANNINE
APPLICANT: BOURGAULT VILLADA, ISABELLE
APPLICANT: GUILLET, JEAN-GERARD
APPLICANT: CONNAN, FRANCINE
APPLICANT: FERRIES, ESTELLE
TITLE OF INVENTION: POLYPEPTIC PROTEIN FRAGMENTS OF THE E6 AND E7
TITLE OF INVENTION: PROTEINS OF HPV, THEIR PRODUCTION AND THEIR USE
FILE REFERENCE: WO/91/01053
CURRENT APPLICATION NUMBER: US/09/980,523A
CURRENT FILING DATE: 2002-04-29
PRIOR APPLICATION NUMBER: PCT/FR00/01513
PRIOR FILING DATE: 2000-05-31
PRIOR APPLICATION NUMBER: FR 99/07012
PRIOR FILING DATE: 1999-06-03
NUMBER OF SEQ ID NOS: 24
SOFTWARE: Patentin Ver. 2.1
SEQ ID NO 2
LENGTH: 158

TYPE: PRT
ORGANISM: Human Papillomavirus
US-09-980-523A-2

Query Match 100.0%; Score 52; DB 2; Length 158;
Best Local Similarity 100.0%; Pred. No. 0.036;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 YRDGNPYAV 9
|||||
Db 61 YRDGNPYAV 69

RESULT 4
US-08-316-239B-3
Sequence 3, Application US/08316239B.
Patent No. 5679509
GENERAL INFORMATION:
APPLICANT: Wheeler, Cosette M.
TITLE OF INVENTION: Methods and a Diagnostic Aid for
TITLE OF INVENTION: Distinguishing a Subset of HPV that is Associated with an
TITLE OF INVENTION: Increased Risk of Developing Cervical Dysplasia and
TITLE OF INVENTION: Cervical Cancer
NUMBER OF SEQUENCES: 4
CORRESPONDENCE ADDRESSES:
ADDRESSEE: Jagtiani & Associates
STREET: 6126 Rocky Way Court
CITY: Centreville
STATE: VA
COUNTRY: USA
ZIP: 20120-3400
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/316,239B
FILING DATE: 30-SEP-1994
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Jagtiani, Ajay A.
REGISTRATION NUMBER: 35,205
REFERENCE/DOCKET NUMBER: UNME-0001
TELECOMMUNICATION INFORMATION:
TELEPHONE: (703) 817-9453
TELEFAX: (703) 803-9387
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 162 amino acids
TYPE: amino acid
STRANDEDNESS: not relevant
TOPOLOGY: not relevant
MOLECULE TYPE: protein
HYPOTHEICAL: NO
US-08-316-239B-3

Query Match 100.0%; Score 52; DB 1; Length 162;
Best Local Similarity 100.0%; Pred. No. 0.036;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 YRDGNPYAV 9
|||||
Db 61 YRDGNPYAV 69

RESULT 5
US-08-316-239B-4
Sequence 4, Application US/08316239B
Patent No. 5679509
GENERAL INFORMATION:
APPLICANT: Wheeler, Cosette M.

APPLICANT: Parmenter, Cheryl A.
TITLE OF INVENTION: Methods and a Diagnostic Aid for
TITLE OF INVENTION: Distinguishing a Subset of HPV that is Associated with an
TITLE OF INVENTION: Increased Risk of Developing Cervical Dysplasia and
TITLE OF INVENTION: Cervical Cancer
NUMBER OF SEQUENCES: 4
CORRESPONDENCE ADDRESSES:
ADDRESSEE: Jagtiani & Associates
STREET: 6126 Rocky Way Court
CITY: Centreville
STATE: VA
COUNTRY: USA
ZIP: 20120-3400
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/316,239B
FILING DATE: 30-SEP-1994
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Jagtiani, Ajay A.
REGISTRATION NUMBER: 35,205
REFERENCE/DOCKET NUMBER: UNME-0001
TELECOMMUNICATION INFORMATION:
TELEPHONE: (703) 817-9453
TELEFAX: (703) 803-9387
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 162 amino acids
TYPE: amino acid
STRANDEDNESS: not relevant
TOPOLOGY: not relevant
MOLECULE TYPE: protein
HYPOTHEICAL: NO
US-08-316-239B-4

Query Match 100.0%; Score 52; DB 1; Length 162;
Best Local Similarity 100.0%; Pred. No. 0.036;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 YRDGNPYAV 9
|||||
Db 61 YRDGNPYAV 69

RESULT 6
US-08-860-165-14
Sequence 14, Application US/08860165A
Patent No. 6004557
GENERAL INFORMATION:
APPLICANT: EDWARDS, Stirling John
APPLICANT: COX, John Cooper
APPLICANT: WEBB, Elizabeth Ann
APPLICANT: FRAZER, Ian
TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
FILE REFERENCE: 17227/1130
CURRENT APPLICATION NUMBER: US/08/860,165A
CURRENT FILING DATE: 1997-09-22
EARLIER APPLICATION NUMBER: PCT/AU95/00868
EARLIER FILING DATE: 1995-12-20
EARLIER APPLICATION NUMBER: AU PNO157
EARLIER FILING DATE: 1994-12-20
NUMBER OF SEQ ID NOS: 15
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 14
LENGTH: 172
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Gene Fusion

US-08-860-165-14

Query Match 100.0%; Score 52; DB 2; Length 172;
Best Local Similarity 100.0%; Pred. No. 0.038;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 YRDGNPYAV 9
Db 130 YRDGNPYAV 138

RESULT 7

US-09-359-382-14
Sequence 14, Application US/09359382
Patent No. 6306397
GENERAL INFORMATION:
APPLICANT: EDWARDS, Stirling John
APPLICANT: COX, John Cooper
APPLICANT: WEBB, Elizabeth Ann
APPLICANT: FRAZER, Ian
TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
FILE REFERENCE: 017227/0148
CURRENT APPLICATION NUMBER: US/09/359,382
CURRENT FILING DATE: 1999-07-23
EARLIER APPLICATION NUMBER: US 08/860,165
EARLIER FILING DATE: 1997-09-22
EARLIER APPLICATION NUMBER: PCT/AU95/00868
EARLIER FILING DATE: 1995-12-20
EARLIER APPLICATION NUMBER: AU PN0157/94
EARLIER FILING DATE: 1994-12-20
NUMBER OF SEQ ID NOS: 27
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 14
LENGTH: 172
TYPE: PRT
ORGANISM: Human papillomavirus type 16
US-09-359-382-14

Query Match 100.0%; Score 52; DB 2; Length 172;
Best Local Similarity 100.0%; Pred. No. 0.038;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 YRDGNPYAV 9
Db 130 YRDGNPYAV 138

RESULT 8

US-09-462-993-1
Sequence 1, Application US/09462993
Patent No. 6884786
GENERAL INFORMATION:
APPLICANT: KIENY, Marie-Paule
APPLICANT: BALLOUL, Jean-Marc
APPLICANT: BIZOUARRE, Nadine
TITLE OF INVENTION: ANTITUMORAL COMPOSITION BASED ON IMMUNOGENIC
TITLE OF INVENTION: POLYPEPTIDE WITH MODIFIED CELL LOCATION
FILE REFERENCE: 017753-122
CURRENT APPLICATION NUMBER: US/09/462,993
CURRENT FILING DATE: 2000-04-17
PRIOR APPLICATION NUMBER: PCT/FR98/01576
PRIOR FILING DATE: 1998-07-17
PRIOR APPLICATION NUMBER: FR 97/09152
PRIOR FILING DATE: 1997-07-18
NUMBER OF SEQ ID NOS: 23
SOFTWARE: PatentIn Ver. 2.2
SEQ ID NO 1
LENGTH: 243
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Derived from
OTHER INFORMATION: human papillomavirus, strain HPV-16, E6 protein

OTHER INFORMATION: fused F protein signals, clone E6*TMF.
US-09-462-993-1

Query Match 100.0%; Score 52; DB 2; Length 243;
Best Local Similarity 100.0%; Pred. No. 0.056;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 YRDGNPYAV 9
Db 89 YRDGNPYAV 97

RESULT 9

US-08-860-165-10
Sequence 10, Application US/08860165A
Patent No. 6004557
GENERAL INFORMATION:
APPLICANT: EDWARDS, Stirling John
APPLICANT: COX, John Cooper
APPLICANT: WEBB, Elizabeth Ann
APPLICANT: FRAZER, Ian
TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
FILE REFERENCE: 17227/130
CURRENT APPLICATION NUMBER: US/08/860,165A
CURRENT FILING DATE: 1997-09-22
EARLIER APPLICATION NUMBER: PCT/AU95/00868
EARLIER FILING DATE: 1995-12-20
EARLIER APPLICATION NUMBER: AU PN0157
EARLIER FILING DATE: 1994-12-20
NUMBER OF SEQ ID NOS: 15
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 10
LENGTH: 266
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Gene Fusion
US-08-860-165-10

Query Match 100.0%; Score 52; DB 2; Length 266;
Best Local Similarity 100.0%; Pred. No. 0.062;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 YRDGNPYAV 9
Db 61 YRDGNPYAV 69

RESULT 10

US-09-359-382-10
Sequence 10, Application US/09359382
Patent No. 6306397
GENERAL INFORMATION:
APPLICANT: EDWARDS, Stirling John
APPLICANT: COX, John Cooper
APPLICANT: WEBB, Elizabeth Ann
APPLICANT: FRAZER, Ian
TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
FILE REFERENCE: 017227/0148
CURRENT APPLICATION NUMBER: US/09/359,382
CURRENT FILING DATE: 1999-07-23
EARLIER APPLICATION NUMBER: US 08/860,165
EARLIER FILING DATE: 1997-09-22
EARLIER APPLICATION NUMBER: PCT/AU95/00868
EARLIER FILING DATE: 1995-12-20
EARLIER APPLICATION NUMBER: AU PN0157/94
EARLIER FILING DATE: 1994-12-20
NUMBER OF SEQ ID NOS: 27
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 10
LENGTH: 266
TYPE: PRT
ORGANISM: Human papillomavirus type 16

US-09-359-382-10

Query Match 100.0%; Score 52; DB 2; Length 266;
Best Local Similarity 100.0%; Pred. No. 0.062;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 YRDGNPYAV 9
|||||
Db 61 YRDGNPYAV 69

RESULT 11

US-09-367-309A-1
Sequence 1, Application US/09367309A
Patent No. 6428807
GENERAL INFORMATION:
APPLICANT: MACFARLAN, RODERICK I.
APPLICANT: MALLIAROS, JIM
TITLE OF INVENTION: CHELATING IMMUNOSTIMULATING COMPLEXES
FILE REFERENCE: 017227/0149
CURRENT APPLICATION NUMBER: US/09/367,309A
CURRENT FILING DATE: 1999-08-11
PRIOR APPLICATION NUMBER: PCT/AU98/00080
PRIOR FILING DATE: 1998-02-13
PRIOR APPLICATION NUMBER: AU PO 5178
PRIOR FILING DATE: 1997-02-19
NUMBER OF SEQ ID NOS: 6
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 1
LENGTH: 266
TYPE: PRT
ORGANISM: Human papillomavirus type 16
US-09-367-309A-1

Query Match 100.0%; Score 52; DB 2; Length 266;
Best Local Similarity 100.0%; Pred. No. 0.062;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 YRDGNPYAV 9
|||||
Db 61 YRDGNPYAV 69

RESULT 12

US-09-485-885-4
Sequence 4, Application US/09485885
Patent No. 6342224
GENERAL INFORMATION:
APPLICANT: Bruck, Claudine
APPLICANT: Cabezon Silva, Teresa
APPLICANT: Delisse, Anne-Marie Eva Fernande
APPLICANT: Gerard, Catherine Marie Ghislaine
APPLICANT: Lombardo-Bencheikh, Angela
TITLE OF INVENTION: Vaccine
FILE REFERENCE: B45107
CURRENT APPLICATION NUMBER: US/09/485,885
CURRENT FILING DATE: 2000-02-18
PRIOR APPLICATION NUMBER: PCT/EP98/05285
PRIOR FILING DATE: 1998-08-17
PRIOR APPLICATION NUMBER: GB 9717953.5
PRIOR FILING DATE: 1997-08-22
NUMBER OF SEQ ID NOS: 23
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 4
LENGTH: 273
TYPE: PRT
ORGANISM: Homo sapien
US-09-485-885-4

Query Match 100.0%; Score 52; DB 2; Length 273;
Best Local Similarity 100.0%; Pred. No. 0.064;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 YRDGNPYAV 9
|||||
Db 167 YRDGNPYAV 175

RESULT 13

US-09-485-885-10
Sequence 10, Application US/09485885
Patent No. 6342224
GENERAL INFORMATION:
APPLICANT: Bruck, Claudine
APPLICANT: Cabezon Silva, Teresa
APPLICANT: Delisse, Anne-Marie Eva Fernande
APPLICANT: Gerard, Catherine Marie Ghislaine
APPLICANT: Lombardo-Bencheikh, Angela
TITLE OF INVENTION: Vaccine
FILE REFERENCE: B45107
CURRENT APPLICATION NUMBER: US/09/485,885
CURRENT FILING DATE: 2000-02-18
PRIOR APPLICATION NUMBER: PCT/EP98/05285
PRIOR FILING DATE: 1998-08-17
PRIOR APPLICATION NUMBER: GB 9717953.5
PRIOR FILING DATE: 1997-08-22
NUMBER OF SEQ ID NOS: 23
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 10
LENGTH: 292
TYPE: PRT
ORGANISM: Homo sapien
US-09-485-885-10

Query Match 100.0%; Score 52; DB 2; Length 292;
Best Local Similarity 100.0%; Pred. No. 0.065;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 YRDGNPYAV 9
|||||
Db 186 YRDGNPYAV 194

RESULT 14

US-09-485-885-6
Sequence 6, Application US/09485885
Patent No. 6342224
GENERAL INFORMATION:
APPLICANT: Bruck, Claudine
APPLICANT: Cabezon Silva, Teresa
APPLICANT: Delisse, Anne-Marie Eva Fernande
APPLICANT: Gerard, Catherine Marie Ghislaine
APPLICANT: Lombardo-Bencheikh, Angela
TITLE OF INVENTION: Vaccine
FILE REFERENCE: B45107
CURRENT APPLICATION NUMBER: US/09/485,885
CURRENT FILING DATE: 2000-02-18
PRIOR APPLICATION NUMBER: PCT/EP98/05285
PRIOR FILING DATE: 1998-08-17
PRIOR APPLICATION NUMBER: GB 9717953.5
PRIOR FILING DATE: 1997-08-22
NUMBER OF SEQ ID NOS: 23
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 6
LENGTH: 371
TYPE: PRT
ORGANISM: Homo sapien
US-09-485-885-6

Query Match 100.0%; Score 52; DB 2; Length 371;
Best Local Similarity 100.0%; Pred. No. 0.091;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 YRDGNPYAV 9
|||||
Db 167 YRDGNPYAV 175

RESULT 15
US-09-485-885-14
; Sequence 14, Application US/09485885
; Patent No. 6342224
; GENERAL INFORMATION:
; APPLICANT: Bruck, Claudine
; APPLICANT: Caberon Silva, Teresa
; APPLICANT: Delisse, Anne-Marie Eva Fernande
; APPLICANT: Gerard, Catherine Marie Ghislaine
; APPLICANT: Lombardo-Benchelkh, Angela
; TITLE OF INVENTION: Vaccine
; FILE REFERENCE: B45107
; CURRENT APPLICATION NUMBER: US/09/485, 885
; CURRENT FILING DATE: 2000-02-18
; PRIOR APPLICATION NUMBER: PCT/EP98/05285
; PRIOR FILING DATE: 1998-08-17
; PRIOR APPLICATION NUMBER: GB 9717953.5
; PRIOR FILING DATE: 1997-08-22
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 14
; LENGTH: 390
; TYPE: PRT
; ORGANISM: Homo sapien
US-09-485-885-14

Query Match 100.0%; Score 52; DB 2; Length 390;
Best Local Similarity 100.0%; Pred. No. 0.096;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 YRDGNPYAV 9
DB 186 YRDGNPYAV 194

RESULT 16
US-10-612-818-4
; Sequence 4, Application US/10612818
; Patent No. 6933123
; GENERAL INFORMATION:
; APPLICANT: Impact Diagnostics
; TITLE OF INVENTION: Peptides from the E2, E6 and E7 Proteins of Human Papillomavirus
; TITLE OF INVENTION: 18 for Detecting and/or Diagnosing Cervical and Other Human Papil
; FILE REFERENCE: 3352-2-2
; CURRENT APPLICATION NUMBER: US/10/612, 818
; CURRENT FILING DATE: 2003-07-01
; PRIOR APPLICATION NUMBER: US 60/394,172
; PRIOR FILING DATE: 2002-07-02
; PRIOR APPLICATION NUMBER: US 09/828,645
; PRIOR FILING DATE: 2001-04-05
; NUMBER OF SEQ ID NOS: 8
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 4
; LENGTH: 22
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Derived from the E6 early coding region of HPV 16
US-10-612-818-4

Query Match 86.5%; Score 45; DB 2; Length 22;
Best Local Similarity 100.0%; Pred. No. 0.076;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 RDGNPYAV 9
DB 1 RDGNPYAV 8

RESULT 17
US-08-159-339A-133
; Sequence 133, Application US/08159339A
; Patent No. 6037135
; GENERAL INFORMATION:
; APPLICANT: Kubo, Ralph T.
; APPLICANT: Grey, Howard M.
; APPLICANT: Sette, Alessandro
; APPLICANT: Celis, Esben
; TITLE OF INVENTION: HLA Binding peptides and Their
; NUMBER OF SEQUENCES: 1254
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Townsend and Townsend and Crew LLP
; STREET: Two Embarcadero Center, Eighth Floor
; CITY: San Francisco
; STATE: CA
; COUNTRY: USA
; ZIP: 94111-3834
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/159,339A
; FILING DATE: 29-NOV-1993
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/926,666
; FILING DATE: 07-AUG-1992
; APPLICATION NUMBER: US 08/027,746
; FILING DATE: 05-MAR-1993
; APPLICATION NUMBER: US 08/103,396
; FILING DATE: 06-AUG-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Weber, Ellen Lauver
; REGISTRATION NUMBER: 32,762
; REFERENCE/DOCKET NUMBER: 018623-005030US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (415) 576-0200
; TELEFAX: (415) 576-0300
; TELEX:
; INFORMATION FOR SEQ ID NO: 133:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 9 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-08-159-339A-133

Query Match 84.6%; Score 44; DB 2; Length 9;
Best Local Similarity 100.0%; Pred. No. 4.6e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 YRDGNPY 7
DB 3 YRDGNPY 9

RESULT 18
US-09-980-523A-6
; Sequence 6, Application US/09980523A
; Patent No. 6783763
; GENERAL INFORMATION:
; APPLICANT: CHOPIN, JEANNINE
; APPLICANT: BOURGAULT VILLADA, ISABELLE
; APPLICANT: GUILLET, JEAN-GERARD
; APPLICANT: CONNAN, FRANCES
; APPLICANT: FERRIES, ESTELLE
; TITLE OF INVENTION: POLYPEPTIC PROTEIN FRAGMENTS OF THE E6 AND E7
; TITLE OF INVENTION: PROTEINS OF HPV, THEIR PRODUCTION AND THEIR USE

TITLE OF INVENTION: PARTICULARLY IN VACCINATION
FILE REFERENCE: WOBI AO INS
CURRENT APPLICATION NUMBER: US/09/980,523A
PRIOR FILING DATE: 2002-04-29
CURRENT APPLICATION NUMBER: PCT/FR00/01513
PRIOR FILING DATE: 2000-05-31
PRIOR APPLICATION NUMBER: FR 99/07012
PRIOR FILING DATE: 1999-06-03
NUMBER OF SEQ ID NOS: 24
SOFTWARE: Patentin Ver. 2.1
SEQ ID NO 6
LENGTH: 22
TYPE: PRT
ORGANISM: Human Papillomavirus
US-09-980-523A-6

Query Match 84.6%; Score 44; DB 2; Length 22;
Best Local Similarity 100.0%; Pred. No. 0.12;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 YRDGNPY 7
Db 16 YRDGNPY 22

RESULT 19
US-09-601-729-276
Sequence 276, Application US/09601729
Patent No. 6683052
GENERAL INFORMATION:
APPLICANT: THIAM, KADER
APPLICANT: AURIAULT, CLAUDE
APPLICANT: GRAS-MASSE, HELENE
APPLICANT: LOING, ESTELLE
APPLICANT: VERMARDE, CLAUDE
APPLICANT: GUILLET, JEAN GERARD
TITLE OF INVENTION: LIPOPEPTIDES CONTAINING AN INTERFERON FRAGMENT AND USES
FILE REFERENCE: USB-97-AV-IN
CURRENT APPLICATION NUMBER: US/09/601,729
CURRENT FILING DATE: 2000-11-20
PRIOR APPLICATION NUMBER: PCT/FR99/00259
PRIOR FILING DATE: 1999-02-05
PRIOR APPLICATION NUMBER: 98 01439
PRIOR FILING DATE: 1998-02-06
NUMBER OF SEQ ID NOS: 281
SOFTWARE: Patentin Ver. 2.1
SEQ ID NO 276
LENGTH: 23
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Synthetic
US-09-601-729-276

Query Match 84.6%; Score 44; DB 2; Length 23;
Best Local Similarity 100.0%; Pred. No. 0.12;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 YRDGNPY 7
Db 17 YRDGNPY 23

RESULT 20
US-09-574-749B-42
Sequence 42, Application US/09574749B
Patent No. 6548299
GENERAL INFORMATION:
APPLICANT: ROSENZWEIG, Michael
APPLICANT: PYRETT, Mark J.
APPLICANT: SCADDEW, David T.

APPLICANT: POZNANSKY, Mark C.
TITLE OF INVENTION: LYMPHOID TISSUE-SPECIFIC CELL PRODUCTION
TITLE OF INVENTION: FROM HEMATOPOIETIC PROGENITOR CELLS IN THREE-DIMENSIONAL
TITLE OF INVENTION: DEVICES
FILE REFERENCE: C1005/7012/KA/ERG
CURRENT APPLICATION NUMBER: US/09/574,749B
PRIOR FILING DATE: 2002-05-31
CURRENT APPLICATION NUMBER: US 60/107,972
PRIOR FILING DATE: 1998-11-12
PRIOR APPLICATION NUMBER: PCT/US99/26795
PRIOR FILING DATE: 1999-11-12
PRIOR APPLICATION NUMBER: US 09/524,749
PRIOR FILING DATE: 2000-05-18
NUMBER OF SEQ ID NOS: 58
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 42
LENGTH: 9
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Papilloma source
US-09-574-749B-42

Query Match 78.8%; Score 41; DB 2; Length 9;
Best Local Similarity 100.0%; Pred. No. 4.6e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 RDGNPYA 8
Db 3 RDGNPYA 9

RESULT 21
US-08-934-915-162
Sequence 162, Application US/08934915
Patent No. 5932412
GENERAL INFORMATION:
APPLICANT: DILLNER, JOAKIM
APPLICANT: DILLNER, LENA
APPLICANT: CHENG, HWEI-MING
TITLE OF INVENTION: SYNTHETIC PEPTIDES OF HUMAN
TITLE OF INVENTION: PAPILLOMAVIRUS 1, 5, 6, 8,
TITLE OF INVENTION: 11, 16, 18, 31, 33 AND 56,
TITLE OF INVENTION: USEFUL IN IMMUNOASSAY FOR
NUMBER OF SEQUENCES: 193
CORRESPONDENCE ADDRESS:
ADDRESSEE: MASON & ASSOCIATES, P.A.
STREET: 1757 U.S. HWY. 19 NORTH, SUITE 500
CITY: CLEARWATER
STATE: FLORIDA
COUNTRY: U.S.A.
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: Windows 3.0
SOFTWARE: Microsoft Word 6.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/934,915
FILING DATE: 22-SEP-1997
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/949,836
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: LOUISE A. Foulch
REGISTRATION NUMBER: 37,133
REFERENCE/DOCKET NUMBER: 1946.6
TELECOMMUNICATION INFORMATION:
TELEPHONE: 813-538-3800
TELEFAX: 813-538-3820
TELEX:
INFORMATION FOR SEQ ID NO: 162:

SEQUENCE CHARACTERISTICS:
LENGTH: 20 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-08-934-915-162

Query Match 76.9%; Score 40; DB 1; Length 20;
Best Local Similarity 87.5%; Pred. No. 0.58;
Matches 7; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 2 RDGNPYAV 9
|:|||||
DB 1 RGNPNYAV 8

RESULT 22
US-09-710-279-2428
Sequence 2428, Application US/09710279
Patent No. 6703492
GENERAL INFORMATION:
APPLICANT: KIMBERLY, WILLIAM JOHN
TITLE OF INVENTION: STAPHYLOCOCCUS EPIDERMIDIS NUCLEIC ACIDS AND PROTEINS
FILE REFERENCE: PU3480US
CURRENT APPLICATION NUMBER: US/09/710,279
PRIOR FILING DATE: 2000-11-09
PRIOR APPLICATION NUMBER: 60/164,258
NUMBER OF SEQ ID NOS: 4472
SOFTWARE: Patent In Ver. 2.1
SEQ ID NO 2428
LENGTH: 253
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: synthetic
US-09-710-279-2428

Query Match 71.2%; Score 37; DB 2; Length 253;
Best Local Similarity 75.0%; Pred. No. 37;
Matches 6; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 YRDGNPYA 8
|:|||||
DB 85 YHDGKPYA 92

RESULT 23
US-09-134-001C-3445
Sequence 3445, Application US/09134001C
Patent No. 6380370
GENERAL INFORMATION:
APPLICANT: Lynn Doucette-Stamm et al
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO STAPHYLOCOCCUS
FILE REFERENCE: GTC-007
CURRENT APPLICATION NUMBER: US/09/134,001C
PRIOR FILING DATE: 1998-08-13
PRIOR APPLICATION NUMBER: US 60/064,964
PRIOR FILING DATE: 1997-11-08
PRIOR APPLICATION NUMBER: US 60/055,779
PRIOR FILING DATE: 1997-08-14
NUMBER OF SEQ ID NOS: 5674
SEQ ID NO 3445
LENGTH: 281
TYPE: PRT
ORGANISM: Staphylococcus epidermidis
US-09-134-001C-3445

Query Match 71.2%; Score 37; DB 2; Length 281;
Best Local Similarity 75.0%; Pred. No. 42;
Matches 6; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 YRDGNPYA 8
|:|||||
DB 113 YHDGKPYA 120

RESULT 24
US-08-111-939-12
Sequence 12, Application US/08111939
Patent No. 5460951
GENERAL INFORMATION:
APPLICANT: Kawai, Shinji
APPLICANT: Takeshita, Sunao
APPLICANT: Okazaki, Makoto
APPLICANT: Amano, Egon
TITLE OF INVENTION: Bone-Related Carboxypeptidase-Like
TITLE OF INVENTION: Protein and Process for its Production
NUMBER OF SEQUENCES: 27
CORRESPONDENCE ADDRESS:
ADDRESSER: Finnegan, Henderson, Farabow, Garrett &
ADDRESSER: Dunner
STREET: 1300 I Street, N.W.
CITY: Washington
STATE: D.C.
COUNTRY: USA
ZIP: 20005-3315
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/111,939
FILING DATE: 26-AUG-1993
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 324033/92
FILING DATE: 03-DEC-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 230029/92
FILING DATE: 28-AUG-1992
ATTORNEY/AGENT INFORMATION:
NAME: Foreman, David S.
REGISTRATION NUMBER: 33,694
REFERENCE/DOCKET NUMBER: 02481.1321-00000
TELECOMMUNICATION INFORMATION:
TELEPHONE: 202-408-4000
TELEFAX: 202-408-4000
INFORMATION FOR SEQ ID NO: 12:
SEQUENCE CHARACTERISTICS:
LENGTH: 484 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-08-111-939-12

Query Match 71.2%; Score 37; DB 1; Length 484;
Best Local Similarity 100.0%; Pred. No. 78;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 YRDGNP 6
|:|||||
DB 94 YRDGNP 99

RESULT 25
US-09-503-172A-2
Sequence 2, Application US/09503172A
Patent No. 6284510
GENERAL INFORMATION:
APPLICANT: ITO, Tetsuya
APPLICANT: FUJITA, Koki
APPLICANT: HARA, Kozo

APPLICANT: TONOCUKA, Takashi
APPLICANT: SAKANO, Yoshiyuki
TITLE OF INVENTION: BETA-FRUCTOFURANOSIDASE GENE
FILE REFERENCE: 10749-0001-0
CURRENT APPLICATION NUMBER: US/09/503,172A
CURRENT FILING DATE: 2000-02-14
PRIOR APPLICATION NUMBER: JP 160416/1999
PRIOR FILING DATE: 1999-06-08
NUMBER OF SEQ ID NOS: 9
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO: 2
LENGTH: 578
TYPE: PRT
ORGANISM: Arthrobacter sp.
US-09-503-172A-2

Query Match 71.2%; Score 37; DB 2; Length 578;
Best Local Similarity 75.0%; Pred. No. 95;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 YRDGNPYA 8
|||
Db 319 YRDGNPYA 326

RESULT 26
US-09-641-741-28
Sequence 28, Application US/09641741
Patent No. 6420155
GENERAL INFORMATION:
APPLICANT: Kerry E. Quinn
APPLICANT: Curagen Corporation
TITLE OF INVENTION: Aortic Carboxypeptidase-Like Proteins and Nucleic Acids
TITLE OF INVENTION: encoding Same
FILE REFERENCE: 15966-581
CURRENT APPLICATION NUMBER: US/09/641,741
CURRENT FILING DATE: 2000-08-18
PRIOR APPLICATION NUMBER: 60/159,613
PRIOR FILING DATE: 1999-10-14
PRIOR APPLICATION NUMBER: 60/175,534
PRIOR FILING DATE: 2000-01-12
PRIOR APPLICATION NUMBER: 60/224,086
PRIOR FILING DATE: 2000-08-09
NUMBER OF SEQ ID NOS: 32
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO: 28
LENGTH: 719
TYPE: PRT
ORGANISM: Mus musculus
US-09-641-741-28

Query Match 71.2%; Score 37; DB 2; Length 719;
Best Local Similarity 100.0%; Pred. No. 1.2e+02;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 YRDGNP 6
|||
Db 228 YRDGNP 233

RESULT 27
US-09-641-741-29
Sequence 29, Application US/09641741
Patent No. 6420155
GENERAL INFORMATION:
APPLICANT: Kerry E. Quinn
APPLICANT: Curagen Corporation
TITLE OF INVENTION: Aortic Carboxypeptidase-Like Proteins and Nucleic Acids
TITLE OF INVENTION: encoding Same
FILE REFERENCE: 15966-581
CURRENT APPLICATION NUMBER: US/09/641,741
CURRENT FILING DATE: 2000-08-18
PRIOR APPLICATION NUMBER: 60/159,613

PRIOR FILING DATE: 1999-10-14
PRIOR APPLICATION NUMBER: 60/175,534
PRIOR FILING DATE: 2000-01-12
PRIOR APPLICATION NUMBER: 60/224,086
PRIOR FILING DATE: 2000-08-09
NUMBER OF SEQ ID NOS: 32
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO: 29
LENGTH: 845
TYPE: PRT
ORGANISM: Homo sapiens
US-09-641-741-29

Query Match 71.2%; Score 37; DB 2; Length 845;
Best Local Similarity 100.0%; Pred. No. 1.5e+02;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 YRDGNP 6
|||
Db 333 YRDGNP 338

RESULT 28
US-08-111-939-2
Sequence 2, Application US/08111939
Patent No. 5460951
GENERAL INFORMATION:
APPLICANT: Kawai, Shinji
APPLICANT: Takeshita, Sunao
APPLICANT: Okazaki, Makoto
APPLICANT: Amann, Egon
TITLE OF INVENTION: Bone-Related Carboxypeptidase-Like
TITLE OF INVENTION: Protein and Process for its Production
NUMBER OF SEQUENCES: 27
CORRESPONDENCE ADDRESS:
ADDRESSEE: Finnegan, Henderson, Farabow, Garrett &
ADDRESS: Dunner
STREET: 1300 I Street, N.W.
CITY: Washington
STATE: D.C.
COUNTRY: USA
ZIP: 20005-3315
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/111,939
FILING DATE: 26-AUG-1993
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 324033/92
FILING DATE: 03-DEC-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 230029/92
FILING DATE: 28-AUG-1992
ATTORNEY/AGENT INFORMATION:
NAME: Foreman, David S.
REGISTRATION NUMBER: 33,694
REFERENCE/DOCKET NUMBER: 02481.1321-00000
TELECOMMUNICATION INFORMATION:
TELEPHONE: 202-408-4000
TELEFAX: 202-408-4000
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 1128 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-111-939-2

Query Match 71.2%; Score 37; DB 1; Length 1128;

Best Local Similarity 100.0%; Pred. No. 2e+02;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 YRDGNP 6
Db 637 YRDGNP 642

RESULT 29
US-09-641-741-30
; Sequence 30, Application US/09641741
; Patent No. 6420155
; GENERAL INFORMATION:
; APPLICANT: Kerry E. Quinn
; APPLICANT: Curaden Corporation
; TITLE OF INVENTION: Aortic Carboxypeptidase-Like Proteins and Nucleic Acids
; FILE REFERENCE: 15966-581
; CURRENT APPLICATION NUMBER: US/09/641,741
; PRIOR FILING DATE: 2000-08-18
; PRIOR APPLICATION NUMBER: 60/159,613
; PRIOR FILING DATE: 1999-10-14
; PRIOR APPLICATION NUMBER: 60/175,534
; PRIOR FILING DATE: 2000-01-12
; PRIOR APPLICATION NUMBER: 60/224,086
; PRIOR FILING DATE: 2000-08-09
; NUMBER OF SEQ ID NOS: 32
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 30
; LENGTH: 1128
; TYPE: PRT
; ORGANISM: Mus musculus
US-09-641-741-30

Query Match 71.2%; Score 37; DB 2; Length 1128;
Best Local Similarity 100.0%; Pred. No. 2e+02;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 YRDGNP 6
Db 637 YRDGNP 642

RESULT 30
US-09-060-482-8
; Sequence 8, Application US/09060482
; Patent No. 6468766
; GENERAL INFORMATION:
; APPLICANT: Lee, Mu-Eh
; APPLICANT: Layne, Matthew D.
; APPLICANT: Yet, Shaw-Fang
; TITLE OF INVENTION: AORTIC CARDOXYPEPTIDASE-LIKE POLYPEPTIDE
; FILE REFERENCE: 05433/036001
; CURRENT APPLICATION NUMBER: US/09/060,482
; PRIOR FILING DATE: 1998-04-15
; EARLIER APPLICATION NUMBER: US 08/818,009
; EARLIER FILING DATE: 1997-03-14
; EARLIER APPLICATION NUMBER: US 60/013,439
; EARLIER FILING DATE: 1996-03-15
; NUMBER OF SEQ ID NOS: 8
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 8
; LENGTH: 1128
; TYPE: PRT
; ORGANISM: Mus musculus
US-09-060-482-8

Query Match 71.2%; Score 37; DB 2; Length 1128;
Best Local Similarity 100.0%; Pred. No. 2e+02;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 YRDGNP 6
Db 637 YRDGNP 642

Db 637 YRDGNP 642

RESULT 31
US-09-060-482-2
; Sequence 2, Application US/09060482
; Patent No. 6468766
; GENERAL INFORMATION:
; APPLICANT: Lee, Mu-Eh
; APPLICANT: Layne, Matthew D.
; APPLICANT: Yet, Shaw-Fang
; TITLE OF INVENTION: AORTIC CARDOXYPEPTIDASE-LIKE POLYPEPTIDE
; FILE REFERENCE: 05433/036001
; CURRENT APPLICATION NUMBER: US/09/060,482
; PRIOR FILING DATE: 1998-04-15
; EARLIER APPLICATION NUMBER: US 08/818,009
; EARLIER FILING DATE: 1997-03-14
; EARLIER APPLICATION NUMBER: US 60/013,439
; EARLIER FILING DATE: 1996-03-15
; NUMBER OF SEQ ID NOS: 8
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 2
; LENGTH: 1158
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-060-482-2

Query Match 71.2%; Score 37; DB 2; Length 1158;
Best Local Similarity 100.0%; Pred. No. 2.1e+02;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 YRDGNP 6
Db 646 YRDGNP 651

RESULT 32
US-09-949-016-8593
; Sequence 8593, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; PRIOR FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 8593
; LENGTH: 1172
; TYPE: PRT
; ORGANISM: Human
US-09-949-016-8593

Query Match 71.2%; Score 37; DB 2; Length 1172;
Best Local Similarity 100.0%; Pred. No. 2.1e+02;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 YRDGNP 6
Db 660 YRDGNP 665

RESULT 33
US-10-080-505-11
; Sequence 11, Application US/10080505

Patent No. 6676948
GENERAL INFORMATION:
APPLICANT: St. Gene, Joseph W.
TITLE OF INVENTION: HAEMOPHILUS ADHERENCE AND PENETRATION PROTEINS
FILE REFERENCE: A-59941-1/RT/DCF/DHR
CURRENT APPLICATION NUMBER: US/10/080,505
CURRENT FILING DATE: 2002-02-22
PRIOR APPLICATION NUMBER: US 08/296,791
PRIOR FILING DATE: 1994-10-25
PRIOR APPLICATION NUMBER: US 09/839,996
PRIOR FILING DATE: 2001-04-20
NUMBER OF SEQ ID NOS: 58
SOFTWARE: PatentIn version 3.1
SEQ ID NO 11
LENGTH: 1391
TYPE: PRT
ORGANISM: Haemophilus influenzae
US-10-080-505-11

Query Match 71.2%; Score 37; DB 2; Length 1391;
Best Local Similarity 85.7%; Pred. No. 2.6e+02;
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 2 RDGNPYA 8
|:|||||
Db 263 REGNPYA 269

RESULT 34
US-10-080-505-15
Sequence 15, Application US/10080505
Patent No. 6676948
GENERAL INFORMATION:
APPLICANT: St. Gene, Joseph W.
TITLE OF INVENTION: HAEMOPHILUS ADHERENCE AND PENETRATION PROTEINS
FILE REFERENCE: A-59941-1/RT/DCF/DHR
CURRENT APPLICATION NUMBER: US/10/080,505
CURRENT FILING DATE: 2002-02-22
PRIOR APPLICATION NUMBER: US 08/296,791
PRIOR FILING DATE: 1994-10-25
PRIOR APPLICATION NUMBER: US 09/839,996
PRIOR FILING DATE: 2001-04-20
NUMBER OF SEQ ID NOS: 58
SOFTWARE: PatentIn version 3.1
SEQ ID NO 15
LENGTH: 1391
TYPE: PRT
ORGANISM: Haemophilus influenzae
US-10-080-505-15

Query Match 71.2%; Score 37; DB 2; Length 1391;
Best Local Similarity 85.7%; Pred. No. 2.6e+02;
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 2 RDGNPYA 8
|:|||||
Db 263 REGNPYA 269

RESULT 35
US-09-902-540-12611
Sequence 12611, Application US/09902540
Patent No. 6833447
GENERAL INFORMATION:
APPLICANT: Goldman, Barry S.
APPLICANT: Hinkle, Gregory J.
APPLICANT: Slater, Steven C.
APPLICANT: Wiegand, Roger C.
TITLE OF INVENTION: MYCOCCUS XANTHUS Genome Sequences and Uses Thereof
FILE REFERENCE: 38-10(15849)B
CURRENT APPLICATION NUMBER: US/09/902,540
CURRENT FILING DATE: 2001-07-10
PRIOR APPLICATION NUMBER: 60/217,883

PRIOR FILING DATE: 2000-07-10
NUMBER OF SEQ ID NOS: 16825
SEQ ID NO 12611
LENGTH: 197
TYPE: PRT
ORGANISM: Mycoccus xanthus
US-09-902-540-12611

Query Match 69.2%; Score 36; DB 2; Length 197;
Best Local Similarity 71.4%; Pred. No. 43;
Matches 5; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 1 YRDGNPY 7
|:|||||
Db 135 YRDGNPY 141

RESULT 36
US-09-537-642-2
Sequence 2, Application US/09537642
Patent No. 6855320
GENERAL INFORMATION:
APPLICANT: Paterson, Yvonne
TITLE OF INVENTION: FUSION OF NON-HEMOLYTIC TRUNCATED FORM OF LISTERIOLYSIS O TO
FILE REFERENCE: 057907-5002
CURRENT APPLICATION NUMBER: US/09/537,642
CURRENT FILING DATE: 2000-03-29
NUMBER OF SEQ ID NOS: 2
SOFTWARE: PatentIn version 3.2
SEQ ID NO 2
LENGTH: 416
TYPE: PRT
ORGANISM: Listeria monocytogenes
US-09-537-642-2

Query Match 69.2%; Score 36; DB 2; Length 416;
Best Local Similarity 66.7%; Pred. No. 1e+02;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 YRDGNPYAV 9
|:|||||
Db 67 YRDGNPYAV 75

RESULT 37
US-09-537-642-1
Sequence 1, Application US/09537642
Patent No. 6855320
GENERAL INFORMATION:
APPLICANT: Paterson, Yvonne
TITLE OF INVENTION: FUSION OF NON-HEMOLYTIC TRUNCATED FORM OF LISTERIOLYSIS O TO
FILE REFERENCE: 057907-5002
CURRENT APPLICATION NUMBER: US/09/537,642
CURRENT FILING DATE: 2000-03-29
NUMBER OF SEQ ID NOS: 2
SOFTWARE: PatentIn version 3.2
SEQ ID NO 1
LENGTH: 529
TYPE: PRT
ORGANISM: Listeria monocytogenes
US-09-537-642-1

Query Match 69.2%; Score 36; DB 2; Length 529;
Best Local Similarity 66.7%; Pred. No. 1.3e+02;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 YRDGNPYAV 9
|:|||||
Db 92 YRDGNPYAV 100

RESULT 38

US-09-485-717-2
; Sequence 2, Application US/09485717
; Patent No. 6673353
; GENERAL INFORMATION:
; APPLICANT: Kaufmann, Stefan
; APPLICANT: Hess, Jürgen
; TITLE OF INVENTION: Tuberculosis Vaccine
; FILE REFERENCE: 16862PUS
; CURRENT APPLICATION NUMBER: US/09/485,717
; CURRENT FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: EP 97114614.7
; PRIOR FILING DATE: 1997-08-22
; PRIOR APPLICATION NUMBER: PCT/EP98-05109
; PRIOR FILING DATE: 1998-08-12
; NUMBER OF SEQ ID NOS: 2
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
; LENGTH: 626
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: recombinant
US-09-485-717-2

Query Match

Best Local Similarity 69.2%; Score 36; DB 2; Length 626;
Best Local Similarity 66.7%; Pred. No. 1.6e+02;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 YRDGNPYAV 9
|:|||||
Db 137 YKDGNEYIV 145

RESULT 39

US-09-948-722-2
; Sequence 2, Application US/09948722
; Patent No. 6776993
; GENERAL INFORMATION:
; APPLICANT: Kaufmann, Stefan H. E.
; APPLICANT: Hess, Jürgen
; TITLE OF INVENTION: Tuberculosis Vaccine
; FILE REFERENCE: 100564-00079
; CURRENT APPLICATION NUMBER: US/09/948,722
; CURRENT FILING DATE: 2002-04-08
; PRIOR APPLICATION NUMBER: US 09/485,717
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: PCT/EP98/05109
; PRIOR FILING DATE: 1998-08-12
; PRIOR APPLICATION NUMBER: EP 97/114,614.7
; PRIOR FILING DATE: 1997-08-23
; NUMBER OF SEQ ID NOS: 2
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 2
; LENGTH: 626
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: recombinant nucleic acid
; OTHER INFORMATION: molecule comprising a domain of Mycobacterium and a phagolysosomal
; OTHER INFORMATION: escape domain
US-09-948-722-2

Query Match

Best Local Similarity 69.2%; Score 36; DB 2; Length 626;
Best Local Similarity 66.7%; Pred. No. 1.6e+02;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 YRDGNPYAV 9
|:|||||
Db 137 YKDGNEYIV 145

RESULT 40

US-08-860-165-12

; Sequence 12, Application US/08860165A.
; Patent No. 6004557
; GENERAL INFORMATION:
; APPLICANT: EDWARDS, Stirling John
; APPLICANT: COX, John Cooper
; APPLICANT: WEBB, Elizabeth Ann
; APPLICANT: FRAZER, Ian
; TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
; FILE REFERENCE: 17227/330
; CURRENT APPLICATION NUMBER: US/08/860,165A
; CURRENT FILING DATE: 1997-09-22
; EARLIER APPLICATION NUMBER: PCT/AU95/00868
; EARLIER FILING DATE: 1995-12-20
; EARLIER APPLICATION NUMBER: AU PN0157
; EARLIER FILING DATE: 1994-12-20
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 12
; LENGTH: 172
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Gene Fusion
US-08-860-165-12

Query Match

Best Local Similarity 65.4%; Score 34; DB 2; Length 172;
Best Local Similarity 100.0%; Pred. No. 88;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 4 GNPYAV 9
|||||
Db 2 GNPYAV 7

RESULT 41

US-09-359-382-12
; Sequence 12, Application US/09359382
; Patent No. 6306397
; GENERAL INFORMATION:
; APPLICANT: EDWARDS, Stirling John
; APPLICANT: COX, John Cooper
; APPLICANT: WEBB, Elizabeth Ann
; APPLICANT: FRAZER, Ian
; TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
; FILE REFERENCE: 017227/0148
; CURRENT APPLICATION NUMBER: US/09/359,382
; CURRENT FILING DATE: 1999-07-23
; EARLIER APPLICATION NUMBER: US 08/860,165
; EARLIER FILING DATE: 1997-09-22
; EARLIER APPLICATION NUMBER: PCT/AU95/00868
; EARLIER FILING DATE: 1995-12-20
; EARLIER APPLICATION NUMBER: AU PN0157/94
; EARLIER FILING DATE: 1994-12-20
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 12
; LENGTH: 172
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-09-359-382-12

Query Match

Best Local Similarity 65.4%; Score 34; DB 2; Length 172;
Best Local Similarity 100.0%; Pred. No. 88;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 4 GNPYAV 9
|||||
Db 2 GNPYAV 7

RESULT 42

US-09-704-321-2

```
Sequence 2, Application US/09704321
Patent No. 6511813
GENERAL INFORMATION:
APPLICANT: Maroteli, Kelch R.
APPLICANT: Poorman, Roger A.
APPLICANT: Wells, Peter Andrew
APPLICANT: Shinnabarger, Dean L.
TITLE OF INVENTION: Elongation Factor P (EFp) And Assays And Antimicrobial Treatments
FILE REFERENCE: PHRM-0294 (6195,NDV1)
CURRENT APPLICATION NUMBER: US/09/704,321
CURRENT FILING DATE: 2000-11-02
PRIOR APPLICATION NUMBER: 09/322,732
PRIOR FILING DATE: 1999-05-28
PRIOR APPLICATION NUMBER: 60/117,473
PRIOR FILING DATE: 1999-01-27
NUMBER OF SEQ ID NOS: 3
SOFTWARE: Patentin version 3.1
SEQ ID NO 2
LENGTH: 188
TYPE: PRT
ORGANISM: Escherichia coli
US-09-704-321-2

Query Match
Best Local Similarity 65.4%; Score 34; DB 2; Length 188;
Pred. No. 97;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 3 DGNPYAV 9
Db 18 DGEPRYAV 24

RESULT 43
US-09-489-039A-8510
Sequence 8510, Application US/09489039A
Patent No. 6610836
GENERAL INFORMATION:
APPLICANT: Gary Breton et. al
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO KLEBSIELLA
FILE REFERENCE: 2709,2004001
CURRENT APPLICATION NUMBER: US/09/489,039A
CURRENT FILING DATE: 2000-01-27
PRIOR APPLICATION NUMBER: US 60/117,747
PRIOR FILING DATE: 1999-01-29
NUMBER OF SEQ ID NOS: 14342
SEQ ID NO 8510
LENGTH: 194
TYPE: PRT
ORGANISM: Klebsiella pneumoniae
US-09-489-039A-8510

Query Match
Best Local Similarity 65.4%; Score 34; DB 2; Length 194;
Pred. No. 1e+02;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 3 DGNPYAV 9
Db 24 DGEPRYAV 30

RESULT 44
US-09-828-523A-4
Sequence 4, Application US/09828523A
Patent No. 6764823
GENERAL INFORMATION:
APPLICANT: The Pharmacia & Upjohn Company
TITLE OF INVENTION: ANTIMICROBIAL METHODS AND MATERIALS
FILE REFERENCE: 268,62120101
CURRENT APPLICATION NUMBER: US/09/828,523A
CURRENT FILING DATE: 2001-04-06
PRIOR APPLICATION NUMBER: 60/266,327
```

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PRIOR FILING DATE: 2000-04-06
NUMBER OF SEQ ID NOS: 99
SOFTWARE: Patentin version 3.1
SEQ ID NO 4
LENGTH: 275
TYPE: PRT
ORGANISM: Staphylococcus aureus
US-09-828-523A-4

Query Match
Best Local Similarity 65.4%; Score 34; DB 2; Length 275;
Pred. No. 1.5e+02;
Matches 6; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 YRDGNPYA 8
Db 105 YIDGKPYA 112

RESULT 45
US-09-828-523A-54
Sequence 54, Application US/09828523A
Patent No. 6764823
GENERAL INFORMATION:
APPLICANT: The Pharmacia & Upjohn Company
TITLE OF INVENTION: ANTIMICROBIAL METHODS AND MATERIALS
FILE REFERENCE: 268,62120101
CURRENT APPLICATION NUMBER: US/09/828,523A
CURRENT FILING DATE: 2001-04-06
PRIOR APPLICATION NUMBER: 60/266,327
PRIOR FILING DATE: 2000-04-06
NUMBER OF SEQ ID NOS: 99
SOFTWARE: Patentin version 3.1
SEQ ID NO 54
LENGTH: 284
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Amino acid sequence encoded by S. aureus coding region cloned for
US-09-828-523A-54

Query Match
Best Local Similarity 65.4%; Score 34; DB 2; Length 284;
Pred. No. 1.5e+02;
Matches 6; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 YRDGNPYA 8
Db 106 YIDGKPYA 113
```

```
RESULT 46
US-09-252-991A-29355
Sequence 29355, Application US/09252991A
Patent No. 6551795
GENERAL INFORMATION:
APPLICANT: Marc J. Rubenfield et al.
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
FILE REFERENCE: 107196,136
CURRENT APPLICATION NUMBER: US/09/252,991A
CURRENT FILING DATE: 1999-02-18
PRIOR APPLICATION NUMBER: US 60/074,788
PRIOR FILING DATE: 1998-02-18
PRIOR APPLICATION NUMBER: US 60/094,190
PRIOR FILING DATE: 1998-07-27
NUMBER OF SEQ ID NOS: 33142
SEQ ID NO 29355
LENGTH: 320
TYPE: PRT
ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-29355

Query Match
Best Local Similarity 65.4%; Score 34; DB 2; Length 320;
```

Best Local Similarity 75.0%; Pred. No. 1.8e+02;
Matches 6; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 YRDGNPYA 8
DB 194 YVDGQPYA 201

RESULT 47
US-09-902-540-15695
; Sequence 15695, Application US/09902540
; Patent No. 6833447
; GENERAL INFORMATION:
; APPLICANT: Goldman, Barry S.
; APPLICANT: Hinkle, Gregory J.
; APPLICANT: Slater, Steven C.
; APPLICANT: Wiegand, Roger C.
; TITLE OF INVENTION: Myxococcus xanthus Genome Sequences and Uses Thereof
; FILE REFERENCE: 38-10(15849)B
; CURRENT APPLICATION NUMBER: US/09/902,540
; CURRENT FILING DATE: 2001-07-10
; PRIOR APPLICATION NUMBER: 60/217,883
; PRIOR FILING DATE: 2000-07-10
; NUMBER OF SEQ ID NOS: 16825
; SEQ ID NO 15695
; LENGTH: 348
; TYPE: PRF
; ORGANISM: Myxococcus xanthus
US-09-902-540-15695

Query Match
Best Local Similarity 75.0%; Score 34; DB 2; Length 348;
Matches 6; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2 RDGNPYAV 9
DB 144 RDGPRYIV 151

RESULT 48
US-09-328-352-4913
; Sequence 4913, Application US/09328352
; Patent No. 6562958
; GENERAL INFORMATION:
; APPLICANT: Gary L. Breton et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO ACINETOBACTER
; FILE REFERENCE: GTC99-03PA
; CURRENT APPLICATION NUMBER: US/09/328,352
; CURRENT FILING DATE: 1999-06-04
; NUMBER OF SEQ ID NOS: 8252
; SEQ ID NO 4913
; LENGTH: 390
; TYPE: PRF
; ORGANISM: Acinetobacter baumannii
US-09-328-352-4913

Query Match
Best Local Similarity 71.4%; Score 34; DB 2; Length 390;
Matches 5; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 YRDGNPY 7
DB 214 YREGPEY 220

RESULT 49
US-08-186-222-2
; Sequence 2, Application US/08186222
; Patent No. 5559007
; GENERAL INFORMATION:
; APPLICANT: Suri, Bruno
; APPLICANT: Schmitz, Albert

TITLE OF INVENTION: Bacterial Vectors
NUMBER OF SEQUENCES: 4
CORRESPONDENCE ADDRESS:
ADDRESSER: CIBA-GEIGY Corporation
STREET: 7 Skyline Drive
CITY: Hawthorne
STATE: New York
COUNTRY: USA

ZIP: 10532

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patent Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/186,222

FILING DATE:

CLASSIFICATION: 435

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 07/672,205

FILING DATE: 19-MAR-1991

APPLICATION NUMBER: GB 9006400.7

FILING DATE: 22-MAR-1990

ATTORNEY/AGENT INFORMATION:

NAME: Villalaz, John

REGISTRATION NUMBER: 30,598

REFERENCE/DOCKET NUMBER: 4-17994/A

TELECOMMUNICATION INFORMATION:

TELEPHONE: (914)785-7121

TELEFAX: (914)347-5769

INFORMATION FOR SEQ ID NO: 2:

SEQUENCE CHARACTERISTICS:

LENGTH: 461 amino acids

TYPE: amino acid

TOPOLOGY: linear

MOLECULE TYPE: protein

US-08-186-222-2

Query Match
Best Local Similarity 100.0%; Score 34; DB 1; Length 461;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 4 GNPYAV 9
DB 347 GNPYAV 352

RESULT 50
US-09-068-804-14
; Sequence 14, Application US/09068804
; Patent No. 6861247
; GENERAL INFORMATION:
; APPLICANT: Miller, Samuel I.
; TITLE OF INVENTION: SALMONELLA SECRETED PROTEINS
; NUMBER OF SEQUENCES: 47
; CORRESPONDENCE ADDRESS:
; ADDRESSER: Fish & Richardson, P.C.
; STREET: 225 Franklin Street
; CITY: Boston
; STATE: MA
; COUNTRY: US
; ZIP: 02110-2804
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: Windows95
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/068,804
; FILING DATE: 14-MAY-1998
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/US96/18504

FILING DATE: 14-NOV-1996
APPLICATION NUMBER: 60/006,733
FILING DATE: 14-NOV-1995
ATTORNEY/AGENT INFORMATION:
NAME: Fraser, Janis K.
REGISTRATION NUMBER: 34,819
REFERENCE/DOCKET NUMBER: 00786/292002
TELECOMMUNICATION INFORMATION:
TELEPHONE: 617-542-5070
TELEFAX: 617-542-8906
INFORMATION FOR SEQ ID NO: 14:
SEQUENCE CHARACTERISTICS:
LENGTH: 513 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-09-068-804-14

Query Match 65.4%; Score 34; DB 2; Length 513;
Best Local Similarity 66.7%; Pred. No. 3e+02;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 YRDGNPYAV 9
Db 178 YLDGNPLSV 186

Search completed: May 5, 2006, 04:00:52
Job time : 25 secs

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GenCore version 5.1.7
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OM protein - protein search, using sw model

Run on: May 5, 2006, 08:07:45 ; Search time 55.8 Seconds
(Without alignments)
67.392 Million cell updates/sec

Title: US-08-170-344-35
Perfect score: 52
Sequence: 1 YRDGNPYAV 9

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1867569 seqs, 41782926 residues
Total number of hits satisfying chosen parameters: 1867569

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 1000 summaries

Database: Published Applications_AA_Main:
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2: /cgn2_6/ptodata/1/pubpaa/US08_PUBCOMB.pep:
3: /cgn2_6/ptodata/1/pubpaa/US09_PUBCOMB.pep:
4: /cgn2_6/ptodata/1/pubpaa/US10_PUBCOMB.pep:
5: /cgn2_6/ptodata/1/pubpaa/US10A_PUBCOMB.pep:
6: /cgn2_6/ptodata/1/pubpaa/US11_PUBCOMB.pep:

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match length	ID	Description
1	52	100.0	15 4 US-10-476-570-10	Sequence 30, Appl
2	52	100.0	20 4 US-10-476-570-11	Sequence 11, Appl
3	52	100.0	151 4 US-10-177-390-6	Sequence 6, Appl
4	52	100.0	151 5 US-10-484-063-20	Sequence 20, Appl
5	52	100.0	151 5 US-10-484-063-27	Sequence 27, Appl
6	52	100.0	158 5 US-10-858-384-2	Sequence 2, Appl
7	52	100.0	158 5 US-10-367-057-16	Sequence 16, Appl
8	52	100.0	158 6 US-11-021-949-13	Sequence 13, Appl
9	52	100.0	171 4 US-10-472-724-2	Sequence 2, Appl
10	52	100.0	243 6 US-11-072-288-1	Sequence 1, Appl
11	52	100.0	266 3 US-09-367-309A-1	Sequence 1, Appl
12	52	100.0	273 4 US-10-000-903-4	Sequence 4, Appl
13	52	100.0	273 5 US-10-899-771-4	Sequence 10, Appl
14	52	100.0	292 4 US-10-000-903-10	Sequence 10, Appl
15	52	100.0	292 5 US-10-899-771-10	Sequence 6, Appl
16	52	100.0	371 4 US-10-000-903-6	Sequence 6, Appl
17	52	100.0	371 5 US-10-899-771-6	Sequence 14, Appl
18	52	100.0	390 4 US-10-000-903-14	Sequence 14, Appl
19	52	100.0	390 5 US-10-899-771-14	Sequence 11, Appl
20	48	92.3	9 3 US-09-739-466C-11	Sequence 11, Appl
21	48	92.3	149 6 US-11-021-949-15	Sequence 12, Appl
22	46	88.5	117 5 US-10-751-845-126	Sequence 24, Appl
23	46	88.5	151 6 US-11-021-949-24	Sequence 15, Appl
24	46	88.5	236 5 US-10-751-845-157	Sequence 15, Appl
25	46	88.5	237 5 US-10-751-845-158	Sequence 16, Appl
26	46	88.5	261 5 US-10-751-845-160	Sequence 4, Appl
27	45	86.5	22 4 US-10-612-818-4	Sequence 4, Appl

28	86.5	22 5 US-10-995-902-4	Sequence 4, Appl
29	84.6	9 5 US-10-751-845-83	Sequence 83, Appl
30	84.6	21 4 US-10-476-570-54	Sequence 54, Appl
31	84.6	22 4 US-10-476-570-26	Sequence 26, Appl
32	84.6	22 5 US-10-858-384-6	Sequence 6, Appl
33	84.6	23 4 US-10-476-570-27	Sequence 27, Appl
34	84.6	24 5 US-10-751-845-65	Sequence 65, Appl
35	80.8	148 6 US-11-021-949-17	Sequence 17, Appl
36	78.8	9 4 US-10-161-097-42	Sequence 42, Appl
37	78.8	436 4 US-10-424-599-270568	Sequence 270568, Appl
38	78.8	443 4 US-10-425-114-45886	Sequence 45886, A
39	78.8	443 4 US-10-425-114-46250	Sequence 46250, A
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97	67.3	303 4 US-10-425-114-18695	Sequence 18695, A
98	67.3	326 4 US-10-767-701-43959	Sequence 43959, A
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137	34	65.4	1005	5	US-10-732-923-3307	Sequence 3307, Ap	210	33	63.5	1484	4	US-10-007-747-56	Sequence 56, Appl
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157	33	63.5	147	4	US-10-109-048-957	Sequence 957, App	230	32	61.5	126	4	US-10-425-115-188136	Sequence 188136,
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262	32	61.5	227	4	US-10-155-809-16	Sequence 16, App1	335	32	61.5	353	4	US-10-012-237A-397	Sequence 397, App
263	32	61.5	227	5	US-10-757-356-10	Sequence 10, App1	336	32	61.5	353	4	US-10-013-906A-397	Sequence 397, App
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269	32	61.5	271	5	US-10-450-763-59915	Sequence 59915, App	342	32	61.5	353	4	US-10-015-915A-397	Sequence 397, App
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273	32	61.5	313	4	US-10-425-115-33902	Sequence 33902, App	346	32	61.5	353	4	US-10-006-746A-397	Sequence 397, App
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279	32	61.5	345	4	US-10-282-122A-48152	Sequence 48152, App	352	32	61.5	353	4	US-10-012-149A-397	Sequence 397, App
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283	32	61.5	353	3	US-09-759-1308-193	Sequence 193, App	356	32	61.5	353	4	US-11-025-607-397	Sequence 58, App1
284	32	61.5	353	3	US-09-946-374-397	Sequence 99, App1	357	32	61.5	353	4	US-10-737-450-58	Sequence 723, App
285	32	61.5	353	3	US-09-833-245-99	Sequence 100, App1	358	32	61.5	353	4	US-10-439-741-14	Sequence 14, App1
286	32	61.5	353	3	US-09-833-245-100	Sequence 100, App1	359	32	61.5	353	4	US-10-450-763-37991	Sequence 37991, App
287	32	61.5	353	4	US-10-006-856A-397	Sequence 397, App	360	32	61.5	353	4	US-09-793-705-28	Sequence 28, App1
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289	32	61.5	353	4	US-10-006-485A-397	Sequence 397, App	362	32	61.5	353	4	US-10-437-963-179852	Sequence 179852, App
290	32	61.5	353	4	US-10-013-907A-397	Sequence 397, App	363	32	61.5	353	4	US-10-437-963-12008	Sequence 12008, App
291	32	61.5	353	4	US-10-015-499A-397	Sequence 397, App	364	32	61.5	353	4	US-10-437-963-105583	Sequence 105583, App
292	32	61.5	353	4	US-10-015-393A-397	Sequence 397, App	365	32	61.5	353	4	US-10-087-192-1149	Sequence 1149, App
293	32	61.5	353	4	US-10-015-869A-397	Sequence 397, App	366	32	61.5	353	4	US-10-087-192-1152	Sequence 1152, App
294	32	61.5	353	4	US-10-012-121A-397	Sequence 397, App	367	32	61.5	353	4	US-10-719-642-17	Sequence 17, App1
295	32	61.5	353	4	US-10-006-116A-397	Sequence 397, App	368	32	61.5	353	4	US-10-806-930-6	Sequence 16, App1
296	32	61.5	353	4	US-10-006-117A-397	Sequence 397, App	369	32	61.5	353	4	US-09-976-673-16	Sequence 2, App1
297	32	61.5	353	4	US-10-017-527A-397	Sequence 397, App	370	32	61.5	353	4	US-10-806-930-2	Sequence 15572, App
298	32	61.5	353	4	US-10-007-194A-397	Sequence 397, App	371	32	61.5	353	4	US-10-369-493-15572	Sequence 15945, App
299	32	61.5	353	4	US-10-007-194A-397	Sequence 397, App	372	32	61.5	353	4	US-10-369-493-15945	Sequence 16313, App
300	32	61.5	353	4	US-10-013-430A-397	Sequence 397, App	373	32	61.5	353	4	US-10-369-493-16313	Sequence 16313, App
301	32	61.5	353	4	US-10-011-671A-397	Sequence 397, App	374	32	61.5	353	4	US-09-976-673-18	Sequence 18, App1
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304	32	61.5	353	4	US-10-011-682A-397	Sequence 397, App	377	32	61.5	353	4	US-10-282-122A-58454	Sequence 58454, App
305	32	61.5	353	4	US-10-006-768A-397	Sequence 397, App	378	32	61.5	353	4	US-10-437-963-172609	Sequence 172609, App
306	32	61.5	353	4	US-10-017-610A-397	Sequence 397, App	379	32	61.5	353	4	US-10-732-923-1067	Sequence 1067, App
307	32	61.5	353	4	US-10-006-063A-397	Sequence 397, App	380	32	61.5	353	4	US-10-437-963-15658	Sequence 45780, App
308	32	61.5	353	4	US-10-020-063A-397	Sequence 397, App	381	32	61.5	353	4	US-10-282-122A-45780	Sequence 45943, App
309	32	61.5	353	4	US-10-015-391A-397	Sequence 397, App	382	32	61.5	353	4	US-10-437-963-15658	Sequence 15658, App
310	32	61.5	353	4	US-10-017-407A-397	Sequence 397, App	383	32	61.5	353	4	US-10-159-257A-158	Sequence 158, App
311	32	61.5	353	4	US-10-011-833A-397	Sequence 397, App	384	32	61.5	353	4	US-10-473-127-1836	Sequence 1836, App
312	32	61.5	353	4	US-10-006-041A-397	Sequence 397, App	385	32	61.5	353	4	US-10-473-127-1837	Sequence 1837, App
313	32	61.5	353	4	US-10-015-822A-397	Sequence 397, App	386	32	61.5	353	4	US-10-473-127-1838	Sequence 1838, App
314	32	61.5	353	4	US-10-015-387A-397	Sequence 397, App	387	32	61.5	353	4	US-10-473-127-1841	Sequence 1841, App
315	32	61.5	353	4	US-10-006-172A-397	Sequence 397, App	388	32	61.5	353	4	US-10-473-127-1842	Sequence 1842, App
316	32	61.5	353	4	US-10-017-253A-397	Sequence 397, App	389	32	61.5	353	4	US-10-723-860-205	Sequence 205, App
317	32	61.5	353	4	US-10-015-392A-397	Sequence 397, App	390	32	61.5	353	4	US-10-473-127-1840	Sequence 1840, App
318	32	61.5	353	4	US-10-017-306A-397	Sequence 397, App	391	32	61.5	353	4	US-10-156-761-8407	Sequence 8407, App
319	32	61.5	353	4	US-10-017-306A-397	Sequence 397, App	392	32	61.5	353	4	US-10-156-761-8407	Sequence 8407, App

393	32	61.5	547	4	US-10-205-219-177	Sequence 177, App	466	32	61.5	1378	4	US-10-114-824A-9	Sequence 9, Appl
394	32	61.5	550	4	US-10-437-963-157813	Sequence 157813, A	467	32	61.5	1390	5	US-10-732-923-11925	Sequence 12925, A
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396	32	61.5	566	4	US-10-672-074-8	Sequence 8, Appl	469	32	61.5	1436	4	US-10-282-122A-66468	Sequence 66468, A
397	32	61.5	571	4	US-10-672-074-9	Sequence 9, Appl	470	32	61.5	1448	3	US-09-839-996-4	Sequence 4, Appl
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399	32	61.5	581	4	US-10-281-673-3	Sequence 3, Appl	472	32	61.5	1545	4	US-10-645-655-4	Sequence 4, Appl
400	32	61.5	597	4	US-10-369-493-18012	Sequence 18012, A	473	32	61.5	1545	4	US-10-687-046-4	Sequence 4, Appl
401	32	61.5	607	4	US-10-108-260A-3710	Sequence 3710, Ap	474	32	61.5	1779	6	US-11-097-143-7413	Sequence 7413, Ap
402	32	61.5	608	5	US-10-150-763-51713	Sequence 51713, A	475	32	61.5	2069	3	US-09-738-628-4220	Sequence 4320, Ap
403	32	61.5	624	3	US-09-972-211-24	Sequence 24, Appl	476	32	61.5	2100	5	US-10-494-674-60	Sequence 60, Appl
404	32	61.5	634	4	US-10-096-625-24	Sequence 24, Appl	477	32	61.5	2476	5	US-10-732-923-12958	Sequence 12958, A
405	32	61.5	637	4	US-10-425-115-305888	Sequence 305888,	478	31.5	60.6	44	3	US-09-865-622A-13	Sequence 13, Appl
406	32	61.5	638	3	US-09-842-758-22	Sequence 22, Appl	479	31.5	60.6	274	4	US-10-156-761-11619	Sequence 11619, A
407	32	61.5	638	4	US-10-174-333-22	Sequence 22, Appl	480	31.5	60.6	576	4	US-10-168-017-2	Sequence 2, Appl
408	32	61.5	659	4	US-10-669-493-2600	Sequence 2600, Ap	481	31.5	60.6	576	4	US-10-432-236-13	Sequence 24007, A
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411	32	61.5	687	3	US-09-842-758-24	Sequence 24, Appl	484	31	59.6	38	4	US-10-240-403-12	Sequence 235383,
412	32	61.5	687	4	US-10-174-333-24	Sequence 24, Appl	485	31	59.6	38	4	US-10-425-115-235383	Sequence 207344,
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414	32	61.5	704	3	US-09-833-782-2	Sequence 2, Appl	487	31	59.6	46	4	US-10-425-115-20274	Sequence 2, Appl
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416	32	61.5	704	3	US-09-972-211-12	Sequence 12, Appl	489	31	59.6	47	4	US-10-425-115-356171	Sequence 23040,
417	32	61.5	704	3	US-09-972-211-14	Sequence 14, Appl	490	31	59.6	52	4	US-10-424-599-232040	Sequence 111, App
418	32	61.5	704	3	US-09-972-211-16	Sequence 16, Appl	491	31	59.6	57	3	US-09-863-776-111	Sequence 264691,
419	32	61.5	704	3	US-09-972-211-18	Sequence 18, Appl	492	31	59.6	66	4	US-10-425-115-284691	Sequence 350196,
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421	32	61.5	704	3	US-09-972-211-22	Sequence 22, Appl	494	31	59.6	68	4	US-10-424-599-242129	Sequence 188109,
422	32	61.5	704	3	US-09-972-211-26	Sequence 26, Appl	495	31	59.6	69	4	US-10-424-599-188109	Sequence 123, App
423	32	61.5	704	3	US-09-972-211-28	Sequence 28, Appl	496	31	59.6	76	4	US-10-263-828-123	Sequence 257274,
424	32	61.5	704	3	US-09-972-211-98	Sequence 98, Appl	497	31	59.6	76	4	US-10-424-599-257274	Sequence 7881, Ap
425	32	61.5	704	4	US-10-192-207-1	Sequence 1, Appl	498	31	59.6	81	3	US-10-156-761-7881	Sequence 131, Ap
426	32	61.5	704	4	US-10-192-445-1	Sequence 1, Appl	499	31	59.6	81	3	US-09-863-776-131	Sequence 367679,
427	32	61.5	704	4	US-10-174-333-26	Sequence 26, Appl	500	31	59.6	81	4	US-10-425-115-356171	Sequence 153451,
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429	32	61.5	704	4	US-10-096-625-14	Sequence 14, Appl	502	31	59.6	93	3	US-09-867-550-612	Sequence 41666, A
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433	32	61.5	704	4	US-10-096-625-22	Sequence 22, Appl	506	31	59.6	105	5	US-10-494-672-380	Sequence 365291,
434	32	61.5	704	4	US-10-096-625-22	Sequence 26, Appl	507	31	59.6	109	4	US-10-425-115-365291	Sequence 20, Appl
435	32	61.5	704	4	US-10-096-625-28	Sequence 28, Appl	508	31	59.6	112	5	US-10-877-773-20	Sequence 21, Appl
436	32	61.5	704	4	US-10-096-625-98	Sequence 98, Appl	509	31	59.6	112	5	US-10-877-773-21	Sequence 20, Appl
437	32	61.5	704	5	US-10-984-359-2	Sequence 2, Appl	510	31	59.6	112	5	US-10-877-774-20	Sequence 21, Appl
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441	32	61.5	726	4	US-10-437-963-135616	Sequence 135616,	514	31	59.6	123	3	US-09-738-626-4298	Sequence 4298, Ap
442	32	61.5	730	4	US-10-425-115-254384	Sequence 254384,	515	31	59.6	128	4	US-10-424-599-223720	Sequence 223720,
443	32	61.5	746	4	US-10-425-114-38890	Sequence 38890, A	516	31	59.6	129	4	US-10-152-190-6	Sequence 6, Appl
444	32	61.5	762	4	US-10-437-963-153687	Sequence 153687,	517	31	59.6	131	5	US-10-477-445-51	Sequence 51, Appl
445	32	61.5	767	5	US-10-831-070-264	Sequence 264, App	518	31	59.6	147	4	US-10-425-115-187746	Sequence 187746,
446	32	61.5	786	5	US-10-450-763-59918	Sequence 59918, A	519	31	59.6	150	4	US-10-109-048-974	Sequence 974, App
447	32	61.5	792	4	US-10-437-963-116250	Sequence 116250,	520	31	59.6	155	6	US-11-021-949-23	Sequence 23, Appl
448	32	61.5	814	4	US-10-437-963-162379	Sequence 162379,	521	31	59.6	161	4	US-10-437-963-117253	Sequence 117253,
449	32	61.5	832	4	US-10-437-963-151453	Sequence 151453,	522	31	59.6	164	6	US-11-021-949-31	Sequence 31, Appl
450	32	61.5	843	4	US-10-424-599-217894	Sequence 217894,	523	31	59.6	164	3	US-09-738-626-4298	Sequence 61, Appl
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456	32	61.5	922	4	US-10-369-493-5105	Sequence 5105, Ap	529	31	59.6	179	4	US-10-424-599-225033	Sequence 225033,
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459	32	61.5	945	4	US-10-408-765A-342	Sequence 342, App	532	31	59.6	183	4	US-10-424-599-225032	Sequence 225032,
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464	32	61.5	1288	4	US-10-114-824A-10	Sequence 10, Appl	537	31	59.6	207	4	US-10-437-963-162060	Sequence 162060,
465	32	61.5	1294	4	US-10-282-122A-48422	Sequence 48422, A	538	31	59.6	207	4	US-10-437-963-162060	Sequence 162060,

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540	31	59.6	211	4	US-10-425-115-229992	Sequence 229992,	613	31	59.6	417	3	US-09-782-980-14	Sequence 14, Appl
541	31	59.6	214	4	US-10-437-963-204239	Sequence 204239,	614	31	59.6	417	3	US-09-909-743-5	Sequence 5, Appl
542	31	59.6	233	5	US-10-481-032A-448	Sequence 448, App	615	31	59.6	417	4	US-10-305-348-8	Sequence 8, Appl
543	31	59.6	238	3	US-09-998-481-47	Sequence 47, Appl	616	31	59.6	417	4	US-10-301-822-107	Sequence 107, App
544	31	59.6	247	4	US-10-107-431-103	Sequence 103, App	617	31	59.6	417	4	US-10-364-889-2	Sequence 2, Appl
545	31	59.6	241	4	US-10-425-115-358362	Sequence 358362,	618	31	59.6	417	4	US-10-058-270A-86	Sequence 86, Appl
546	31	59.6	269	3	US-09-855-604-555	Sequence 555, App	619	31	59.6	417	4	US-10-423-543-75	Sequence 75, Appl
547	31	59.6	269	3	US-09-855-604-555	Sequence 555, App	620	31	59.6	417	4	US-10-806-018-14	Sequence 14, Appl
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552	31	59.6	289	5	US-10-719-993-445	Sequence 445, App	625	31	59.6	417	5	US-10-287-436A-397	Sequence 397, App
553	31	59.6	295	4	US-10-425-114-59261	Sequence 59261, A	626	31	59.6	417	5	US-10-287-436A-1097	Sequence 1097, App
554	31	59.6	295	5	US-10-732-923-3813	Sequence 3813, App	627	31	59.6	417	6	US-11-019-829-144	Sequence 144, App
555	31	59.6	299	4	US-10-282-122A-46055	Sequence 46055, A	628	31	59.6	419	5	US-10-737-450-142	Sequence 142, App
556	31	59.6	305	4	US-10-282-122A-50678	Sequence 50678, A	629	31	59.6	431	3	US-10-282-122A-50951	Sequence 50951, A
557	31	59.6	305	4	US-10-286-115-1407	Sequence 1407, App	630	31	59.6	431	3	US-09-925-302-485	Sequence 485, App
558	31	59.6	307	4	US-10-369-493-20493	Sequence 20493, A	631	31	59.6	434	4	US-10-477-515-2	Sequence 2, Appl
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560	31	59.6	308	4	US-10-469-061A-40	Sequence 40, Appl	633	31	59.6	437	4	US-10-274-639-12	Sequence 12, Appl
561	31	59.6	309	4	US-10-425-114-42382	Sequence 42382, A	634	31	59.6	437	4	US-10-333-574-12	Sequence 12, Appl
562	31	59.6	310	5	US-10-459-061A-38	Sequence 38, Appl	635	31	59.6	437	4	US-10-757-262-128	Sequence 128, App
563	31	59.6	310	5	US-10-732-923-3820	Sequence 3820, App	637	31	59.6	437	5	US-10-872-968-10	Sequence 10, Appl
564	31	59.6	310	5	US-10-732-923-3847	Sequence 3847, App	638	31	59.6	437	5	US-10-872-968-10	Sequence 4054, A
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566	31	59.6	311	4	US-10-425-114-50128	Sequence 50128, A	640	31	59.6	431	3	US-09-894-698-7	Sequence 7, Appl
567	31	59.6	315	3	US-10-363-829-442	Sequence 442, App	641	31	59.6	461	5	US-10-180-165-7	Sequence 7, Appl
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869	31	59.6	2551	4	US-10-282-122A-74083	Sequence 74083, A
870	30.5	58.6	5836	4	US-10-378-083-20	Sequence 20, Appl1
871	30	57.7	354	4	US-10-424-599-264102	Sequence 264102,
872	30	57.7	16	3	US-09-940-727B-19	Sequence 19, Appl1
873	30	57.7	16	3	US-09-940-727B-28	Sequence 28, Appl1
874	30	57.7	16	4	US-10-226-435A-1	Sequence 1, Appl1
875	30	57.7	16	4	US-10-226-435A-15	Sequence 15, Appl1
876	30	57.7	16	4	US-10-663-244-16	Sequence 16, Appl1
877	30	57.7	16	4	US-10-487-322-1	Sequence 1, Appl1
878	30	57.7	16	5	US-10-487-326-1	Sequence 1, Appl1
879	30	57.7	16	5	US-10-486-908-1	Sequence 1, Appl1
880	30	57.7	17	3	US-09-864-761-40429	Sequence 40429, A
881	30	57.7	40	4	US-10-109-048-897	Sequence 897, App
882	30	57.7	44	4	US-10-424-599-255692	Sequence 255692,
883	30	57.7	45	3	US-09-933-767-554	Sequence 554, App
884	30	57.7	45	4	US-10-004-860-554	Sequence 554, App
885	30	57.7	45	4	US-10-023-282-554	Sequence 554, App
886	30	57.7	52	4	US-10-425-115-197602	Sequence 197602,
887	30	57.7	53	4	US-10-424-599-274108	Sequence 274108,
888	30	57.7	57	4	US-10-427-442-8	Sequence 8, Appl1
889	30	57.7	60	4	US-10-424-599-179034	Sequence 179034,
890	30	57.7	60	4	US-10-437-963-163021	Sequence 163021,
891	30	57.7	62	4	US-10-424-599-273693	Sequence 273693,
892	30	57.7	64	4	US-10-424-599-283250	Sequence 283250,
893	30	57.7	66	4	US-10-424-599-162635	Sequence 162635,
894	30	57.7	72	4	US-10-427-442-18	Sequence 18, Appl1
895	30	57.7	74	4	US-10-424-599-258622	Sequence 258622,
896	30	57.7	75	4	US-10-425-115-271954	Sequence 271954,
897	30	57.7	78	3	US-09-764-868-884	Sequence 884, App
898	30	57.7	82	4	US-10-425-115-233019	Sequence 233019,
899	30	57.7	85	4	US-10-424-599-166151	Sequence 166151,
900	30	57.7	85	4	US-10-424-599-216981	Sequence 216981,
901	30	57.7	85	4	US-09-974-879-427	Sequence 427, App
902	30	57.7	87	3	US-09-305-736-427	Sequence 427, App
903	30	57.7	87	3	US-09-818-683-427	Sequence 427, App
904	30	57.7	87	3	US-09-818-683-427	Sequence 427, App
905	30	57.7	87	4	US-10-425-115-218888	Sequence 218888,
906	30	57.7	87	4	US-10-425-115-218888	Sequence 218888,
907	30	57.7	89	4	US-10-437-963-10061	Sequence 10061,
908	30	57.7	90	4	US-10-425-115-353416	Sequence 353416,
909	30	57.7	91	4	US-10-424-599-169317	Sequence 169317,
910	30	57.7	91	5	US-10-473-287-37	Sequence 53, Appl1
911	30	57.7	91	5	US-10-473-287-53	Sequence 53, Appl1
912	30	57.7	92	4	US-10-424-599-252842	Sequence 252842,
913	30	57.7	93	4	US-10-424-599-186181	Sequence 186181,
914	30	57.7	93	4	US-10-194-975-75	Sequence 75, Appl1
915	30	57.7	100	4	US-10-194-975-76	Sequence 76, Appl1
916	30	57.7	100	4	US-10-153-382-36	Sequence 36, Appl1
917	30	57.7	100	4	US-10-308-817-22	Sequence 22, Appl1
918	30	57.7	100	4	US-10-308-817-23	Sequence 23, Appl1
919	30	57.7	100	4	US-10-453-698-22	Sequence 22, Appl1
920	30	57.7	100	4	US-10-453-698-23	Sequence 23, Appl1
921	30	57.7	100	4	US-10-379-392-87	Sequence 87, Appl1
922	30	57.7	100	4	US-10-379-392-88	Sequence 88, Appl1
923	30	57.7	100	5	US-10-612-497-113	Sequence 113, App
924	30	57.7	100	5	US-10-776-649-113	Sequence 113, App
925	30	57.7	100	6	US-11-085-368-36	Sequence 36, Appl1
926	30	57.7	101	4	US-10-425-115-194210	Sequence 194210,
927	30	57.7	103	4	US-10-309-764-48	Sequence 48, Appl1
928	30	57.7	103	4	US-10-425-115-189629	Sequence 189629,
929	30	57.7	106	4	US-10-029-386-28766	Sequence 28766, A
930	30	57.7	106	4	US-10-425-115-298001	Sequence 298001,
931	30	57.7	112	3	US-09-840-459-56	Sequence 56, Appl1
932	30	57.7	112	3	US-09-840-459-56	Sequence 56, Appl1
933	30	57.7	112	3	US-09-840-459-66	Sequence 66, Appl1
934	30	57.7	112	3	US-09-840-459-70	Sequence 70, Appl1
935	30	57.7	112	4	US-10-309-764-50	Sequence 50, Appl1
936	30	57.7	112	4	US-10-309-764-51	Sequence 51, Appl1
937	30	57.7	112	4	US-10-693-244-5	Sequence 5, Appl1
938	30	57.7	112	4	US-10-766-773-56	Sequence 56, Appl1
939	30	57.7	112	4	US-10-766-773-66	Sequence 66, Appl1
940	30	57.7	112	4	US-10-766-773-70	Sequence 70, Appl1
941	30	57.7	112	4	US-10-766-610-56	Sequence 56, Appl1
942	30	57.7	112	4	US-10-766-610-70	Sequence 70, Appl1
943	30	57.7	112	4	US-10-733-563-66	Sequence 66, Appl1
944	30	57.7	112	4	US-10-733-563-70	Sequence 70, Appl1
945	30	57.7	112	5	US-10-877-773-28	Sequence 28, Appl1
946	30	57.7	112	5	US-10-877-773-29	Sequence 29, Appl1
947	30	57.7	112	5	US-10-877-773-31	Sequence 31, Appl1
948	30	57.7	112	5	US-10-877-773-32	Sequence 32, Appl1
949	30	57.7	112	5	US-10-877-773-33	Sequence 33, Appl1
950	30	57.7	112	5	US-10-877-774-28	Sequence 28, Appl1
951	30	57.7	112	5	US-10-877-774-29	Sequence 29, Appl1
952	30	57.7	112	5	US-10-877-774-31	Sequence 31, Appl1
953	30	57.7	112	5	US-10-877-774-32	Sequence 32, Appl1
954	30	57.7	112	5	US-10-877-774-33	Sequence 33, Appl1
955	30	57.7	112	5	US-09-940-727B-5	Sequence 5, Appl1
956	30	57.7	113	3	US-09-940-727B-6	Sequence 6, Appl1
957	30	57.7	113	3	US-09-940-727B-7	Sequence 7, Appl1
958	30	57.7	113	3	US-09-940-727B-100	Sequence 100, App
959	30	57.7	113	3	US-09-940-727B-104	Sequence 104, App
960	30	57.7	113	3	US-09-940-727B-112	Sequence 112, App
961	30	57.7	113	3	US-10-424-599-146828	Sequence 146828,
962	30	57.7	113	4	US-10-226-435A-7	Sequence 7, Appl1
963	30	57.7	113	4	US-10-226-435A-9	Sequence 9, Appl1
964	30	57.7	113	4	US-10-487-322-7	Sequence 7, Appl1
965	30	57.7	113	4	US-10-487-322-9	Sequence 9, Appl1
966	30	57.7	113	4	US-10-487-322-9	Sequence 9, Appl1
967	30	57.7	113	5	US-10-487-326-7	Sequence 7, Appl1
968	30	57.7	113	5	US-10-487-326-9	Sequence 9, Appl1
969	30	57.7	113	5	US-10-486-908-9	Sequence 9, Appl1
970	30	57.7	113	5	US-10-486-908-9	Sequence 9, Appl1
971	30	57.7	113	5	US-10-512-527-9	Sequence 9, Appl1
972	30	57.7	113	5	US-10-512-527-9	Sequence 9, Appl1
973	30	57.7	114	4	US-10-001-843-176	Sequence 176, App
974	30	57.7	114	4	US-10-309-762-161	Sequence 161, App
975	30	57.7	114	5	US-10-727-155-875	Sequence 875, App
976	30	57.7	114	6	US-11-005-609-176	Sequence 176, App

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977 30 57.7 116 4 US-10-424-599-157058 Sequence 157058,
978 30 57.7 117 4 US-10-767-701-53807 Sequence 53807, A
979 30 57.7 118 4 US-10-767-701-34928 Sequence 34928, A
980 30 57.7 121 4 US-10-425-115-319045 Sequence 319045,
981 30 57.7 125 4 US-10-424-599-272101 Sequence 272101,
982 30 57.7 125 4 US-10-425-114-69895 Sequence 69895, A
983 30 57.7 130 3 US-09-764-891-4534 Sequence 4534, Ap
984 30 57.7 130 3 US-09-764-891-4534 Sequence 4534, Ap
985 30 57.7 130 3 US-09-933-767-1127 Sequence 1127, Ap
986 30 57.7 130 4 US-10-004-860-1127 Sequence 1127, Ap
987 30 57.7 132 4 US-10-023-282-1127 Sequence 1127, Ap
988 30 57.7 132 4 US-10-309-764-1117 Sequence 1117, Ap
989 30 57.7 132 4 US-10-309-764-1117 Sequence 1117, Ap
990 30 57.7 135 4 US-10-437-963-182643 Sequence 182643,
991 30 57.7 135 4 US-10-425-115-339094 Sequence 339094,
992 30 57.7 138 3 US-09-925-302-626 Sequence 626, App
993 30 57.7 139 4 US-10-153-382-37 Sequence 37, App
994 30 57.7 139 4 US-10-437-963-159415 Sequence 159415,
995 30 57.7 139 5 US-10-612-497-25 Sequence 25, App
996 30 57.7 139 5 US-10-612-497-114 Sequence 114, App
997 30 57.7 139 5 US-10-776-649-25 Sequence 25, App
998 30 57.7 139 5 US-10-776-649-114 Sequence 114, App
999 30 57.7 139 6 US-11-085-368-37 Sequence 37, App
1000 30 57.7 139 6 US-11-085-368-83 Sequence 83, App
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ALIGNMENTS

RESULT 1
US-10-476-570-30
; Sequence 30, Application US/10476570
; Publication No. US20040170644A1

GENERAL INFORMATION:
APPLICANT: COMMISSARIAT A L'ENERGIE ATOMIQUE
APPLICANT: INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE
APPLICANT: MAILLIERE, Bernard
APPLICANT: BOURGAULT-VILLADA, Isabelle
APPLICANT: BOUVELLE-MORATILLE, Sandra
APPLICANT: GUILLET, Jean-Gerard
TITLE OF INVENTION: Mixture of peptides derived from B6 and/or E7
TITLE OF INVENTION: Papillomavirus proteins and uses thereof
FILE REFERENCE: 45636-5071-US
CURRENT APPLICATION NUMBER: US/10/476,570
CURRENT FILING DATE: 2003-11-04
PRIOR APPLICATION NUMBER: PCT/FR02/01533
PRIOR FILING DATE: 2002-05-03
PRIOR APPLICATION NUMBER: FR 01 05980
PRIOR FILING DATE: 2001-05-04
NUMBER OF SEQ ID NOS: 63
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 30
LENGTH: 15
TYPE: PRT
ORGANISM: artificial sequence
FEATURE:
OTHER INFORMATION: Description of the artificial sequence: peptide B6 55-69
US-10-476-570-30

Query Match 100.0%; Score 52; DB 4; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.012;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 YRDGNPYAV 9
Db 7 YRDGNPYAV 15

RESULT 2
US-10-476-570-11
; Sequence 11, Application US/10476570
; Publication No. US20040170644A1
; GENERAL INFORMATION:

APPLICANT: COMMISSARIAT A L'ENERGIE ATOMIQUE
APPLICANT: INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE
APPLICANT: MAILLIERE, Bernard
APPLICANT: BOURGAULT-VILLADA, Isabelle
APPLICANT: BOUVELLE-MORATILLE, Sandra
APPLICANT: GUILLET, Jean-Gerard
TITLE OF INVENTION: Mixture of peptides derived from B6 and/or E7
TITLE OF INVENTION: Papillomavirus proteins and uses thereof
FILE REFERENCE: 45636-5071-US
CURRENT APPLICATION NUMBER: US/10/476,570
CURRENT FILING DATE: 2003-11-04
PRIOR APPLICATION NUMBER: PCT/FR02/01533
PRIOR FILING DATE: 2002-05-03
PRIOR APPLICATION NUMBER: FR 01 05980
PRIOR FILING DATE: 2001-05-04
NUMBER OF SEQ ID NOS: 63
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 11
LENGTH: 20
TYPE: PRT
ORGANISM: artificial sequence
FEATURE:
OTHER INFORMATION: Description of the artificial sequence: peptide B6 61-80
US-10-476-570-11

Query Match 100.0%; Score 52; DB 4; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.017;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 YRDGNPYAV 9
Db 1 YRDGNPYAV 9

RESULT 3
US-10-177-390-6
; Sequence 6, Application US/10177390
; Publication No. US20030143743A1
GENERAL INFORMATION:
APPLICANT: Schuler, Gerold
APPLICANT: N.V. Antwerp Innovatiecentrum
TITLE OF INVENTION: Improved Transfection of Eucaryotic Cells with Linear
TITLE OF INVENTION: Polynucleotides by Electroporation
FILE REFERENCE: 021505wo/JH/ml
CURRENT APPLICATION NUMBER: US/10/177,390
CURRENT FILING DATE: 2002-06-20
NUMBER OF SEQ ID NOS: 34
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 6
LENGTH: 151
TYPE: PRT
ORGANISM: Human papillomavirus type 16
US-10-177-390-6

Query Match 100.0%; Score 52; DB 4; Length 151;
Best Local Similarity 100.0%; Pred. No. 0.15;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 YRDGNPYAV 9
Db 54 YRDGNPYAV 62

RESULT 4
US-10-484-063-20
; Sequence 20, Application US/10484063
; Publication No. US20050048467A1
GENERAL INFORMATION:
APPLICANT: SASTRY, K. JAGANNADHA
APPLICANT: TORTOLERO-LUNA, GUILTERMO
APPLICANT: FOLLEN, MICHELE
TITLE OF INVENTION: METHODS AND COMPOSITIONS RELATING TO HPV-ASSOCIATED
TITLE OF INVENTION: PRE-CANCEROUS AND CANCEROUS GROWTHS, INCLUDING CIN

FILE REFERENCE: UTSC:560US
CURRENT APPLICATION NUMBER: US/10/484,063
CURRENT FILING DATE: 2004-01-16
PRIOR APPLICATION NUMBER: PCT/US02/23198
PRIOR FILING DATE: 2002-07-19
PRIOR APPLICATION NUMBER: 60/306,809
PRIOR FILING DATE: 2001-07-20
NUMBER OF SEQ ID NOS: 27
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 20
LENGTH: 151
TYPE: PRT
ORGANISM: Human papillomavirus
US-10-484-063-20

Query Match 100.0%; Score 52; DB 5; Length 151;
Best Local Similarity 100.0%; Pred. No. 0.15; Indels 0; Gaps 0;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 YRDGNPYAV 9
Db 54 YRDGNPYAV 62

RESULT 5
US-10-484-063-27
Sequence 27, Application US/10484063
Publication No. US20050048467A1
GENERAL INFORMATION:
APPLICANT: SASTRY, K. JAGANNADHA
APPLICANT: TORTOLERO-LUNA, GUILLEMO
APPLICANT: FOLLEN, MICHELE
TITLE OF INVENTION: METHODS AND COMPOSITIONS RELATING TO HPV-ASSOCIATED
TITLE OF INVENTION: PRE-CANCEROUS AND CANCEROUS GROWTHS, INCLUDING CIN
FILE REFERENCE: UTSC:560US
CURRENT APPLICATION NUMBER: US/10/484,063
CURRENT FILING DATE: 2004-01-16
PRIOR APPLICATION NUMBER: PCT/US02/23198
PRIOR FILING DATE: 2002-07-19
PRIOR APPLICATION NUMBER: 60/306,809
PRIOR FILING DATE: 2001-07-20
NUMBER OF SEQ ID NOS: 27
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 27
LENGTH: 151
TYPE: PRT
ORGANISM: Human papillomavirus type 16
US-10-484-063-27

Query Match 100.0%; Score 52; DB 5; Length 151;
Best Local Similarity 100.0%; Pred. No. 0.15; Indels 0; Gaps 0;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 YRDGNPYAV 9
Db 54 YRDGNPYAV 62

RESULT 6
US-10-858-384-2
Sequence 2, Application US/10858384
Publication No. US20050033025A1
GENERAL INFORMATION:
APPLICANT: CHOPPIN, JEANNINE
APPLICANT: BOURGAULT VILLADA, ISABELLE
APPLICANT: GUILLET, JEAN-GERARD
APPLICANT: CONNAN, FRANCINE
APPLICANT: FERRIES, ESTELLE
TITLE OF INVENTION: POLYPEPTIDIC PROTEIN FRAGMENTS OF THE E6 PROTEIN
TITLE OF INVENTION: OR E7 OF HPV, THEIR PRODUCTION AND THEIR USE
FILE REFERENCE: 0508-1037-1
CURRENT APPLICATION NUMBER: US/10/858,384

CURRENT FILING DATE: 2004-06-02
PRIOR APPLICATION NUMBER: FR 9907012
PRIOR FILING DATE: 1999-06-03
NUMBER OF SEQ ID NOS: 24
SOFTWARE: PatentIn Ver. 3.2
SEQ ID NO 2
LENGTH: 158
TYPE: PRT
ORGANISM: Human Papillomavirus
US-10-858-384-2

Query Match 100.0%; Score 52; DB 5; Length 158;
Best Local Similarity 100.0%; Pred. No. 0.15; Indels 0; Gaps 0;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 YRDGNPYAV 9
Db 61 YRDGNPYAV 69

RESULT 7
US-10-367-057-16
Sequence 16, Application US/10367057
Publication No. US20050100554A1
GENERAL INFORMATION:
APPLICANT: Cuthill, Scott;
APPLICANT: Jackson, Amanda;
APPLICANT: Lewin, David A.;
APPLICANT: Ooi, Chean Eng
TITLE OF INVENTION: Complexes and Methods of Using Same
FILE REFERENCE: 21402-559
CURRENT APPLICATION NUMBER: US/10/367,057
CURRENT FILING DATE: 2003-02-14
PRIOR APPLICATION NUMBER: 60/256,911
PRIOR FILING DATE: 2002-02-14
NUMBER OF SEQ ID NOS: 198
SOFTWARE: Curaseqdist version 0.1
SEQ ID NO 16
LENGTH: 158
TYPE: PRT
ORGANISM: Homo sapiens
US-10-367-057-16

Query Match 100.0%; Score 52; DB 5; Length 158;
Best Local Similarity 100.0%; Pred. No. 0.15; Indels 0; Gaps 0;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 YRDGNPYAV 9
Db 61 YRDGNPYAV 69

RESULT 8
US-11-021-949-13
Sequence 13, Application US/11021949
Publication No. US20050142541A1
GENERAL INFORMATION:
APPLICANT: LU, PETER
APPLICANT: GARMAN, JONATHAN DAVID
APPLICANT: BEIMARES, MICHAEL P
APPLICANT: DIAZ-SARMIENTO, CHAMORRO SOMOZA
APPLICANT: SCHWEIZER, JOHANNES
TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
TITLE OF INVENTION: AND METHODS OF THEIR USE
FILE REFERENCE: VITA-012
CURRENT APPLICATION NUMBER: US/11/021,949
CURRENT FILING DATE: 2004-12-23
PRIOR APPLICATION NUMBER: 60/532,373
PRIOR FILING DATE: 2003-12-23
NUMBER OF SEQ ID NOS: 361
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 13
LENGTH: 158

TYPE: PRT
ORGANISM: human papilloma virus (HPV)
US-11-021-949-13

Query Match 100.0%; Score 52; DB 6; Length 158;
Best Local Similarity 100.0%; Pred. No. 0.15;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 YRDGNPYAV 9
Db 61 YRDGNPYAV 69

RESULT 9

US-10-472-724-2
Sequence 2, Application US/10472724
Publication No. US20040171806A1
GENERAL INFORMATION:
APPLICANT: Cid-Arregui, Angel
APPLICANT: Zur Hausen, Harald
TITLE OF INVENTION: Modified HPV E6 and E7 genes and proteins useful for vaccination
FILE REFERENCE: 4121-154
CURRENT APPLICATION NUMBER: US/10/472.724
CURRENT FILING DATE: 2003-09-17
PRIOR APPLICATION NUMBER: PCT/EP02/03271
PRIOR FILING DATE: 2002-03-22
PRIOR APPLICATION NUMBER: EP 01107271.7
PRIOR FILING DATE: 2001-03-23
NUMBER OF SEQ ID NOS: 27
SOFTWARE: Patentin version 3.2
SEQ ID NO 2
LENGTH: 171
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic Construct
US-10-472-724-2

Query Match 100.0%; Score 52; DB 4; Length 171;
Best Local Similarity 100.0%; Pred. No. 0.17;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 YRDGNPYAV 9
Db 66 YRDGNPYAV 74

RESULT 10

US-11-072-288-1
Sequence 1, Application US/11072288
Publication No. US20050159386A1
GENERAL INFORMATION:
APPLICANT: KIENV, Marie-Paule
APPLICANT: BALLOUT, Jean-Marc
APPLICANT: BIZOUARNE, Nadine
TITLE OF INVENTION: ANTITUMORAL COMPOSITION BASED ON IMMUNOGENIC
TITLE OF INVENTION: POLYPEPTIDE WITH MODIFIED CELL LOCATION
FILE REFERENCE: 017753-122
CURRENT APPLICATION NUMBER: US/11/072.288
CURRENT FILING DATE: 2005-03-07
PRIOR APPLICATION NUMBER: US/09/462.993
PRIOR FILING DATE: 2000-04-17
PRIOR APPLICATION NUMBER: PCT/FR98/01576
PRIOR FILING DATE: 1998-07-17
PRIOR APPLICATION NUMBER: FR 97/09152
PRIOR FILING DATE: 1997-07-18
NUMBER OF SEQ ID NOS: 23
SOFTWARE: Patentin Ver. 2.2
SEQ ID NO 1
LENGTH: 243
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:

OTHER INFORMATION: Description of Artificial Sequence: Derived from
OTHER INFORMATION: human papillomavirus, strain HPV-16, E6 protein
OTHER INFORMATION: fused F protein signal, clone E6*TMF.
US-11-072-288-1

Query Match 100.0%; Score 52; DB 6; Length 243;
Best Local Similarity 100.0%; Pred. No. 0.24;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 YRDGNPYAV 9
Db 89 YRDGNPYAV 97

RESULT 11

US-09-367-309A-1
Sequence 1, Application US/09367309A
Publication No. US20020081329A1
GENERAL INFORMATION:
APPLICANT: MACFARLAN, RODERICK I.
APPLICANT: MALLIAROS, JIM
TITLE OF INVENTION: CHELATING IMMUNOSTIMULATING COMPLEXES
FILE REFERENCE: 017227/0149
CURRENT APPLICATION NUMBER: US/09/367.309A
CURRENT FILING DATE: 1999-08-11
PRIOR APPLICATION NUMBER: PCT/AU98/00080
PRIOR FILING DATE: 1998-02-13
PRIOR APPLICATION NUMBER: AU PO 5178
PRIOR FILING DATE: 1997-02-19
NUMBER OF SEQ ID NOS: 6
SOFTWARE: Patentin Ver. 2.1
SEQ ID NO 1
LENGTH: 266
TYPE: PRT
ORGANISM: Human papillomavirus type 16
US-09-367-309A-1

Query Match 100.0%; Score 52; DB 3; Length 266;
Best Local Similarity 100.0%; Pred. No. 0.27;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 YRDGNPYAV 9
Db 61 YRDGNPYAV 69

RESULT 12

US-10-000-903-4
Sequence 4, Application US/10000903
Publication No. US20020182221A1
GENERAL INFORMATION:
APPLICANT: Bruck, Claudine
APPLICANT: Cabezon Silva, Teresa
APPLICANT: Delisse, Anne-Marie Eva Fernandez
APPLICANT: Gerard, Catherine Marie Ghislaine
APPLICANT: Lombardo-Bencheikh, Angela
TITLE OF INVENTION: Vaccine
FILE REFERENCE: B45107
CURRENT APPLICATION NUMBER: US/10/000.903
CURRENT FILING DATE: 2001-10-01
PRIOR APPLICATION NUMBER: PCT/EP98/05285
PRIOR FILING DATE: 1998-08-17
PRIOR APPLICATION NUMBER: GB 9717953.5
PRIOR FILING DATE: 1997-08-22
NUMBER OF SEQ ID NOS: 23
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 4
LENGTH: 273
TYPE: PRT
ORGANISM: Homo sapien
US-10-000-903-4

Query Match 100.0%; Score 52; DB 4; Length 273;

Best Local Similarity 100.0%; Pred. No. 0.28; Indels 0; Gaps 0;
Matches 9; Conservative 0; Mismatches 0;

QY 1 YRDGNPYAV 9
|||||
Db 167 YRDGNPYAV 175

RESULT 13
US-10-899-771-4
; Sequence 4, Application US/10899771
; Publication No. US20050031638A1
; GENERAL INFORMATION:
; APPLICANT: Dalemans, Wilfried L.J.
; APPLICANT: Gerard, Catherine Marie Ghislaine
; TITLE OF INVENTION: Compositions Comprising Human Papilloma Virus Proteins
; TITLE OF INVENTION: and Fusion Proteins Adjuvanted with a Cpg Oligonucleotide
; FILE REFERENCE: B45124
; CURRENT APPLICATION NUMBER: US/10/899,771
; CURRENT FILING DATE: 2004-07-27
; PRIOR APPLICATION NUMBER: US/09/581,976
; PRIOR FILING DATE: 2000-06-20
; PRIOR APPLICATION NUMBER: PCT/EP98/08563
; PRIOR FILING DATE: 1998-12-18
; PRIOR APPLICATION NUMBER: GB 9727262.9
; PRIOR FILING DATE: 1997-12-24
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 4
; LENGTH: 273
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Chimeric protein (protein D from Haemophilus
; OTHER INFORMATION: Influenzae B and E6 from Human papilloma virus type
; OTHER INFORMATION: 16)
US-10-899-771-4

Query Match 100.0%; Score 52; DB 5; Length 273;
Best Local Similarity 100.0%; Pred. No. 0.28; Indels 0; Gaps 0;
Matches 9; Conservative 0; Mismatches 0;

QY 1 YRDGNPYAV 9
|||||
Db 167 YRDGNPYAV 175

RESULT 14
US-10-000-903-10
; Sequence 10, Application US/10000903
; Publication No. US20020182221A1
; GENERAL INFORMATION:
; APPLICANT: Bruck, Claudine
; APPLICANT: Cabezon Silva, Teresa
; APPLICANT: Delisse, Anne-Marie Eva Bernande
; APPLICANT: Gerard, Catherine Marie Ghislaine
; APPLICANT: Lombardo-Bencheikh, Angela
; TITLE OF INVENTION: Vaccine
; FILE REFERENCE: B45107
; CURRENT APPLICATION NUMBER: US/10/000,903
; CURRENT FILING DATE: 2001-10-01
; PRIOR APPLICATION NUMBER: PCT/EP98/05285
; PRIOR FILING DATE: 1998-08-17
; PRIOR APPLICATION NUMBER: GB 9717953.5
; PRIOR FILING DATE: 1997-08-22
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 10
; LENGTH: 292
; TYPE: PRT
; ORGANISM: Homo sapien
US-10-000-903-10

Query Match 100.0%; Score 52; DB 4; Length 292;
Best Local Similarity 100.0%; Pred. No. 0.3; Indels 0; Gaps 0;
Matches 9; Conservative 0; Mismatches 0;

QY 1 YRDGNPYAV 9
|||||
Db 186 YRDGNPYAV 194

RESULT 15
US-10-899-771-10
; Sequence 10, Application US/10899771
; Publication No. US20050031638A1
; GENERAL INFORMATION:
; APPLICANT: Dalemans, Wilfried L.J.
; APPLICANT: Gerard, Catherine Marie Ghislaine
; TITLE OF INVENTION: Compositions Comprising Human Papilloma Virus Proteins
; TITLE OF INVENTION: and Fusion Proteins Adjuvanted with a Cpg Oligonucleotide
; FILE REFERENCE: B45124
; CURRENT APPLICATION NUMBER: US/10/899,771
; CURRENT FILING DATE: 2004-07-27
; PRIOR APPLICATION NUMBER: US/09/581,976
; PRIOR FILING DATE: 2000-06-20
; PRIOR APPLICATION NUMBER: PCT/EP98/08563
; PRIOR FILING DATE: 1998-12-18
; PRIOR APPLICATION NUMBER: GB 9727262.9
; PRIOR FILING DATE: 1997-12-24
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 10
; LENGTH: 292
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Chimeric protein (Clyta from Streptococcus
; OTHER INFORMATION: pneumoniae and E6 from Human papilloma virus type
; OTHER INFORMATION: 16)
US-10-899-771-10

Query Match 100.0%; Score 52; DB 5; Length 292;
Best Local Similarity 100.0%; Pred. No. 0.3; Indels 0; Gaps 0;
Matches 9; Conservative 0; Mismatches 0;

QY 1 YRDGNPYAV 9
|||||
Db 186 YRDGNPYAV 194

RESULT 16
US-10-000-903-6
; Sequence 6, Application US/10000903
; Publication No. US20020182221A1
; GENERAL INFORMATION:
; APPLICANT: Bruck, Claudine
; APPLICANT: Cabezon Silva, Teresa
; APPLICANT: Delisse, Anne-Marie Eva Bernande
; APPLICANT: Gerard, Catherine Marie Ghislaine
; APPLICANT: Lombardo-Bencheikh, Angela
; TITLE OF INVENTION: Vaccine
; FILE REFERENCE: B45107
; CURRENT APPLICATION NUMBER: US/10/000,903
; CURRENT FILING DATE: 2001-10-01
; PRIOR APPLICATION NUMBER: PCT/EP98/05285
; PRIOR FILING DATE: 1998-08-17
; PRIOR APPLICATION NUMBER: GB 9717953.5
; PRIOR FILING DATE: 1997-08-22
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 6
; LENGTH: 371
; TYPE: PRT
; ORGANISM: Homo sapien
US-10-000-903-6

Query Match 100.0%; Score 52; DB 4; Length 371;
Best Local Similarity 100.0%; Pred. No. 0.39;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 YRDGNPYAV 9
Db 167 YRDGNPYAV 175

RESULT 17
US-10-899-771-6
; Sequence 6, Application US/10899771
; Publication No. US20050031638A1
; GENERAL INFORMATION:
; APPLICANT: Dalemans, Wilfried L.J.
; APPLICANT: Gerard, Catherine Marie Ghislaine
; TITLE OF INVENTION: Compositions Comprising Human Papilloma Virus Proteins
; TITLE OF INVENTION: and Fusion Proteins Adjuvanted with a Cpg Oligonucleotide
; FILE REFERENCE: B45124
; CURRENT APPLICATION NUMBER: US/10/899,771
; CURRENT FILING DATE: 2004-07-27
; PRIOR APPLICATION NUMBER: US/09/581,976
; PRIOR FILING DATE: 2000-06-20
; PRIOR APPLICATION NUMBER: PCT/EP98/08563
; PRIOR FILING DATE: 1998-12-18
; PRIOR APPLICATION NUMBER: GB 9727262.9
; PRIOR FILING DATE: 1997-12-24
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 6
; LENGTH: 371
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Chimeric protein (protein D from Haemophilus
; OTHER INFORMATION: Influenza B and E6E7 fusion from Human papilloma
; OTHER INFORMATION: virus type 16)
US-10-899-771-6

Query Match 100.0%; Score 52; DB 5; Length 371;
Best Local Similarity 100.0%; Pred. No. 0.39;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 YRDGNPYAV 9
Db 167 YRDGNPYAV 175

RESULT 18
US-10-000-903-14
; Sequence 14, Application US/10000903
; Publication No. US20020182221A1
; GENERAL INFORMATION:
; APPLICANT: Bruck, Claudine
; APPLICANT: Gabizon Silva, Teresa
; APPLICANT: Deliese, Anne-Marie Eva Fernande
; APPLICANT: Gerard, Catherine Marie Ghislaine
; APPLICANT: Lombardo-Benchetkn, Angela
; TITLE OF INVENTION: Vaccine
; FILE REFERENCE: B45107
; CURRENT APPLICATION NUMBER: US/10/000,903
; CURRENT FILING DATE: 2001-10-01
; PRIOR APPLICATION NUMBER: PCT/EP98/05285
; PRIOR FILING DATE: 1998-08-17
; PRIOR APPLICATION NUMBER: GB 9717953.5
; PRIOR FILING DATE: 1997-08-22
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 14
; LENGTH: 390
; TYPE: PRT
; ORGANISM: Homo sapien

US-10-000-903-14

Query Match 100.0%; Score 52; DB 4; Length 390;
Best Local Similarity 100.0%; Pred. No. 0.41;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 YRDGNPYAV 9
Db 186 YRDGNPYAV 194

RESULT 19
US-10-899-771-14
; Sequence 14, Application US/10899771
; Publication No. US20050031638A1
; GENERAL INFORMATION:
; APPLICANT: Dalemans, Wilfried L.J.
; APPLICANT: Gerard, Catherine Marie Ghislaine
; TITLE OF INVENTION: Compositions Comprising Human Papilloma Virus Proteins
; TITLE OF INVENTION: and Fusion Proteins Adjuvanted with a Cpg Oligonucleotide
; FILE REFERENCE: B45124
; CURRENT APPLICATION NUMBER: US/10/899,771
; CURRENT FILING DATE: 2004-07-27
; PRIOR APPLICATION NUMBER: US/09/581,976
; PRIOR FILING DATE: 2000-06-20
; PRIOR APPLICATION NUMBER: PCT/EP98/08563
; PRIOR FILING DATE: 1998-12-18
; PRIOR APPLICATION NUMBER: GB 9727262.9
; PRIOR FILING DATE: 1997-12-24
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 14
; LENGTH: 390
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Chimeric protein (Clyca from Streptococcus
; OTHER INFORMATION: pneumoniae and E6E7 fusion from Human papilloma
; OTHER INFORMATION: virus type 16)
US-10-899-771-14

Query Match 100.0%; Score 52; DB 5; Length 390;
Best Local Similarity 100.0%; Pred. No. 0.41;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 YRDGNPYAV 9
Db 186 YRDGNPYAV 194

RESULT 20
US-09-739-466C-11
; Sequence 11, Application US/09739466C
; Publication No. US20050107585A1
; GENERAL INFORMATION:
; APPLICANT: MURRAY, JOSEPH S
; APPLICANT: SAHMAN, TERUNA J
; APPLICANT: HU, YONGBO
; TITLE OF INVENTION: SIGNAL-1/SIGNAL-2 BIFUNCTIONAL PEPTIDE INHIBITORS
; FILE REFERENCE: 23902-08805
; CURRENT APPLICATION NUMBER: US/09/739,466C
; CURRENT FILING DATE: 2000-12-18
; NUMBER OF SEQ ID NOS: 46
; SOFTWARE: Patentin Ver. 3.2
; SEQ ID NO 11
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-09-739-466C-11

Query Match 92.3%; Score 48; DB 3; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.7e+06;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 YRDGNPYA 8
|||||
Db 2 YRDGNPYA 9

RESULT 21

US-11-949-15
; Sequence 15, Application US/11021949
; Publication No. US20050142541A1
; GENERAL INFORMATION:
; APPLICANT: LU, PETER
; APPLICANT: GARMAN, JONATHAN DAVID
; APPLICANT: BELMARES, MICHAEL P.
; APPLICANT: DIAZ-SARMIENTO, CHAMORRO SOMOZA
; APPLICANT: SCHWEIZER, JOHANNES
; TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
; FILE REFERENCE: VITA-012
; CURRENT APPLICATION NUMBER: US/11/021,949
; CURRENT FILING DATE: 2004-12-23
; PRIOR APPLICATION NUMBER: 60/532,373
; PRIOR FILING DATE: 2003-12-23
; NUMBER OF SEQ ID NOS: 361
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 15
; LENGTH: 149
; TYPE: PRT
; ORGANISM: human papilloma virus (HPV)
US-11-021-949-15

Query Match 92.3%; Score 48; DB 6; Length 149;
Best Local Similarity 88.9%; Pred. No. 0.79;
Matches 8; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 YRDGNPYAV 9
|||||
Db 54 YRDGNPYAV 62

RESULT 22
US-10-751-845-126
; Sequence 126, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
; APPLICANT: Hedley, Mary Lynne
; APPLICANT: Urban, Robert G.
; APPLICANT: Chicz, Roman M.
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES
; FILE REFERENCE: 08191-013001
; CURRENT APPLICATION NUMBER: US/10/751,845
; CURRENT FILING DATE: 2004-01-05
; PRIOR APPLICATION NUMBER: US/09/664,225
; PRIOR FILING DATE: 2000-08-18
; PRIOR APPLICATION NUMBER: US 60/169,846
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: US 60/154,665
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 163
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 126
; LENGTH: 117
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Artificial fusion sequence
US-10-751-845-126

Query Match 88.5%; Score 46; DB 5; Length 117;
Best Local Similarity 77.8%; Pred. No. 1.4;
Matches 7; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 YRDGNPYAV 9

Db 38 YRDGNPYKI 46
|||||

RESULT 23

US-11-021-949-24
; Sequence 24, Application US/11021949
; Publication No. US20050142541A1
; GENERAL INFORMATION:
; APPLICANT: LU, PETER
; APPLICANT: GARMAN, JONATHAN DAVID
; APPLICANT: BELMARES, MICHAEL P.
; APPLICANT: DIAZ-SARMIENTO, CHAMORRO SOMOZA
; APPLICANT: SCHWEIZER, JOHANNES
; TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
; FILE REFERENCE: VITA-012
; CURRENT APPLICATION NUMBER: US/11/021,949
; CURRENT FILING DATE: 2004-12-23
; PRIOR APPLICATION NUMBER: 60/532,373
; PRIOR FILING DATE: 2003-12-23
; NUMBER OF SEQ ID NOS: 361
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 24
; LENGTH: 151
; TYPE: PRT
; ORGANISM: human papilloma virus (HPV)
US-11-021-949-24

Query Match 88.5%; Score 46; DB 6; Length 151;
Best Local Similarity 88.9%; Pred. No. 1.9;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 YRDGNPYAV 9
|||||
Db 54 YRDGNPYAV 62

RESULT 24
US-10-751-845-157
; Sequence 157, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
; APPLICANT: Hedley, Mary Lynne
; APPLICANT: Urban, Robert G.
; APPLICANT: Chicz, Roman M.
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES
; FILE REFERENCE: 08191-013001
; CURRENT APPLICATION NUMBER: US/10/751,845
; CURRENT FILING DATE: 2004-01-05
; PRIOR APPLICATION NUMBER: US/09/664,225
; PRIOR FILING DATE: 2000-08-18
; PRIOR APPLICATION NUMBER: US 60/169,846
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: US 60/154,665
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 163
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 157
; LENGTH: 236
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Artificial fusion sequence
US-10-751-845-157

Query Match 88.5%; Score 46; DB 5; Length 236;
Best Local Similarity 77.8%; Pred. No. 3;
Matches 7; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 YRDGNPYAV 9
|||||
Db 38 YRDGNPYKI 46

RESULT 25
US-10-751-845-158
; Sequence 158, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
; APPLICANT: Hedley, Mary Lynne
; APPLICANT: Urban, Robert G.
; APPLICANT: Chicz, Roman M.
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES
; FILE REFERENCE: 08191-013001
; CURRENT APPLICATION NUMBER: US/10/751,845
; CURRENT FILING DATE: 2004-01-05
; PRIOR APPLICATION NUMBER: US/09/664,225
; PRIOR FILING DATE: 2000-08-18
; PRIOR APPLICATION NUMBER: US 60/169,846
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: US 60/154,665
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 163
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 158
; LENGTH: 237
; TYPE: PRT
; ORGANISM: Artificial Sequence
; OTHER INFORMATION: Artificial fusion sequence
US-10-751-845-158

Query Match 88.5%; Score 46; DB 5; Length 237;
Best Local Similarity 77.8%; Pred. No. 3;
Matches 7; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 YRDGNPYAV 9
|||||
Db 39 YRDGNPYKI 47

RESULT 26
US-10-751-845-160
; Sequence 160, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
; APPLICANT: Hedley, Mary Lynne
; APPLICANT: Urban, Robert G.
; APPLICANT: Chicz, Roman M.
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES
; FILE REFERENCE: 08191-013001
; CURRENT APPLICATION NUMBER: US/10/751,845
; CURRENT FILING DATE: 2004-01-05
; PRIOR APPLICATION NUMBER: US/09/664,225
; PRIOR FILING DATE: 2000-08-18
; PRIOR APPLICATION NUMBER: US 60/169,846
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: US 60/154,665
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 163
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 160
; LENGTH: 261
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Artificial fusion sequence
US-10-751-845-160

Query Match 88.5%; Score 46; DB 5; Length 261;
Best Local Similarity 77.8%; Pred. No. 3.4;
Matches 7; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Db 63 YRDGNPYKI 71
RESULT 27
US-10-612-818-4
; Sequence 4, Application US/10612818
; Publication No. US20040110925A1
; GENERAL INFORMATION:
; APPLICANT: Impact Diagnostics
; APPLICANT: Impact Diagnostics
; TITLE OF INVENTION: Peptides from the E2, E6 and E7 Proteins of Human Papillomavirus
; TITLE OF INVENTION: 18 for Detecting and/or Diagnosing Cervical and Other Human Papil
; FILE REFERENCE: 3352-2-2
; CURRENT APPLICATION NUMBER: US/10/612,818
; CURRENT FILING DATE: 2003-07-01
; PRIOR APPLICATION NUMBER: US 60/394,172
; PRIOR FILING DATE: 2002-07-02
; PRIOR APPLICATION NUMBER: US 09/828,645
; PRIOR FILING DATE: 2001-04-05
; NUMBER OF SEQ ID NOS: 8
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 4
; LENGTH: 22
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Derived from the B6 early coding region of HPV 16
US-10-612-818-4

Query Match 86.5%; Score 45; DB 4; Length 22;
Best Local Similarity 100.0%; Pred. No. 0.36;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 RDGNPYAV 9
|||||
Db 1 RDGNPYAV 8

RESULT 28
US-10-995-902-4
; Sequence 4, Application US/10995902
; Publication No. US20050221295A1
; GENERAL INFORMATION:
; APPLICANT: Impact Diagnostics
; APPLICANT: Impact Diagnostics
; TITLE OF INVENTION: Peptides from the E2, E6 and E7 Proteins of Human Papillomavirus
; TITLE OF INVENTION: 18 for Detecting and/or Diagnosing Cervical and Other Human Papil
; FILE REFERENCE: 3352-2-2
; CURRENT APPLICATION NUMBER: US/10/995,902
; CURRENT FILING DATE: 2004-11-23
; PRIOR APPLICATION NUMBER: US 60/394,172
; PRIOR FILING DATE: 2002-07-02
; PRIOR APPLICATION NUMBER: US 09/828,645
; PRIOR FILING DATE: 2001-04-05
; NUMBER OF SEQ ID NOS: 8
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 4
; LENGTH: 22
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Derived from the B6 early coding region of HPV 16
US-10-995-902-4

Query Match 86.5%; Score 45; DB 5; Length 22;
Best Local Similarity 100.0%; Pred. No. 0.36;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 RDGNPYAV 9
|||||
Db 1 RDGNPYAV 8

Db 15 YRDGNPY 21

RESULT 29

US-10-751-845-83
Sequence 83, Application US/10751845
Publication No. US20050100928A1
GENERAL INFORMATION:
APPLICANT: Hedley, Mary Lynne
APPLICANT: Urban, Robert G.
APPLICANT: Chicz, Roman M.
TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDES
FILE REFERENCE: 08191-013001
CURRENT APPLICATION NUMBER: US/10/751,845
CURRENT FILING DATE: 2004-01-05
PRIOR APPLICATION NUMBER: US/09/664,225
PRIOR FILING DATE: 2000-08-18
PRIOR APPLICATION NUMBER: US 60/169,846
PRIOR FILING DATE: 1999-12-09
PRIOR APPLICATION NUMBER: US 60/154,665
PRIOR FILING DATE: 1999-09-16
NUMBER OF SEQ ID NOS: 163
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 83
LENGTH: 9
TYPE: PRT
ORGANISM: Human Papilloma virus
US-10-751-845-83

Query Match 84.6%; Score 44; DB 5; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.7e+06; Mismatches 0; Indels 0; Gaps 0;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 YRDGNPY 7
Db 3 YRDGNPY 9

RESULT 30

US-10-476-570-54
Sequence 54, Application US/10476570
Publication No. US20040170644A1
GENERAL INFORMATION:
APPLICANT: COMMISSARIAT A L'ENERGIE ATOMIQUE
APPLICANT: INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE
APPLICANT: MAILLIERE, Bernard
APPLICANT: BOURGAULT-VILLADA, Isabelle
APPLICANT: POUVELE-MORATILLE, Sandra
APPLICANT: GUILLET, Jean-Gerard
TITLE OF INVENTION: Mixture of peptides derived from E6 and/or E7
FILE REFERENCE: 45636-5071-US
CURRENT APPLICATION NUMBER: US/10/476,570
CURRENT FILING DATE: 2003-11-04
PRIOR APPLICATION NUMBER: PCT/FR02/01533
PRIOR FILING DATE: 2002-05-03
PRIOR APPLICATION NUMBER: FR 01 05980
PRIOR FILING DATE: 2001-05-04
NUMBER OF SEQ ID NOS: 63
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 54
LENGTH: 21
TYPE: PRT
ORGANISM: artificial sequence
FEATURE:
OTHER INFORMATION: Description of the artificial sequence: peptide E6 46-67
US-10-476-570-54

Query Match 84.6%; Score 44; DB 4; Length 21;
Best Local Similarity 100.0%; Pred. No. 0.52; Mismatches 0; Indels 0; Gaps 0;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 YRDGNPY 7
Db 3 YRDGNPY 9

Db 15 YRDGNPY 21

RESULT 31

US-10-476-570-26
Sequence 26, Application US/10476570
Publication No. US20040170644A1
GENERAL INFORMATION:
APPLICANT: COMMISSARIAT A L'ENERGIE ATOMIQUE
APPLICANT: INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE
APPLICANT: MAILLIERE, Bernard
APPLICANT: BOURGAULT-VILLADA, Isabelle
APPLICANT: POUVELE-MORATILLE, Sandra
APPLICANT: GUILLET, Jean-Gerard
TITLE OF INVENTION: Mixture of peptides derived from E6 and/or E7
FILE REFERENCE: 45636-5071-US
CURRENT APPLICATION NUMBER: US/10/476,570
CURRENT FILING DATE: 2003-11-04
PRIOR APPLICATION NUMBER: PCT/FR02/01533
PRIOR FILING DATE: 2002-05-03
PRIOR APPLICATION NUMBER: FR 01 05980
PRIOR FILING DATE: 2001-05-04
NUMBER OF SEQ ID NOS: 63
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 26
LENGTH: 22
TYPE: PRT
ORGANISM: artificial sequence
FEATURE:
OTHER INFORMATION: Description of the artificial sequence: peptide E6 45-67
US-10-476-570-26

Query Match 84.6%; Score 44; DB 4; Length 22;
Best Local Similarity 100.0%; Pred. No. 0.55; Mismatches 0; Indels 0; Gaps 0;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 YRDGNPY 7
Db 16 YRDGNPY 22

RESULT 32

US-10-858-384-6
Sequence 6, Application US/10858384
Publication No. US2005003025A1
GENERAL INFORMATION:
APPLICANT: CHOPPIN, JEANNINE
APPLICANT: BOURGAULT-VILLADA, ISABELLE
APPLICANT: GUILLET, JEAN-GERARD
APPLICANT: CONNAN, FRANCINE
APPLICANT: FERRIES, ESTELLE
TITLE OF INVENTION: POLYPEPTIDIC PROTEIN FRAGMENTS OF THE E6 PROTEIN
FILE REFERENCE: 0508-1037-1
CURRENT APPLICATION NUMBER: US/10/858,384
CURRENT FILING DATE: 2004-06-02
PRIOR APPLICATION NUMBER: FR 9907012
PRIOR FILING DATE: 1999-06-03
NUMBER OF SEQ ID NOS: 24
SOFTWARE: PatentIn Ver. 3.2
SEQ ID NO 6
LENGTH: 22
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of the Artificial Sequence: Peptide fragment
US-10-858-384-6

Query Match 84.6%; Score 44; DB 5; Length 22;
Best Local Similarity 100.0%; Pred. No. 0.55; Mismatches 0; Indels 0; Gaps 0;

Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 YRDGNPY 7
DB 16 YRDGNPY 22

RESULT 33
US-10-476-570-27
; Sequence 27, Application US/10476570
; Publication No. US20040170644A1
; GENERAL INFORMATION:
; APPLICANT: COMMISSARIAT A L'ENERGIE ATOMIQUE
; APPLICANT: INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE
; APPLICANT: MAILLIERE, Bernard
; APPLICANT: BOURGAULT-VILLADA, Isabelle
; APPLICANT: BOURGAULT-MORATILLE, Sandra
; APPLICANT: GUILLET, Jean-Gerard
; TITLE OF INVENTION: Mixture of peptides derived from B6 and/or E7
; TITLE OF INVENTION: Papillomavirus proteins and uses thereof
; FILE REFERENCE: 45636-5071-US
; CURRENT FILING DATE: 2003-11-04
; PRIOR APPLICATION NUMBER: PCT/FR02/01533
; PRIOR FILING DATE: 2002-05-03
; PRIOR APPLICATION NUMBER: FR 01 05980
; PRIOR FILING DATE: 2001-05-04
; NUMBER OF SEQ ID NOS: 63
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 27
; LENGTH: 23
; TYPE: PRT
; ORGANISM: artificial sequence
; FEATURE:
; OTHER INFORMATION: Description of the artificial sequence: peptide B6 44-67
US-10-476-570-27

Query Match 84.6%; Score 44; DB 4; Length 23;
Best Local Similarity 100.0%; Pred. No. 0.57;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 YRDGNPY 7
DB 17 YRDGNPY 23

RESULT 34
US-10-751-845-65
; Sequence 65, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
; APPLICANT: Hedley, Mary Lynne
; APPLICANT: Urban, Robert G.
; APPLICANT: Chica, Roman M.
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES
; FILE REFERENCE: 08191-013001
; CURRENT APPLICATION NUMBER: US/10/751,845
; CURRENT FILING DATE: 2004-01-05
; PRIOR APPLICATION NUMBER: US/09/664,225
; PRIOR FILING DATE: 2000-08-18
; PRIOR APPLICATION NUMBER: US 60/169,846
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: US 60/154,665
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 163
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 65
; LENGTH: 24
; TYPE: PRT
; ORGANISM: Human Papilloma virus
US-10-751-845-65

Query Match 84.6%; Score 44; DB 5; Length 24;

Best Local Similarity 100.0%; Pred. No. 0.6;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 YRDGNPY 7
DB 18 YRDGNPY 24

RESULT 35
US-11-021-949-17
; Sequence 17, Application US/11021949
; Publication No. US20050142541A1
; GENERAL INFORMATION:
; APPLICANT: LU, PETER
; APPLICANT: GARMAN, JONATHAN DAVID
; APPLICANT: BELMARES, MICHAEL P.
; APPLICANT: DIAZ-SARMIENTO, CHAMORRO SOMOZA
; APPLICANT: SCHWEIZER, JOHANNES
; TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
; TITLE OF INVENTION: AND METHODS OF THEIR USE
; FILE REFERENCE: VITA-012
; CURRENT APPLICATION NUMBER: US/11/021,949
; CURRENT FILING DATE: 2004-12-23
; PRIOR APPLICATION NUMBER: 60/532,373
; PRIOR FILING DATE: 2003-12-23
; NUMBER OF SEQ ID NOS: 361
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 17
; LENGTH: 148
; TYPE: PRT
; ORGANISM: human papilloma virus (HPV)
US-11-021-949-17

Query Match 80.8%; Score 42; DB 6; Length 148;
Best Local Similarity 77.8%; Pred. No. 9.9;
Matches 7; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 YRDGNPYAV 9
DB 54 YRDNNPYGV 62

RESULT 36
US-10-161-097-42
; Sequence 42, Application US/10161097
; Publication No. US20030096404A1
; GENERAL INFORMATION:
; APPLICANT: ROSENZWEIG, Michael
; APPLICANT: PYKETT, Mark J.
; APPLICANT: SCADDEN, David T.
; APPLICANT: POZNANSKY, Mark C.
; TITLE OF INVENTION: LYMPHOID TISSUE-SPECIFIC CELL PRODUCTION
; TITLE OF INVENTION: FROM HEMATOPOIETIC PROGENITOR CELLS IN THREE-DIMENSIONAL
; FILE REFERENCE: C1005/7012/KA/ERG
; CURRENT APPLICATION NUMBER: US/10/161,097
; CURRENT FILING DATE: 2002-05-31
; PRIOR APPLICATION NUMBER: US/09/574,749
; PRIOR FILING DATE: 2002-05-31
; PRIOR APPLICATION NUMBER: US 60/107,972
; PRIOR FILING DATE: 1998-11-12
; PRIOR APPLICATION NUMBER: PCT/US99/26795
; PRIOR FILING DATE: 1999-11-12
; PRIOR APPLICATION NUMBER: US 09/524,749
; PRIOR FILING DATE: 2000-05-18
; NUMBER OF SEQ ID NOS: 58
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 42
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Papilloma source

US-10-161-097-42

Query Match

Best Local Similarity 78.8%; Score 41; DB 4; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.7e+06;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 RDGNPYA 8

DB 3 YSDGNPYGI 9

RESULT 37

US-10-424-599-270568
; Sequence 270568, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa Thomas J
; APPLICANT: Kovalic David K
; APPLICANT: Zhou Yihua
; APPLICANT: Cao Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated with
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 270568
; LENGTH: 436
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_86340C.1.pep
US-10-424-599-270568

QY 1 YRDGNPYAV 9

DB 357 YSDGNPYGI 365

Query Match 78.8%; Score 41; DB 4; Length 436;
Best Local Similarity 66.7%; Pred. No. 49;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

RESULT 38

US-10-425-114-45886
; Sequence 45886, Application US/10425114
; Publication No. US20040034888A1
; GENERAL INFORMATION:
; APPLICANT: Liu, Jindong
; APPLICANT: Zhou, Yihua
; APPLICANT: Kovalic, David K.
; APPLICANT: Screen, Steven E.
; APPLICANT: Tabaska, Jack E.
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated with
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53113)B
; CURRENT APPLICATION NUMBER: US/10/425,114
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 73128
; SEQ ID NO 45886
; LENGTH: 443
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; OTHER INFORMATION: Clone ID: 701061102_FLI.pep
US-10-425-114-45886

QY 1 YRDGNPYAV 9

Query Match 78.8%; Score 41; DB 4; Length 443;
Best Local Similarity 66.7%; Pred. No. 49;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

DB 364 YSDGNPYGI 372

RESULT 39

US-10-425-114-46250
; Sequence 46250, Application US/10425114
; Publication No. US20040034888A1
; GENERAL INFORMATION:
; APPLICANT: Liu, Jindong
; APPLICANT: Zhou, Yihua
; APPLICANT: Kovalic, David K.
; APPLICANT: Screen, Steven E.
; APPLICANT: Tabaska, Jack E.
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated with
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53113)B
; CURRENT APPLICATION NUMBER: US/10/425,114
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 73128
; SEQ ID NO 46250
; LENGTH: 443
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; OTHER INFORMATION: Clone ID: 701148747_FLI.pep
US-10-425-114-46250

QY 1 YRDGNPYAV 9

DB 364 YSDGNPYGI 372

Query Match 78.8%; Score 41; DB 4; Length 443;
Best Local Similarity 66.7%; Pred. No. 49;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

RESULT 40

US-10-425-114-51704
; Sequence 51704, Application US/10425114
; Publication No. US20040034888A1
; GENERAL INFORMATION:
; APPLICANT: Liu, Jindong
; APPLICANT: Zhou, Yihua
; APPLICANT: Kovalic, David K.
; APPLICANT: Screen, Steven E.
; APPLICANT: Tabaska, Jack E.
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated with
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53113)B
; CURRENT APPLICATION NUMBER: US/10/425,114
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 73128
; SEQ ID NO 51704
; LENGTH: 443
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; OTHER INFORMATION: Clone ID: 700873423_FLI.pep
US-10-425-114-51704

QY 1 YRDGNPYAV 9

DB 364 YSDGNPYGI 372

Query Match 78.8%; Score 41; DB 4; Length 443;
Best Local Similarity 66.7%; Pred. No. 49;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 YRDGNPYAV 9

DB 364 YSDGNPYGI 372

Query Match 78.8%; Score 41; DB 4; Length 443;
Best Local Similarity 66.7%; Pred. No. 49;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

RESULT 41

```
US-11-021-949-21
; Sequence 21, Application US/11021949
; Publication No. US20050142541A1
; GENERAL INFORMATION:
; APPLICANT: LU, PETER
; APPLICANT: GARMAN, JONATHAN DAVID
; APPLICANT: BELMARES, MICHAEL P.
; APPLICANT: DIAZ-SARMIENTO, CHAMORO SOMOZA
; APPLICANT: SCHWEIZER, JOHANNES
; TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
; FILE REFERENCE: VITA-012
; CURRENT APPLICATION NUMBER: US/11/021,949
; PRIOR FILING DATE: 2004-12-23
; PRIOR FILING DATE: 2003-12-23
; NUMBER OF SEQ ID NOS: 361
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 21
; LENGTH: 154
; TYPE: PRT
; ORGANISM: human papilloma virus (HPV)
US-11-021-949-21

Query Match      76.9%; Score 40; DB 6; Length 154;
Best Local Similarity 77.8%; Pred. No. 24;
Matches 7; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 YRDGNPYAV 9
Db 58 YRDGYPYGV 66

RESULT 42
US-11-021-949-16
; Sequence 16, Application US/11021949
; Publication No. US20050142541A1
; GENERAL INFORMATION:
; APPLICANT: LU, PETER
; APPLICANT: GARMAN, JONATHAN DAVID
; APPLICANT: BELMARES, MICHAEL P.
; APPLICANT: DIAZ-SARMIENTO, CHAMORO SOMOZA
; APPLICANT: SCHWEIZER, JOHANNES
; TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
; FILE REFERENCE: VITA-012
; CURRENT APPLICATION NUMBER: US/11/021,949
; PRIOR FILING DATE: 2004-12-23
; PRIOR APPLICATION NUMBER: 60/532,373
; PRIOR FILING DATE: 2003-12-23
; NUMBER OF SEQ ID NOS: 361
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 16
; LENGTH: 149
; TYPE: PRT
; ORGANISM: human papilloma virus (HPV)
US-11-021-949-16

Query Match      75.0%; Score 39; DB 6; Length 149;
Best Local Similarity 55.6%; Pred. No. 36;
Matches 5; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 1 YRDGNPYAV 9
Db 54 YRDGNPFQI 62

RESULT 43
US-11-021-949-360
; Sequence 360, Application US/11021949
; Publication No. US20050142541A1
; GENERAL INFORMATION:
; APPLICANT: LU, PETER
```

```
; APPLICANT: GARMAN, JONATHAN DAVID
; APPLICANT: BELMARES, MICHAEL P.
; APPLICANT: DIAZ-SARMIENTO, CHAMORO SOMOZA
; APPLICANT: SCHWEIZER, JOHANNES
; TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
; FILE REFERENCE: VITA-012
; CURRENT APPLICATION NUMBER: US/11/021,949
; PRIOR FILING DATE: 2004-12-23
; PRIOR FILING DATE: 2003-12-23
; NUMBER OF SEQ ID NOS: 361
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 360
; LENGTH: 149
; TYPE: PRT
; ORGANISM: human papilloma virus (HPV)
US-11-021-949-360

Query Match      75.0%; Score 39; DB 6; Length 149;
Best Local Similarity 77.8%; Pred. No. 36;
Matches 7; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 YRDGNPYAV 9
Db 54 YRDGNPYGV 62

RESULT 44
US-10-437-963-195496
; Sequence 195496, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; APPLICANT: Wu, Wei
; APPLICANT: Boukharov, Andrey A.
; APPLICANT: Bardazuk, Brad
; APPLICANT: Li, Ping
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated with
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53221)B
; CURRENT APPLICATION NUMBER: US/10/437,963
; PRIOR FILING DATE: 2003-05-14
; NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 195496
; LENGTH: 374
; TYPE: PRT
; ORGANISM: Oryza sativa
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT4530_91439C.1.pap
US-10-437-963-195496

Query Match      75.0%; Score 39; DB 4; Length 374;
Best Local Similarity 85.7%; Pred. No. 96;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 YRDGNPY 7
Db 56 YEDGNPY 62

RESULT 45
US-10-437-963-195493
; Sequence 195493, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
```

```

; APPLICANT: Wu, Wei
; APPLICANT: Boukharov, Andrey A.
; APPLICANT: Barbazuk, Brad
; APPLICANT: Li, Ping
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53221)B
; CURRENT APPLICATION NUMBER: US/10/437,963
; CURRENT FILING DATE: 2003-05-14
; NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 195493
; LENGTH: 415
; TYPE: PRT
; ORGANISM: Oryza sativa
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT4530_91436C.1.pep
US-10-437-963-195493

Query Match
Best Local Similarity 75.0%; Score 39; DB 4; Length 415;
Best Local Similarity 85.7%; Pred. No. 1.1e+02;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 YRDGNPY 7
Db 118 YEDGNPY 124

RESULT 45
US-10-437-963-170490
; Sequence 170490, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; APPLICANT: Wu, Wei
; APPLICANT: Boukharov, Andrey A.
; APPLICANT: Barbazuk, Brad
; APPLICANT: Li, Ping
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53221)B
; CURRENT APPLICATION NUMBER: US/10/437,963
; CURRENT FILING DATE: 2003-05-14
; NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 170490
; LENGTH: 453
; TYPE: PRT
; ORGANISM: Oryza sativa
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT4530_68811C.1.pep
US-10-437-963-170490

Query Match
Best Local Similarity 75.0%; Score 39; DB 4; Length 453;
Best Local Similarity 85.7%; Pred. No. 1.2e+02;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 YRDGNPY 7
Db 100 YEDGNPY 106

RESULT 47
US-10-437-963-180853
; Sequence 180853, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; APPLICANT: Wu, Wei
```

```

; APPLICANT: Boukharov, Andrey A.
; APPLICANT: Barbazuk, Brad
; APPLICANT: Li, Ping
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53221)B
; CURRENT APPLICATION NUMBER: US/10/437,963
; CURRENT FILING DATE: 2003-05-14
; NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 180853
; LENGTH: 582
; TYPE: PRT
; ORGANISM: Oryza sativa
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT4530_78184C.1.pep
US-10-437-963-180853

Query Match
Best Local Similarity 75.0%; Score 39; DB 4; Length 582;
Best Local Similarity 85.7%; Pred. No. 1.5e+02;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 YRDGNPY 7
Db 403 YEDGNPY 409

RESULT 48
US-11-021-949-14
; Sequence 14, Application US/11021949
; Publication No. US20050142541A1
; GENERAL INFORMATION:
; APPLICANT: LU, PETER
; APPLICANT: GARMAN, JONATHAN DAVID
; APPLICANT: BEIMARES, MICHAEL P.
; APPLICANT: DIAZ-SARMIENTO, CHAMORRO SOMOZA
; APPLICANT: SCHWEIZER, JOHANNES
; TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
; FILE REFERENCE: VITA-012
; CURRENT APPLICATION NUMBER: US/11/021,949
; CURRENT FILING DATE: 2004-12-23
; PRIOR APPLICATION NUMBER: 60/532,373
; PRIOR FILING DATE: 2003-12-23
; NUMBER OF SEQ ID NOS: 361
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 14
; LENGTH: 149
; TYPE: PRT
; ORGANISM: human papilloma virus (HPV)
US-11-021-949-14

Query Match
Best Local Similarity 73.1%; Score 38; DB 6; Length 149;
Best Local Similarity 66.7%; Pred. No. 54;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 YRDGNPYAV 9
Db 54 YREGOPYGV 62

RESULT 49
US-10-424-599-186197
; Sequence 186197, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; APPLICANT: Wu, Wei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
```

; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 186197
; LENGTH: 349
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_139148C.1.pep
US-10-424-599-186197

Query Match 73.1%; Score 38; DB 4; Length 349;
Best Local Similarity 87.5%; Pred. No. 1.4e+02;
Matches 7; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 YRDGNPYA 8
|||
Db 130 YRWGNPYA 137

RESULT 50
US-10-425-115-287834
; Sequence 287834, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants
; FILE REFERENCE: 38-21 (53222)B
; CURRENT APPLICATION NUMBER: US/10/425,115
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 287834
; LENGTH: 70
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: MRT4577_25599C.1.pep
US-10-425-115-287834

Query Match 71.2%; Score 37; DB 4; Length 70;
Best Local Similarity 85.7%; Pred. No. 37;
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 3 DGNPYAV 9
|||
Db 26 DGNPYAL 32

Search completed: May 5, 2006, 08:17:36
Job time : 63.8 secs

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OM protein - protein search, using sw model

Run on: May 5, 2006, 08:08:06 ; Search time 8.4 Seconds
(Without alignments)
49.591 Million cell updates/sec

Title: US-08-170-344-35
Perfect score: 52
Sequence: 1 YRDGNPYAV 9

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 235405 seqs, 46284737 residues

Total number of hits satisfying chosen parameters: 235405

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 1000 summaries

Database :

Published Applications_AA_New:*
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257	29	55.8	155	11	US-11-079-463-7325	Sequence 7325, Ap	330	29	55.8	472	11	US-11-188-298-19981	Sequence 19981, A
258	29	55.8	157	9	US-10-793-626-2870	Sequence 2870, Ap	331	29	55.8	473	11	US-11-188-298-1021	Sequence 1021, Ap
259	29	55.8	168	11	US-11-188-298-18065	Sequence 18065, A	332	29	55.8	478	9	US-10-873-528-55	Sequence 55, Appl
260	29	55.8	169	11	US-11-188-298-816	Sequence 816, App	333	29	55.8	486	11	US-11-188-298-17488	Sequence 17488, A
261	29	55.8	185	9	US-10-821-234-1130	Sequence 1130, Ap	334	29	55.8	492	11	US-11-108-163B-15	Sequence 15, Appl
262	29	55.8	197	11	US-11-188-298-479	Sequence 479, App	335	29	55.8	492	11	US-11-188-298-685	Sequence 685, App
263	29	55.8	216	9	US-10-491-468-26	Sequence 26, Appl	336	29	55.8	492	11	US-11-188-298-12883	Sequence 12883, A
264	29	55.8	218	11	US-11-172-740-2190	Sequence 2190, Ap	337	29	55.8	492	11	US-11-188-298-15416	Sequence 15416, A
265	29	55.8	219	11	US-11-172-740-2191	Sequence 2191, Ap	338	29	55.8	492	11	US-11-188-298-19462	Sequence 19462, A
266	29	55.8	220	11	US-11-172-740-2189	Sequence 2189, Ap	339	29	55.8	492	11	US-11-188-298-22022	Sequence 22022, A
267	29	55.8	227	11	US-11-104-111-5	Sequence 5, Appl1	340	29	55.8	493	11	US-11-188-298-7186	Sequence 7186, Ap
268	29	55.8	230	11	US-11-087-099-11417	Sequence 11417, A	341	29	55.8	493	11	US-11-188-298-8448	Sequence 8448, Ap
269	29	55.8	235	11	US-11-045-004-109	Sequence 109, App	342	29	55.8	497	11	US-11-188-298-1686	Sequence 1686, A
270	29	55.8	269	9	US-10-467-657-2110	Sequence 2110, App	343	29	55.8	498	11	US-11-188-298-17011	Sequence 17011, A
271	29	55.8	273	9	US-10-821-234-1203	Sequence 1203, Ap	344	29	55.8	505	11	US-11-072-512-2553	Sequence 2553, Ap
272	29	55.8	276	11	US-11-332-405A-46	Sequence 46, Appl	345	29	55.8	510	11	US-11-079-463-6310	Sequence 6310, Ap
273	29	55.8	277	9	US-10-467-657-2152	Sequence 2152, Ap	346	29	55.8	539	9	US-10-438-345-3	Sequence 3, Appl1
274	29	55.8	282	11	US-11-096-568A-5689	Sequence 5689, Ap	347	29	55.8	552	11	US-11-172-740-1445	Sequence 1445, Ap
275	29	55.8	282	11	US-11-096-568A-21157	Sequence 21157, A	348	29	55.8	583	11	US-11-098-688-11405	Sequence 11405, A
276	29	55.8	283	9	US-10-467-657-2980	Sequence 2980, Ap	349	29	55.8	605	11	US-11-171-620-6	Sequence 6, Appl1
277	29	55.8	284	11	US-11-045-004-746	Sequence 746, App	350	29	55.8	605	11	US-11-171-620-6	Sequence 6, Appl1
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279	29	55.8	288	11	US-11-188-298-12131	Sequence 12131, A	352	29	55.8	664	9	US-10-793-626-346	Sequence 346, App
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281	29	55.8	297	11	US-11-188-298-21274	Sequence 21274, A	354	29	55.8	699	11	US-11-188-298-21824	Sequence 21824, A
282	29	55.8	302	11	US-11-108-163B-18	Sequence 18, Appl	355	29	55.8	737	9	US-10-501-035-254	Sequence 254, App
283	29	55.8	311	11	US-11-096-568A-7767	Sequence 7767, Ap	356	29	55.8	769	11	US-11-188-298-6139	Sequence 6139, Ap
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285	29	55.8	317	9	US-10-506-454-1268	Sequence 1268, Ap	358	29	55.8	858	11	US-11-188-298-8495	Sequence 8495, Ap
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292	29	55.8	339	11	US-11-149-403-2	Sequence 2, Appl1	365	29	55.8	1146	9	US-10-784-004-319	Sequence 319, App
293	29	55.8	339	11	US-11-087-099-2442	Sequence 2442, Ap	366	29	55.8	1287	8	US-10-505-928-341	Sequence 341, App
294	29	55.8	339	11	US-11-087-099-3813	Sequence 3813, Ap	367	29	55.8	1306	11	US-11-052-554A-119	Sequence 119, Appl
295	29	55.8	346	9	US-10-506-454-512	Sequence 512, App	368	29	55.8	1349	11	US-11-045-004-28	Sequence 28, App
296	29	55.8	347	11	US-11-087-099-4856	Sequence 4856, Ap	369	29	55.8	1432	9	US-10-510-386-218	Sequence 218, App
297	29	55.8	349	11	US-11-087-099-11345	Sequence 11345, A	370	29	55.8	1490	11	US-11-087-099-5246	Sequence 5246, Ap
298	29	55.8	352	11	US-11-096-568A-23510	Sequence 23510, A	371	29	55.8	1722	8	US-10-505-928-180	Sequence 180, App
299	29	55.8	354	9	US-10-506-454-517	Sequence 517, App	372	29	55.8	2399	11	US-11-052-554A-92	Sequence 92, Appl
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306	29	55.8	375	11	US-11-087-099-4743	Sequence 2473, Ap	379	28	53.8	15	9	US-10-530-061-1703	Sequence 1703, Ap
307	29	55.8	377	11	US-11-087-099-2908	Sequence 2908, Ap	380	28	53.8	15	9	US-10-485-788A-764	Sequence 764, App
308	29	55.8	377	11	US-11-087-099-6771	Sequence 6771, Appl	381	28	53.8	95	9	US-11-053-076-141	Sequence 141, App
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389	28	53.8	144	11	US-11-098-686-10939	Sequence 10939, A	462	28	53.8	346	11	US-11-087-099-6154	Sequence 6154, Ap
390	28	53.8	150	11	US-11-045-004-1109	Sequence 1109, Ap	463	28	53.8	347	9	US-10-453-372-490	Sequence 490, App
391	28	53.8	157	9	US-10-330-773-473	Sequence 473, App	464	28	53.8	347	9	US-10-453-372-500	Sequence 500, App
392	28	53.8	157	9	US-11-103-957-67	Sequence 67, Appl	465	28	53.8	347	9	US-10-537-002-85	Sequence 85, Appl
393	28	53.8	157	11	US-11-018-868-186	Sequence 186, App	466	28	53.8	353	9	US-10-506-454-1228	Sequence 1228, Ap
394	28	53.8	158	9	US-10-530-253-15	Sequence 15, Appl	467	28	53.8	356	11	US-11-188-298-2024	Sequence 2024, Ap
395	28	53.8	172	11	US-11-096-568A-23478	Sequence 23478, A	468	28	53.8	364	9	US-10-498-691A-9	Sequence 9, Appl1
396	28	53.8	182	11	US-11-170-653-49	Sequence 49, Appl	469	28	53.8	371	11	US-11-134-811-6	Sequence 6, Appl1
397	28	53.8	195	11	US-11-096-568A-23477	Sequence 23477, A	470	28	53.8	371	11	US-11-218-281-3	Sequence 76, Appl
398	28	53.8	197	9	US-10-506-454-680	Sequence 680, App	471	28	53.8	373	9	US-10-517-933-76	Sequence 1026, Ap
399	28	53.8	198	11	US-11-079-463-8373	Sequence 8373, Ap	472	28	53.8	376	11	US-11-087-099-1026	Sequence 1026, Ap
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408	28	53.8	226	9	US-10-467-657-8404	Sequence 8404, Ap	481	28	53.8	392	11	US-11-072-2693	Sequence 36329, A
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426	28	53.8	284	11	US-11-087-099-6640	Sequence 6640, App	499	28	53.8	452	11	US-11-087-099-5790	Sequence 5790, App
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429	28	53.8	293	11	US-11-087-099-9147	Sequence 9147, Ap	502	28	53.8	474	9	US-10-491-468-43	Sequence 43, Appl
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436	28	53.8	296	11	US-11-087-099-9250	Sequence 9250, Ap	509	28	53.8	507	11	US-11-096-568A-30072	Sequence 30072, A
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438	28	53.8	297	11	US-11-087-099-5174	Sequence 5174, Ap	511	28	53.8	518	11	US-11-072-512-3059	Sequence 3059, Ap
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442	28	53.8	301	11	US-11-024-959-369	Sequence 369, App	515	28	53.8	523	11	US-11-096-568A-5649	Sequence 5649, Ap
443	28	53.8	303	9	US-10-467-657-1770	Sequence 1770, App	516	28	53.8	523	11	US-11-172-740-2435	Sequence 2435, Ap
444	28	53.8	303	9	US-10-467-657-6810	Sequence 6810, Ap	517	28	53.8	524	11	US-11-096-568A-5648	Sequence 5648, Ap
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446	28	53.8	317	11	US-11-112-784-5	Sequence 5, Appl1	519	28	53.8	524	11	US-11-188-298-18402	Sequence 18402, A
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449	28	53.8	317	11	US-11-112-784-8	Sequence 8, Appl1	522	28	53.8	525	11	US-11-188-298-6022	Sequence 6022, Ap
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453	28	53.8	326	11	US-11-087-099-6080	Sequence 6080, Ap	526	28	53.8	530	11	US-11-188-298-8273	Sequence 8273, Ap
454	28	53.8	326	11	US-11-087-099-8469	Sequence 8469, Ap	527	28	53.8	530	11	US-11-188-298-2673	Sequence 2673, Ap
455	28	53.8	328	11	US-11-188-298-12404	Sequence 12404, A	528	28	53.8	530	11	US-11-188-298-1481	Sequence 1481, Ap
456	28	53.8	329	11	US-11-087-099-4171	Sequence 4171, Ap	529	28	53.8	530	11	US-11-188-298-5652	Sequence 5652, Ap
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459	28	53.8	338	11	US-11-052-554A-228	Sequence 228, App	532	28	53.8	530	11	US-11-188-298-10244	Sequence 10244, A

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537	28	53.8	548	11	US-11-096-568A-27017	Sequence 27017, A
538	28	53.8	550	11	US-11-096-568A-30071	Sequence 30071, A
539	28	53.8	551	11	US-11-169-041-228	Sequence 228, App
540	28	53.8	553	11	US-11-188-298-4649	Sequence 4649, App
541	28	53.8	555	11	US-11-129-861-47	Sequence 47, App
542	28	53.8	563	8	US-10-370-959-136	Sequence 136, App
543	28	53.8	563	11	US-10-878-556A-135	Sequence 135, App
544	28	53.8	563	11	US-11-072-175-241	Sequence 241, App
545	28	53.8	569	9	US-10-512-184-56	Sequence 66, App
546	28	53.8	571	11	US-11-096-568A-30070	Sequence 30070, A
547	28	53.8	576	9	US-10-467-657-8146	Sequence 8146, App
548	28	53.8	578	11	US-11-112-784-78	Sequence 78, App
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566	28	53.8	649	11	US-11-112-784-12	Sequence 12, App
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648	27	51.9	111	8	US-10-505-928-331	Sequence 331, App
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651	27	51.9	112	11	US-11-177-648-19	Sequence 19, App
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654	27	51.9	112	11	US-11-177-648-22	Sequence 22, App
655	27	51.9	112	11	US-11-177-648-23	Sequence 23, App
656	27	51.9	112	11	US-11-177-648-25	Sequence 25, App
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658	27	51.9	118	9	US-11-177-648-78	Sequence 78, App
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662	27	51.9	129	11	US-11-125-402-24	Sequence 24, App
663	27	51.9	129	11	US-11-125-402-33	Sequence 33, App
664	27	51.9	129	11	US-11-079-463-8471	Sequence 8471, App
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666	27	51.9	130	11	US-11-125-402-29	Sequence 29, App
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726	27	51.9	276	11	US-11-188-298-14845	Sequence 14845, A	799	27	51.9	395	11	US-11-096-568A-2271	Sequence 2271, App
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733	27	51.9	294	8	US-10-505-928-33	Sequence 33, Appl	806	27	51.9	404	11	US-11-069-642-115	Sequence 115, App
734	27	51.9	297	11	US-11-188-298-7461	Sequence 7461, App	807	27	51.9	412	9	US-10-979-821-8	Sequence 8, Appl
735	27	51.9	299	11	US-11-188-298-4578	Sequence 4578, App	808	27	51.9	412	11	US-11-114-992-8	Sequence 8, Appl
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742	27	51.9	309	9	US-10-467-657-2906	Sequence 2906, App	815	27	51.9	424	11	US-11-018-868-11	Sequence 11, Appl
743	27	51.9	310	11	US-11-087-099-9007	Sequence 9007, App	816	27	51.9	424	11	US-11-188-298-2841	Sequence 2841, App
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747	27	51.9	313	11	US-11-096-568A-1057	Sequence 1057, App	820	27	51.9	428	11	US-11-188-298-6425	Sequence 6425, App
748	27	51.9	314	11	US-11-010-239-123	Sequence 123, App	821	27	51.9	437	11	US-11-088-634A-4	Sequence 4, Appl
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833	27	51.9	470	11	US-11-188-298-2405	Sequence 2405, App	906	27	51.9	628	9	US-10-453-372-548	Sequence 548, App
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845	27	51.9	481	9	US-10-506-454-1067	Sequence 1067, App	918	27	51.9	686	11	US-11-056-943-52	Sequence 52, App1
846	27	51.9	481	11	US-11-087-009-3447	Sequence 3447, App	919	27	51.9	686	11	US-11-188-298-1367	Sequence 1367, App
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872	27	51.9	530	11	US-11-088-634A-2	Sequence 2, App1	945	27	51.9	715	9	US-10-137-873A-116	Sequence 116, App
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882	27	51.9	597	9	US-10-517-939-348	Sequence 348, App	955	27	51.9	833	9	US-10-915-002-261	Sequence 261, App
883	27	51.9	597	9	US-10-517-939-350	Sequence 350, App	956	27	51.9	833	9	US-10-915-002-261	Sequence 261, App
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971 27 51.9 1021 9 US-10-453-372-1076 Sequence 1076, Ap
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976 27 51.9 1060 11 US-11-090-739-120 Sequence 120, App
977 27 51.9 1063 9 US-10-453-372-1066 Sequence 1066, Ap
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995 27 51.9 1126 11 US-11-110-480-27 Sequence 27, Appl
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997 27 51.9 1126 11 US-11-110-480-47 Sequence 47, Appl
998 27 51.9 1126 11 US-11-110-480-59 Sequence 59, Appl
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ALIGNMENTS

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RESULT 1
US-10-530-061-1656
; Sequence 1656, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.03US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530, 061
; PRIOR FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO: 1656
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-1656

Query Match 100.0%; Score 52; DB 9; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.0013;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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Db 4 YRDGNPYAV 12
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RESULT 2
US-10-530-253-13
., Sequence 13, Application US/10530253

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; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Cassetti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; PRIOR FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO: 13
; LENGTH: 151
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-10-530-253-13

Query Match 100.0%; Score 52; DB 9; Length 151;
Best Local Similarity 100.0%; Pred. No. 0.015;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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RESULT 3
US-11-206-138-3
; Sequence 3, Application US/11206138
; Publication No. US20060039919A1
; GENERAL INFORMATION:
; APPLICANT: HealthBanks Biotech CO. LTD.
; TITLE OF INVENTION: Fusion protein for inhibiting cervical cancer
; FILE REFERENCE: P7819/0613
; CURRENT APPLICATION NUMBER: US/11/206,138
; PRIOR FILING DATE: 2005-08-18
; NUMBER OF SEQ ID NOS: 14
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO: 3
; LENGTH: 158
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-11-206-138-3

Query Match 100.0%; Score 52; DB 11; Length 158;
Best Local Similarity 100.0%; Pred. No. 0.016;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 61 YRDGNPYAV 69
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RESULT 4
US-10-530-253-1
; Sequence 1, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Cassetti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; PRIOR FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02

PRIOR APPLICATION NUMBER: US 60/415,929
PRIOR FILING DATE: 2002-10-03
NUMBER OF SEQ ID NOS: 65
SOFTWARE: PatentIn version 3.1
SEQ ID NO 1
LENGTH: 248
TYPE: PRT
ORGANISM: Human papillomavirus type 16
US-10-530-253-1

Query Match 100.0%; Score 52; DB 9; Length 248;
Best Local Similarity 100.0%; Pred. No. 0.025;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 YRDGNPYAV 9
Db 54 YRDGNPYAV 62

RESULT 5
US-10-530-253-3
Sequence 3, Application US/10530253
Publication No. US20060014926A1
GENERAL INFORMATION:
APPLICANT: Cassecci, Maria C.
APPLICANT: Smith, Larry
APPLICANT: Jeffrey K. Pullen
APPLICANT: Susan P. McElhinney
TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
FILE REFERENCE: 00630/100M137-US2
CURRENT FILING DATE: 2005-04-04
PRIOR APPLICATION NUMBER: US/10/530,253
PRIOR FILING DATE: 2003-10-02
PRIOR APPLICATION NUMBER: PCT/US2003/031726
PRIOR FILING DATE: 2003-10-02
PRIOR APPLICATION NUMBER: US 60/415,929
PRIOR FILING DATE: 2002-10-03
NUMBER OF SEQ ID NOS: 65
SOFTWARE: PatentIn version 3.1
SEQ ID NO 3
LENGTH: 248
TYPE: PRT
ORGANISM: Human papillomavirus type 16
US-10-530-253-3

Query Match 100.0%; Score 52; DB 9; Length 248;
Best Local Similarity 100.0%; Pred. No. 0.025;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 YRDGNPYAV 9
Db 54 YRDGNPYAV 62

RESULT 6
US-10-530-253-5
Sequence 5, Application US/10530253
Publication No. US20060014926A1
GENERAL INFORMATION:
APPLICANT: Cassecci, Maria C.
APPLICANT: Smith, Larry
APPLICANT: Jeffrey K. Pullen
APPLICANT: Susan P. McElhinney
TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
FILE REFERENCE: 00630/100M137-US2
CURRENT FILING DATE: 2005-04-04
PRIOR APPLICATION NUMBER: US/10/530,253
PRIOR FILING DATE: 2003-10-02
PRIOR APPLICATION NUMBER: PCT/US2003/031726
PRIOR FILING DATE: 2003-10-02
PRIOR APPLICATION NUMBER: US 60/415,929
PRIOR FILING DATE: 2002-10-03
NUMBER OF SEQ ID NOS: 65
SOFTWARE: PatentIn version 3.1
SEQ ID NO 5

LENGTH: 248
TYPE: PRT
ORGANISM: Human papillomavirus type 16
US-10-530-253-5

Query Match 100.0%; Score 52; DB 9; Length 248;
Best Local Similarity 100.0%; Pred. No. 0.025;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 YRDGNPYAV 9
Db 54 YRDGNPYAV 62

RESULT 7
US-10-530-253-7
Sequence 7, Application US/10530253
Publication No. US20060014926A1
GENERAL INFORMATION:
APPLICANT: Cassecci, Maria C.
APPLICANT: Smith, Larry
APPLICANT: Jeffrey K. Pullen
APPLICANT: Susan P. McElhinney
TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
FILE REFERENCE: 00630/100M137-US2
CURRENT FILING DATE: 2005-04-04
PRIOR APPLICATION NUMBER: US/10/530,253
PRIOR FILING DATE: 2003-10-02
PRIOR APPLICATION NUMBER: PCT/US2003/031726
PRIOR FILING DATE: 2002-10-03
NUMBER OF SEQ ID NOS: 65
SOFTWARE: PatentIn version 3.1
SEQ ID NO 7
LENGTH: 248
TYPE: PRT
ORGANISM: Human papillomavirus type 16
US-10-530-253-7

Query Match 100.0%; Score 52; DB 9; Length 248;
Best Local Similarity 100.0%; Pred. No. 0.025;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 YRDGNPYAV 9
Db 151 YRDGNPYAV 159

RESULT 8
US-10-530-253-9
Sequence 9, Application US/10530253
Publication No. US20060014926A1
GENERAL INFORMATION:
APPLICANT: Cassecci, Maria C.
APPLICANT: Smith, Larry
APPLICANT: Jeffrey K. Pullen
APPLICANT: Susan P. McElhinney
TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
FILE REFERENCE: 00630/100M137-US2
CURRENT FILING DATE: 2005-04-04
PRIOR APPLICATION NUMBER: US/10/530,253
PRIOR FILING DATE: 2003-10-02
PRIOR APPLICATION NUMBER: PCT/US2003/031726
PRIOR FILING DATE: 2002-10-03
NUMBER OF SEQ ID NOS: 65
SOFTWARE: PatentIn version 3.1
SEQ ID NO 9
LENGTH: 248
TYPE: PRT
ORGANISM: Human papillomavirus type 16
US-10-530-253-9

Query Match 100.0%; Score 52; DB 9; Length 248;
Best Local Similarity 100.0%; Pred. No. 0.025;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 YRDGNPYAV 9
Db 151 YRDGNPYAV 159

RESULT 9
US-10-530-253-11
; Sequence 11, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Cassetti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhiney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; PRIOR FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 11
; LENGTH: 248
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-10-530-253-11

Query Match 100.0%; Score 52; DB 9; Length 248;
Best Local Similarity 100.0%; Pred. No. 0.025;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 YRDGNPYAV 9
Db 151 YRDGNPYAV 159

RESULT 10
US-11-192-923A-2
; Sequence 2, Application US/11192923A
; Publication No. US20060018928A1
; GENERAL INFORMATION:
; APPLICANT: PANG, XIAOMU
; TITLE OF INVENTION: VIRUS-LIKE PARTICLE CONTAINING A DENGUE VIRUS
; FILE REFERENCE: 116620-003
; CURRENT APPLICATION NUMBER: US/11/192,923A
; PRIOR FILING DATE: 2005-07-29
; PRIOR APPLICATION NUMBER: CN 03115272.4
; PRIOR FILING DATE: 2003-01-30
; PRIOR APPLICATION NUMBER: CN 03115273.2
; PRIOR FILING DATE: 2003-01-30
; NUMBER OF SEQ ID NOS: 45
; SOFTWARE: PatentIn Ver. 3.3
; SEQ ID NO 2
; LENGTH: 256
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-11-192-923A-2

Query Match 100.0%; Score 52; DB 11; Length 256;
Best Local Similarity 100.0%; Pred. No. 0.026;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 YRDGNPYAV 9
Db 159 YRDGNPYAV 167

RESULT 11
US-10-530-061-1698

; Sequence 1698, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.033US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; PRIOR FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1698
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-1698

Query Match 92.3%; Score 48; DB 9; Length 15;
Best Local Similarity 88.9%; Pred. No. 0.0072;
Matches 8; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 YRDGNPYAV 9
Db 4 YRDGNPYAV 12

RESULT 12
US-10-530-061-1710
; Sequence 1710, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.033US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; PRIOR FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1710
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-1710

Query Match 92.3%; Score 48; DB 9; Length 15;
Best Local Similarity 88.9%; Pred. No. 0.0072;
Matches 8; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 YRDGNPYAV 9
Db 5 YRDGNPYAV 13

RESULT 13

US-10-530-253-24
; Sequence 24, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Casaretti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; PRIOR FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 24
; LENGTH: 149
; TYPE: PRT
; ORGANISM: Human papillomavirus type 58
US-10-530-253-24

Query Match 92.3%; Score 48; DB 9; Length 149;
Best Local Similarity 88.9%; Pred. No. 0.082;
Matches 8; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 YRDGNPYAV 9
Db 54 YRDGNPYAV 62

RESULT 14
US-10-530-253-21
; Sequence 21, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Casaretti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; PRIOR FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 21
; LENGTH: 151
; TYPE: PRT
; ORGANISM: Human papillomavirus type 51
US-10-530-253-21

Query Match 88.5%; Score 46; DB 9; Length 151;
Best Local Similarity 88.9%; Pred. No. 0.2;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 YRDGNPYAV 9
Db 54 YRDGNPYAV 62

RESULT 15
US-10-530-061-1687
; Sequence 1687, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.033US02/EKS/M-M

APPLICANT: SOUTHWOOD, SCOTT
APPLICANT: SETTE, ALESSANDRO
TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
FILE REFERENCE: 2060.033US02/EKS/M-M
CURRENT APPLICATION NUMBER: US/10/530,061
CURRENT FILING DATE: 2005-04-04
PRIOR APPLICATION NUMBER: PCT/US03/31308
PRIOR FILING DATE: 2003-10-03
PRIOR APPLICATION NUMBER: 60/416,207
PRIOR FILING DATE: 2002-10-03
PRIOR APPLICATION NUMBER: 60/417,269
PRIOR FILING DATE: 2002-10-08
NUMBER OF SEQ ID NOS: 2503
SOFTWARE: PatentIn version 3.3
SEQ ID NO 1687
LENGTH: 15
TYPE: PRT
ORGANISM: Human papillomavirus
US-10-530-061-1687

Query Match 80.8%; Score 42; DB 9; Length 15;
Best Local Similarity 77.8%; Pred. No. 0.094;
Matches 7; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 YRDGNPYAV 9
Db 4 YRDGNPYGV 12

RESULT 16
US-10-530-253-22
; Sequence 22, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Casaretti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; PRIOR FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 22
; LENGTH: 148
; TYPE: PRT
; ORGANISM: Human papillomavirus type 52
US-10-530-253-22

Query Match 80.8%; Score 42; DB 9; Length 148;
Best Local Similarity 77.8%; Pred. No. 1.1;
Matches 7; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 YRDGNPYAV 9
Db 54 YRDGNPYGV 62

RESULT 17
US-10-530-061-1677
; Sequence 1677, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.033US02/EKS/M-M

;; CURRENT APPLICATION NUMBER: US/10/530,061
;; CURRENT FILING DATE: 2005-04-04
;; PRIOR APPLICATION NUMBER: PCT/US03/31308
;; PRIOR FILING DATE: 2003-10-03
;; PRIOR APPLICATION NUMBER: 60/416,207
;; PRIOR FILING DATE: 2002-10-03
;; PRIOR APPLICATION NUMBER: 60/417,269
;; PRIOR FILING DATE: 2002-10-08
;; NUMBER OF SEQ ID NOS: 2503
;; SOFTWARE: PatentIn version 3.3
;; SEQ ID NO 1677
;; LENGTH: 15
;; TYPE: PRT
;; ORGANISM: Human papillomavirus
US-10-530-061-1677

Query Match 75.0%; Score 39; DB 9; Length 15;
Best Local Similarity 55.6%; Pred. No. 0.34;
Matches 5; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 1 YRDGNPYAV 9
Db 4 YREGNPGI 12

RESULT 18
US-10-530-253-17
;; Sequence 17, Application US/10510253
;; Publication No. US20060014926A1
;; GENERAL INFORMATION:
;; APPLICANT: Cassetti, Maria C.
;; APPLICANT: Smith, Larry
;; APPLICANT: Jeffrey K. Pullen
;; APPLICANT: Susan P. McElhiney
;; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;; FILE REFERENCE: 00630/100M137-US2
;; CURRENT APPLICATION NUMBER: US/10/530,253
;; PRIOR APPLICATION NUMBER: PCT/US2003/031726
;; PRIOR FILING DATE: 2003-10-02
;; PRIOR APPLICATION NUMBER: 60/415,929
;; PRIOR FILING DATE: 2002-10-03
;; NUMBER OF SEQ ID NOS: 65
;; SOFTWARE: PatentIn version 3.1
;; SEQ ID NO 17
;; LENGTH: 149
;; TYPE: PRT
;; ORGANISM: Human papillomavirus type 33
US-10-530-253-17

Query Match 75.0%; Score 39; DB 9; Length 149;
Best Local Similarity 55.6%; Pred. No. 3.8;
Matches 5; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 1 YRDGNPYAV 9
Db 54 YREGNPGI 62

RESULT 19
US-10-530-253-18
;; Sequence 18, Application US/10510253
;; Publication No. US20060014926A1
;; GENERAL INFORMATION:
;; APPLICANT: Cassetti, Maria C.
;; APPLICANT: Smith, Larry
;; APPLICANT: Jeffrey K. Pullen
;; APPLICANT: Susan P. McElhiney
;; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;; FILE REFERENCE: 00630/100M137-US2
;; CURRENT APPLICATION NUMBER: US/10/530,253
;; CURRENT FILING DATE: 2005-04-04
;; PRIOR APPLICATION NUMBER: PCT/US2003/031726

;; PRIOR FILING DATE: 2003-10-02
;; PRIOR APPLICATION NUMBER: US 60/415,929
;; PRIOR FILING DATE: 2002-10-03
;; NUMBER OF SEQ ID NOS: 65
;; SOFTWARE: PatentIn version 3.1
;; SEQ ID NO 18
;; LENGTH: 149
;; TYPE: PRT
;; ORGANISM: Human papillomavirus type 35
US-10-530-253-18

Query Match 73.1%; Score 38; DB 9; Length 149;
Best Local Similarity 66.7%; Pred. No. 5.9;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 YRDGNPYAV 9
Db 54 YREGOPYGV 62

RESULT 20
US-10-793-626-2428
;; Sequence 2428, Application US/10793626
;; Publication No. US20050255478A1
;; GENERAL INFORMATION:
;; APPLICANT: KIMMERLY, WILLIAM JOHN
;; TITLE OF INVENTION: STAPHYLOCOCCUS EPIDERMIDIS NUCLEIC ACIDS AND PROTEINS
;; FILE REFERENCE: PUI480US
;; CURRENT APPLICATION NUMBER: US/10/793,626
;; CURRENT FILING DATE: 2004-03-04
;; PRIOR APPLICATION NUMBER: 60/164,258
;; PRIOR FILING DATE: 1999-11-09
;; NUMBER OF SEQ ID NOS: 4472
;; SOFTWARE: PatentIn Ver. 2.1
;; SEQ ID NO 2428
;; LENGTH: 253
;; TYPE: PRT
;; ORGANISM: Artificial Sequence
;; FEATURE:
;; OTHER INFORMATION: Description of Artificial Sequence: synthetic
;; OTHER INFORMATION: amino acid sequence
US-10-793-626-2428

Query Match 71.2%; Score 37; DB 9; Length 253;
Best Local Similarity 75.0%; Pred. No. 16;
Matches 6; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 YRDGNPYA 8
Db 85 YHDKPYA 92

RESULT 21
US-10-530-061-848
;; Sequence 848, Application US/10530061
;; Publication No. US20060079453A1
;; GENERAL INFORMATION:
;; APPLICANT: SIDNEY, JOHN
;; APPLICANT: SOUTHWOOD, SCOTT
;; APPLICANT: SETTE, ALESSANDRO
;; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
;; FILE REFERENCE: 2060.03US02/EKS/M-M
;; CURRENT APPLICATION NUMBER: US/10/530,061
;; CURRENT FILING DATE: 2005-04-04
;; PRIOR APPLICATION NUMBER: PCT/US03/31308
;; PRIOR FILING DATE: 2003-10-03
;; PRIOR APPLICATION NUMBER: 60/416,207
;; PRIOR FILING DATE: 2002-10-03
;; PRIOR APPLICATION NUMBER: 60/417,269
;; PRIOR FILING DATE: 2002-10-08
;; NUMBER OF SEQ ID NOS: 2503
;; SOFTWARE: PatentIn version 3.3
;; SEQ ID NO 848

LENGTH: 8
TYPE: PRT
ORGANISM: Human papillomavirus
US-10-530-061-848

Query Match
Best Local Similarity 69.2%; Score 36; DB 9; Length 8;
71.4%; Pred. No. 1.9e+05;
Matches 5; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 1 YRDGNPY 7
|||:
Db 2 YRGNPF 8

RESULT 22
US-10-530-061-793

Sequence 793, Application US/10530061
Publication No. US20060079453A1
GENERAL INFORMATION:
APPLICANT: SIDNEY, JOHN
APPLICANT: SOUTHWOOD, SCOTT
APPLICANT: SETTE, ALESSANDRO
TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
FILE REFERENCE: 2060.033US02/EKS/M-M
CURRENT FILING DATE: 2005-04-04
PRIOR APPLICATION NUMBER: US/10/530,061
PRIOR FILING DATE: 2003-10-03
PRIOR APPLICATION NUMBER: PCT/US03/31308
PRIOR FILING DATE: 2002-10-03
PRIOR APPLICATION NUMBER: 60/416,207
PRIOR FILING DATE: 2002-10-03
PRIOR APPLICATION NUMBER: 60/417,269
PRIOR FILING DATE: 2002-10-08
NUMBER OF SEQ ID NOS: 2503
SOFTWARE: PatentIn version 3.3
SEQ ID NO 793
LENGTH: 10
TYPE: PRT
ORGANISM: Human papillomavirus
US-10-530-061-793

Query Match
Best Local Similarity 69.2%; Score 36; DB 9; Length 10;
71.4%; Pred. No. 0.8;
Matches 5; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 1 YRDGNPY 7
|||:
Db 2 YRGNPF 8

RESULT 23
US-10-530-061-1708

Sequence 1708, Application US/10530061
Publication No. US20060079453A1
GENERAL INFORMATION:
APPLICANT: SIDNEY, JOHN
APPLICANT: SOUTHWOOD, SCOTT
APPLICANT: SETTE, ALESSANDRO
TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
FILE REFERENCE: 2060.033US02/EKS/M-M
CURRENT FILING DATE: 2005-04-04
PRIOR APPLICATION NUMBER: US/10/530,061
PRIOR FILING DATE: 2003-10-03
PRIOR APPLICATION NUMBER: PCT/US03/31308
PRIOR FILING DATE: 2002-10-03
PRIOR APPLICATION NUMBER: 60/416,207
PRIOR FILING DATE: 2002-10-03
PRIOR APPLICATION NUMBER: 60/417,269
PRIOR FILING DATE: 2002-10-08
NUMBER OF SEQ ID NOS: 2503
SOFTWARE: PatentIn version 3.3
SEQ ID NO 1708
LENGTH: 15
TYPE: PRT
ORGANISM: Human papillomavirus

US-10-530-061-1708

Query Match
Best Local Similarity 69.2%; Score 36; DB 9; Length 15;
77.8%; Pred. No. 1.2;
Matches 7; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 YRDGNPYAV 9
|||:
Db 5 YRDGPYAV 13

RESULT 24
US-11-087-099-8288

Sequence 8288, Application US/11087099
Publication No. US20060041961A1
GENERAL INFORMATION:
APPLICANT: Abad, Mark S. et al.
TITLE OF INVENTION: Genes and Uses for Plant Improvement
FILE REFERENCE: 38-21(53450)B EP
CURRENT APPLICATION NUMBER: US/11/087,099
CURRENT FILING DATE: 2005-03-22
NUMBER OF SEQ ID NOS: 12464
SEQ ID NO 8288
LENGTH: 154
TYPE: PRT
ORGANISM: Glycine max
FEATURE:
NAME/KEY: unsure
LOCATION: (1)..(154)
OTHER INFORMATION: unsure at all Xaa locations
US-11-087-099-8288

Query Match
Best Local Similarity 69.2%; Score 36; DB 11; Length 154;
66.7%; Pred. No. 14;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 YRDGNPYAV 9
|||:
Db 118 FGDSPPYAV 126

RESULT 25
US-10-530-253-23

Sequence 23, Application US/10530253
Publication No. US20060014926A1
GENERAL INFORMATION:
APPLICANT: Casaretti, Maria C.
APPLICANT: Smith, Larry
APPLICANT: Jeffrey K. Pullen
APPLICANT: Susan P. McElhinney
TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
FILE REFERENCE: 00630/100M137-US2
CURRENT APPLICATION NUMBER: US/10/530,253
CURRENT FILING DATE: 2005-04-04
PRIOR APPLICATION NUMBER: PCT/US2003/031726
PRIOR FILING DATE: 2003-10-02
PRIOR APPLICATION NUMBER: US 60/445,929
PRIOR FILING DATE: 2002-10-03
NUMBER OF SEQ ID NOS: 65
SOFTWARE: PatentIn version 3.1
SEQ ID NO 23
LENGTH: 155
TYPE: PRT
ORGANISM: Human papillomavirus type 56
US-10-530-253-23

Query Match
Best Local Similarity 69.2%; Score 36; DB 9; Length 155;
77.8%; Pred. No. 14;
Matches 7; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 YRDGNPYAV 9
|||:
Db 57 YRDGPYAV 65

RESULT 26

US-11-098-686-11153
; Sequence 11153, Application US/11098686
; Publication No. US20060024696A1
; GENERAL INFORMATION:
; APPLICANT: Kapur, Vivek and Gebhart, Connie J.
; TITLE OF INVENTION: NUCLEIC ACID AND POLYPEPTIDE SEQUENCES
; FILE REFERENCE: 09531-128001
; CURRENT APPLICATION NUMBER: US/11/098,686
; PRIOR FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31318
; PRIOR FILING DATE: 2003-10-01
; PRIOR APPLICATION NUMBER: US 60/416,395
; NUMBER OF SEQ ID NOS: 11433
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1153
; LENGTH: 363
; TYPE: PRT
; ORGANISM: Lawsonia intracellularis
US-11-098-686-11153

Query Match 69.2%; Score 36; DB 11; Length 363;
Best Local Similarity 75.0%; Pred. No. 35;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 YRDGNPYA 8
|:|||||
Db 253 YDGNPQA 260

RESULT 27

US-11-120-543-18
; Sequence 18, Application US/11120543
; Publication No. US20050266020A1
; GENERAL INFORMATION:
; APPLICANT: Boehm, Gerald
; APPLICANT: Rudolph, Rainer
; APPLICANT: Schmidt, Ulrich
; APPLICANT: Esser, Dirk
; APPLICANT: ACGT Progenomics AG
; TITLE OF INVENTION: Modular Transport Systems for Molecular Substances and
; FILE REFERENCE: 080380-000000US
; CURRENT APPLICATION NUMBER: US/11/120,543
; PRIOR FILING DATE: 2005-05-02
; PRIOR APPLICATION NUMBER: US/10/129,428
; PRIOR FILING DATE: 2002-11-13
; PRIOR APPLICATION NUMBER: DE 199 52 957.4
; PRIOR FILING DATE: 1999-11-03
; PRIOR APPLICATION NUMBER: WO PCT/EP00/10876
; PRIOR FILING DATE: 2000-11-03
; NUMBER OF SEQ ID NOS: 49
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 18
; LENGTH: 527
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: variant of
; OTHER INFORMATION: listeriolysin O (LLO)
; NAME/KEY: PEPTIDE
; LOCATION: (1)-(121)
; OTHER INFORMATION: proline-rich sequence insert
US-11-120-543-18

Query Match 69.2%; Score 36; DB 11; Length 527;
Best Local Similarity 66.7%; Pred. No. 52;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 YRDGNPYAV 9
|:|||||
Db 88 YDGNPYIV 96

RESULT 28

US-11-045-004-384
; Sequence 384, Application US/11045004
; Publication No. US20060078901A1
; GENERAL INFORMATION:
; APPLICANT: BUCHRIEGER, CARMEN
; APPLICANT: FRANGEUL, LIONEL
; APPLICANT: COUVE, ELISABETH
; APPLICANT: RUSNIOK, CHRISTOPHE
; APPLICANT: FSIH, HAFIDA
; APPLICANT: DEHOUX, PIERRE
; APPLICANT: DUSSENET, OLIVIER
; APPLICANT: CHETOUNI, FARID
; APPLICANT: MEDJARI, HAFED
; APPLICANT: GLASER, PHILIPPE
; APPLICANT: KUNST, FRANCK
; APPLICANT: COSSART, PASCALE
; APPLICANT: DANIELS, JUSTIN
; APPLICANT: GOEBEL, WERNER
; APPLICANT: KREFT, JURGEN
; APPLICANT: KUHN, MICHAEL
; APPLICANT: NG, EVA
; APPLICANT: VAZQUEZ-BOLAND, ANTONIO
; APPLICANT: DOMINGUEZ-BERNAL, GUSTAVO
; APPLICANT: GARRIDO-GARCIA, PATRICIA
; APPLICANT: TIERREZ-MARTINEZ, ALBERTO
; APPLICANT: AMEND, ALEXANDRA
; APPLICANT: CHAKRABORTY, TRINAD
; APPLICANT: DOMANN, EUGEN
; APPLICANT: HAIN, THORSTEN
; APPLICANT: BERCHE, PATRICK
; APPLICANT: CHARBIT, ALAIN
; APPLICANT: DURANT, LIONEL
; APPLICANT: PEREZ-DIAZ, JOSE-CLAUDIO
; APPLICANT: BAQUERO, FERNANDO
; APPLICANT: GARCIA DEL PORTILLO, FRANCISCO
; APPLICANT: GOMEZ-LOPEZ, NURIA
; APPLICANT: MADUENIO, ENCARNIA
; APPLICANT: PABLOS, BETRIZ DE
; APPLICANT: MEHLAND, JURGEN
; APPLICANT: KARST, UWE
; APPLICANT: HAUF, JORG
; APPLICANT: ENTIAN, KARL-DIETER
; APPLICANT: ROSE, MATTHIAS
; APPLICANT: VOSS, HAMUT
; TITLE OF INVENTION: LISTERIA MONOCYTOGENES GENOME, POLYPEPTIDES AND USES
; FILE REFERENCE: 05394.0018-02
; CURRENT APPLICATION NUMBER: US/11/045,004
; PRIOR FILING DATE: 2005-01-28
; PRIOR APPLICATION NUMBER: 10/637,657
; PRIOR FILING DATE: 2003-08-11
; PRIOR APPLICATION NUMBER: 10/257,023
; PRIOR FILING DATE: 2002-10-08
; PRIOR APPLICATION NUMBER: PCT/FR01/01118
; PRIOR FILING DATE: 2001-04-11
; PRIOR APPLICATION NUMBER: FR 00/04,629
; NUMBER OF SEQ ID NOS: 2854
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 384
; LENGTH: 529
; TYPE: PRT
; ORGANISM: Listeria monocytogenes
US-11-045-004-384

Query Match 69.2%; Score 36; DB 11; Length 529;
Best Local Similarity 66.7%; Pred. No. 53;

Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 YRDGNPYAV 9
|:|:|:|:|
Db 92 YKDGNEYIV 100

RESULT 29
US-10-530-253-26
; Sequence 26, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Cassecci, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; PRIOR FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 26
; LENGTH: 158
; TYPE: PRT
; ORGANISM: Human papillomavirus type 68
US-10-530-253-26

Query Match 67.3%; Score 35; DB 9; Length 158;
Best Local Similarity 75.0%; Pred. No. 23;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 YRDGNPYA 8
|:|:|:|:|
Db 56 YRDGVVFA 63

RESULT 30
US-10-467-657-1768
; Sequence 1768, Application US/10467657
; Publication No. US20050260581A1
; GENERAL INFORMATION:
; APPLICANT: CHIRON SPA
; APPLICANT: FONTANA Maria Rita
; APPLICANT: PIZZA Mariagrazia
; APPLICANT: MASIGNANI Vega
; APPLICANT: MONACI Elisabetta
; TITLE OF INVENTION: GONOCOCCAL PROTEINS AND NUCLEIC ACIDS
; FILE REFERENCE:
; CURRENT APPLICATION NUMBER: US/10/467,657
; CURRENT FILING DATE: 2003-08-11
; PRIOR APPLICATION NUMBER: GB-0103424.8
; PRIOR FILING DATE: 2001-02-12
; NUMBER OF SEQ ID NOS: 9218
; SOFTWARE: SeqMan9, version 1.04
; SEQ ID NO 1768
; LENGTH: 288
; TYPE: PRT
; ORGANISM: Neisseria gonorrhoeae
US-10-467-657-1768

Query Match 67.3%; Score 35; DB 9; Length 288;
Best Local Similarity 66.7%; Pred. No. 43;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 YRDGNPYAV 9
|:|:|:|:|
Db 280 PTTGNPYAV 288

RESULT 31
US-10-506-454-192
; Sequence 192, Application US/10506454
; Publication No. US20060068386A1
; GENERAL INFORMATION:
; APPLICANT: Slesarev, Alexi I
; APPLICANT: Mezhevaya, Katja V
; APPLICANT: Polushin, Nikolai N
; APPLICANT: Sncherbina, Olga V
; APPLICANT: Shakhova, Vera V
; APPLICANT: Malykh, Andrei G
; APPLICANT: Kozavkin, Sergei A
; TITLE OF INVENTION: The Complete Genome and Protein Sequences of the Hyperthermophile
; TITLE OF INVENTION: Mechanopyrus kandleri AV19 and Monophyly of Archaeal Methanogens
; TITLE OF INVENTION: and Methods of Use Thereof
; FILE REFERENCE: FID001
; CURRENT APPLICATION NUMBER: US/10/506,454
; CURRENT FILING DATE: 2004-08-31
; PRIOR APPLICATION NUMBER: PCT/US03/06664
; PRIOR FILING DATE: 2003-03-04
; PRIOR APPLICATION NUMBER: 60/361,742
; PRIOR FILING DATE: 2002-03-04
; NUMBER OF SEQ ID NOS: 1722
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 192
; LENGTH: 818
; TYPE: PRT
; ORGANISM: Mechanopyrus kandleri
US-10-506-454-192

Query Match 67.3%; Score 35; DB 9; Length 818;
Best Local Similarity 75.0%; Pred. No. 1,3e+02;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 YRDGNPYA 8
|:|:|:|:|
Db 594 YRDGPYA 601

RESULT 32
US-11-079-463-5764
; Sequence 5764, Application US/11079463
; Publication No. US20060073161A1
; GENERAL INFORMATION:
; APPLICANT: Gary L. Berton
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO BACTEROIDES FRA
; TITLE OF INVENTION: FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: PATH00-03DIV2
; CURRENT APPLICATION NUMBER: US/11/079,463
; CURRENT FILING DATE: 2005-03-14
; PRIOR APPLICATION NUMBER: US 60/128,705
; PRIOR FILING DATE: 1999-04-09
; PRIOR APPLICATION NUMBER: US 09/540,209
; PRIOR FILING DATE: 2000-04-04
; NUMBER OF SEQ ID NOS: 10444
; SEQ ID NO 5764
; LENGTH: 965
; TYPE: PRT
; ORGANISM: B.fragilis
US-11-079-463-5764

Query Match 67.3%; Score 35; DB 11; Length 965;
Best Local Similarity 55.6%; Pred. No. 1.5e+02;
Matches 5; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 1 YRDGNPYAV 9
|:|:|:|:|
Db 519 YKDGMPYMI 527

RESULT 33
US-10-530-253-19

```
; Sequence 19, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Cassecci, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 19
; LENGTH: 158
; TYPE: PRT
; ORGANISM: Human papillomavirus type 39
US-10-530-253-19
```

```
Query Match 65.4%; Score 34; DB 9; Length 158;
Best Local Similarity 75.0%; Pred. No. 35;
Matches 6; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
```

```
OY 1 YRDGNPYA 8
Db 56 YRDGEPLA 63
```

```
RESULT 34
US-10-506-454-663
; Sequence 663, Application US/10506454
; Publication No. US20060068386A1
; GENERAL INFORMATION:
; APPLICANT: Slesarev, Alexi I
; APPLICANT: Mezheva, Katja V
; APPLICANT: Polushin, Nikolai N
; APPLICANT: Shcherbina, Olga V
; APPLICANT: Shakhova, Vera V
; APPLICANT: Malykh, Andrei G
; APPLICANT: Kozavkin, Sergei A
; TITLE OF INVENTION: The Complete Genome and Protein Sequences of the Hyperthermophilic
; TITLE OF INVENTION: Methanopyrus Kandleri AV19 and Monophyly of Archaeal Methanogens
; FILE REFERENCE: FID001
; CURRENT APPLICATION NUMBER: US/10/506,454
; CURRENT FILING DATE: 2004-08-31
; PRIOR APPLICATION NUMBER: PCT/US03/06664
; PRIOR FILING DATE: 2003-03-04
; PRIOR APPLICATION NUMBER: 60/361,742
; PRIOR FILING DATE: 2002-03-04
; NUMBER OF SEQ ID NOS: 1722
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 663
; LENGTH: 491
; TYPE: PRT
; ORGANISM: Methanopyrus kandleri
US-10-506-454-663
```

```
Query Match 65.4%; Score 34; DB 9; Length 491;
Best Local Similarity 66.7%; Pred. No. 11e+02;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;
```

```
OY 1 YRDGNPYA 9
Db 400 FSDENPYA 408
```

```
RESULT 35
US-11-079-463-7530
```

```
; Sequence 7530, Application US/11079463
; Publication No. US20060073161A1
; GENERAL INFORMATION:
; APPLICANT: Gary L. Breton
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO BACTERIOIDES FRAC
; FILE REFERENCE: PATH00-03DIV2
; CURRENT APPLICATION NUMBER: US/11/079,463
; CURRENT FILING DATE: 2005-03-14
; PRIOR APPLICATION NUMBER: US 60/128,705
; PRIOR FILING DATE: 1999-04-09
; PRIOR APPLICATION NUMBER: US 09/540,209
; PRIOR FILING DATE: 2000-04-04
; NUMBER OF SEQ ID NOS: 10444
; SEQ ID NO 7530
; LENGTH: 707
; TYPE: PRT
; ORGANISM: B. fragilis
US-11-079-463-7530
```

```
Query Match 65.4%; Score 34; DB 11; Length 707;
Best Local Similarity 71.4%; Pred. No. 1.7e+02;
Matches 5; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
```

```
OY 1 YRDGNPY 7
Db 408 YMEGNPY 414
```

```
RESULT 36
US-11-188-298-4989
; Sequence 4989, Application US/11188298
; Publication No. US20060075522A1
; GENERAL INFORMATION:
; APPLICANT: Aaad, Mark S. et al.
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
; FILE REFERENCE: 38-21(53452)B
; CURRENT APPLICATION NUMBER: US/11/188,298
; CURRENT FILING DATE: 2005-07-22
; PRIOR APPLICATION NUMBER: 60/592,978
; PRIOR FILING DATE: 2004-07-31
; NUMBER OF SEQ ID NOS: 22569
; SEQ ID NO 4989
; LENGTH: 816
; TYPE: PRT
; ORGANISM: Microbulbifer degradans 2-40
US-11-188-298-4989
```

```
Query Match 65.4%; Score 34; DB 11; Length 816;
Best Local Similarity 62.5%; Pred. No. 2e+02;
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;
```

```
OY 2 RDGNPYA 9
Db 174 RDGNPWEI 181
```

```
RESULT 37
US-10-517-939-290
; Sequence 290, Application US/10517939
; Publication No. US20060003433A1
; GENERAL INFORMATION:
; APPLICANT: Steer, Brian
; APPLICANT: Callen, Walter
; APPLICANT: Healey, Shaun
; APPLICANT: Hazlewood, Geoff
; APPLICANT: Wu, Di
; APPLICANT: Blum, David
; APPLICANT: Esteghlalian, Alireza
; TITLE OF INVENTION: XYLANASES, NUCLEIC ACIDS ENCODING THEM
; FILE REFERENCE: 564462007901
; CURRENT APPLICATION NUMBER: US/10/517,939
```

CURRENT FILING DATE: 2004-12-13
PRIOR APPLICATION NUMBER: PCT/US03/19153
PRIOR FILING DATE: 2003-06-16
PRIOR APPLICATION NUMBER: 60/389,299
PRIOR FILING DATE: 2002-06-14
NUMBER OF SEQ ID NOS: 380
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 290
LENGTH: 931
TYPE: PRT
ORGANISM: Unknown
FEATURE:
OTHER INFORMATION: Obtained from an environmental sample.
NAME/KEY: SIGNAL
LOCATION: (1)...(122)
US-10-517-939-290

Query Match 65.4%; Score 34; DB 9; Length 931;
Best Local Similarity 77.8%; Pred. No. 2.3e+02;
Matches 7; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

OY 1 YRDGNPYAV 9
Db 294 YRDGLPKAV 302

RESULT 38
US-11-087-099-10309
Sequence 10309, Application US/11087099
Publication No. US20060041961A1
GENERAL INFORMATION:
APPLICANT: Abad, Mark S. et al.
TITLE OF INVENTION: Genes and Uses for Plant Improvement
FILE REFERENCE: 38-21(53450)B EP
CURRENT APPLICATION NUMBER: US/11/087,099
CURRENT FILING DATE: 2005-03-22
NUMBER OF SEQ ID NOS: 12464
SEQ ID NO 10309
LENGTH: 1796
TYPE: PRT
ORGANISM: Neurospora crassa
US-11-087-099-10309

Query Match 65.4%; Score 34; DB 11; Length 1796;
Best Local Similarity 55.6%; Pred. No. 4.5e+02;
Matches 5; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

OY 1 YRDGNPYAV 9
Db 1198 FRDNNPHAL 1206

RESULT 39
US-11-188-298-9498
Sequence 9498, Application US/11188298
Publication No. US20060075522A1
GENERAL INFORMATION:
APPLICANT: Abad, Mark S. et al.
TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
FILE REFERENCE: 38-21(53452)B
CURRENT APPLICATION NUMBER: US/11/188,298
CURRENT FILING DATE: 2005-07-22
PRIOR APPLICATION NUMBER: 60/592,978
PRIOR FILING DATE: 2004-07-31
NUMBER OF SEQ ID NOS: 22569
SEQ ID NO 9498
LENGTH: 1796
TYPE: PRT
ORGANISM: Neurospora crassa
US-11-188-298-9498

Query Match 65.4%; Score 34; DB 11; Length 1796;

Best Local Similarity 55.6%; Pred. No. 4.5e+02;
Matches 5; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

OY 1 YRDGNPYAV 9
Db 1198 FRDNNPHAL 1206

RESULT 40
US-11-021-441-102
Sequence 102, Application US/11021441
Publication No. US20050249748A1
GENERAL INFORMATION:
APPLICANT: DUBENSKY, Thomas W., Jr.
APPLICANT: FORNOY, Daniel A.
APPLICANT: LOCKETT, William S., Jr.
APPLICANT: COOK, David N.
TITLE OF INVENTION: RECOMBINANT NUCLEIC ACID MOLECULES,
TITLE OF INVENTION: EXPRESSION CASSETTES, AND BACTERIA, AND METHODS OF USE
TITLE OF INVENTION: THEREOF
FILE REFERENCE: 282172003900
CURRENT APPLICATION NUMBER: US/11/021,441
CURRENT FILING DATE: 2004-12-23
PRIOR APPLICATION NUMBER: US 60/616,750
PRIOR FILING DATE: 2004-10-06
PRIOR APPLICATION NUMBER: US 60/615,287
PRIOR FILING DATE: 2004-10-01
PRIOR APPLICATION NUMBER: US 60/599,377
PRIOR FILING DATE: 2004-08-05
PRIOR APPLICATION NUMBER: PCT/US2004/23881
PRIOR FILING DATE: 2004-07-23
PRIOR APPLICATION NUMBER: US 10/883,599
PRIOR FILING DATE: 2004-06-30
PRIOR APPLICATION NUMBER: US 60/556,744
PRIOR FILING DATE: 2004-03-26
NUMBER OF SEQ ID NOS: 129
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 102
LENGTH: 9
TYPE: PRT
ORGANISM: Listeria monocytogenes
US-11-021-441-102

Query Match 63.5%; Score 33; DB 11; Length 9;
Best Local Similarity 71.4%; Pred. No. 1.9e+05;
Matches 5; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

OY 1 YRDGNPY 7
Db 2 YKDGNEY 8

RESULT 41
US-11-041-893-66
Sequence 66, Application US/11041893
Publication No. US20060002941A1
GENERAL INFORMATION:
APPLICANT: Mahairas, Gregory G.
TITLE OF INVENTION: COMPOSITIONS COMPRISING IMMUNE RESPONSE
TITLE OF INVENTION: ALTERING AGENTS AND METHODS OF USE
FILE REFERENCE: 100123.401
CURRENT APPLICATION NUMBER: US/11/041,893
CURRENT FILING DATE: 2005-01-24
PRIOR APPLICATION NUMBER: US 60/616,855
PRIOR FILING DATE: 2004-10-06
PRIOR APPLICATION NUMBER: US 60/538,713
PRIOR FILING DATE: 2004-01-23
NUMBER OF SEQ ID NOS: 295
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 66
LENGTH: 9
TYPE: PRT
ORGANISM: Listeria monocytogenes

US-11-041-893-66

Query Match 63.5%; Score 33; DB 11; Length 9;
Best Local Similarity 71.4%; Pred. No. 1.9e+05;
Matches 5; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 YRDGNPY 7
|:|||||
DB 2 YKDNEY 8

RESULT 42
US-11-188-298-7958

; Sequence 7958, Application US/11188298
; Publication No. US2006075522A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
; FILE REFERENCE: 38-21(53452)B
; CURRENT APPLICATION NUMBER: US/11/188,298
; CURRENT FILING DATE: 2005-07-22
; PRIOR APPLICATION NUMBER: 60/592,978
; PRIOR FILING DATE: 2004-07-31
; NUMBER OF SEQ ID NOS: 22569
; SEQ ID NO 7958
; LENGTH: 94
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)..(94)
; OTHER INFORMATION: unsure at all Xaa locations
US-11-188-298-7958

Query Match 63.5%; Score 33; DB 11; Length 94;
Best Local Similarity 66.7%; Pred. No. 31;
Matches 6; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 YRDGNPY 9
|:|||||
DB 21 YRSGNPTV 29

RESULT 43
US-10-530-253-25

; Sequence 25, Application US/10530253
; Publication No. US2006014926A1
; GENERAL INFORMATION:
; APPLICANT: Casasetti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M37-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 25
; LENGTH: 160
; TYPE: PRT
; ORGANISM: Human papillomavirus type 59
US-10-530-253-25

Query Match 63.5%; Score 33; DB 9; Length 160;
Best Local Similarity 75.0%; Pred. No. 54;
Matches 6; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 YRDGNPY 8

DB 56 YRDCTPY 63
|:|||||

RESULT 44
US-10-793-626-1808
; Sequence 1808, Application US/10793626
; Publication No. US20050255478A1
; GENERAL INFORMATION:
; APPLICANT: KIMBERLY, WILLIAM JOHN
; TITLE OF INVENTION: STAPHYLOCOCCUS EPIDERMIDIS NUCLEIC ACIDS AND PROTEINS
; FILE REFERENCE: P034800S
; CURRENT APPLICATION NUMBER: US/10/793,626
; CURRENT FILING DATE: 2004-03-04
; PRIOR APPLICATION NUMBER: 60/164,258
; PRIOR FILING DATE: 1999-11-09
; NUMBER OF SEQ ID NOS: 4472
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1808
; LENGTH: 179
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: synthetic
US-10-793-626-1808

Query Match 63.5%; Score 33; DB 9; Length 179;
Best Local Similarity 55.6%; Pred. No. 61;
Matches 5; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY 1 YRDGNPY 9
|:|||||
DB 65 YNEANPYV 73

RESULT 45
US-11-079-463-5437
; Sequence 5437, Application US/11079463
; Publication No. US20060073161A1
; GENERAL INFORMATION:
; APPLICANT: Gary L. Breton
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO BACTERIOIDES FRAC
; FILE REFERENCE: PAT00-03D1V2
; CURRENT APPLICATION NUMBER: US/11/079,463
; CURRENT FILING DATE: 2005-03-14
; PRIOR APPLICATION NUMBER: US 60/128,705
; PRIOR FILING DATE: 1999-04-09
; PRIOR APPLICATION NUMBER: US 09/540,209
; PRIOR FILING DATE: 2000-04-04
; NUMBER OF SEQ ID NOS: 10444
; SEQ ID NO 5437
; LENGTH: 305
; TYPE: PRT
; ORGANISM: B. fragilis
US-11-079-463-5437

Query Match 63.5%; Score 33; DB 11; Length 305;
Best Local Similarity 83.3%; Pred. No. 1.1e+02;
Matches 5; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 2 RDGNPY 7
|:|||||
DB 54 RGNPY 59

RESULT 46
US-10-506-454-1286
; Sequence 1286, Application US/10506454
; Publication No. US20060068386A1
; GENERAL INFORMATION:
; APPLICANT: Slesarev, Alexi I


```

; APPLICANT: Mezhevaya, Katja V
; APPLICANT: Polushin, Nikolai N
; APPLICANT: Shcherbinina, Olga V
; APPLICANT: Shakhova, Vera V
; APPLICANT: Malykh, Andrei G
; APPLICANT: Kozaykin, Sergei A
; TITLE OF INVENTION: The Complete Genome and Protein Sequences of the Hyperthermophilic
; TITLE OF INVENTION: Methanopyrus Kandleri AV19 and Monophyly of Archaeal Methanogens
; FILE REFERENCE: FID001
; CURRENT APPLICATION NUMBER: US/10/506,454
; CURRENT FILING DATE: 2004-08-31
; PRIOR APPLICATION NUMBER: PCT/US03/06664
; PRIOR FILING DATE: 2003-03-04
; PRIOR APPLICATION NUMBER: 60/361,742
; PRIOR FILING DATE: 2002-03-04
; NUMBER OF SEQ ID NOS: 1722
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 1286
; LENGTH: 324
; TYPE: PRT
; ORGANISM: Methanopyrus kandleri
; US-10-506-454-1286

Query Match          63.5%; Score 33; DB 9; Length 324;
Best Local Similarity 55.6%; Pred. No. 1.1e+02;
Matches 5; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 1 YRDGNPYAV 9
Db 188 YRGEPLAI 196

RESULT 47
US-11-188-298-9034
; Sequence 9034, Application US/11188298
; Publication No. US20060075522A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
; FILE REFERENCE: 38-21(53452)B
; CURRENT APPLICATION NUMBER: US/11/188,298
; CURRENT FILING DATE: 2005-07-22
; PRIOR APPLICATION NUMBER: 60/592,978
; PRIOR FILING DATE: 2004-07-31
; NUMBER OF SEQ ID NOS: 22569
; SEQ ID NO 9034
; LENGTH: 424
; TYPE: PRT
; ORGANISM: Glycine max
; US-11-188-298-9034

Query Match          63.5%; Score 33; DB 11; Length 424;
Best Local Similarity 71.4%; Pred. No. 1.5e+02;
Matches 5; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 YRDGNPY 7
Db 194 YRDGPH 200

RESULT 48
US-11-188-298-17176
; Sequence 17176, Application US/11188298
; Publication No. US20060075522A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
; FILE REFERENCE: 38-21(53452)B
; CURRENT APPLICATION NUMBER: US/11/188,298
; CURRENT FILING DATE: 2005-07-22
; PRIOR APPLICATION NUMBER: 60/592,978
; PRIOR FILING DATE: 2004-07-31
```

```

; NUMBER OF SEQ ID NOS: 22569
; SEQ ID NO 17176
; LENGTH: 424
; TYPE: PRT
; ORGANISM: Glycine max
; US-11-188-298-17176

Query Match          63.5%; Score 33; DB 11; Length 424;
Best Local Similarity 71.4%; Pred. No. 1.5e+02;
Matches 5; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 YRDGNPY 7
Db 194 YRDGPH 200

RESULT 49
US-10-821-234-1269
; Sequence 1269, Application US/10821234
; Publication No. US2005025514A1
; GENERAL INFORMATION:
; APPLICANT: Labat, Ivan
; APPLICANT: Stache-Crain, Birgit
; APPLICANT: Andarmani, Susan
; APPLICANT: Tang, Y. Tom
; TITLE OF INVENTION: Methods for Diagnosis and Treatment of Preeclampsia
; FILE REFERENCE: 821A
; CURRENT APPLICATION NUMBER: US/10/821,234
; CURRENT FILING DATE: 2004-04-07
; PRIOR APPLICATION NUMBER: US 60/462,047
; PRIOR FILING DATE: 2003-04-07
; NUMBER OF SEQ ID NOS: 1704
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; Publication No. US20050255568A1
; GENERAL INFORMATION:
; APPLICANT: Bailey, Richard B.
; APPLICANT: Blomquist, Paul
; APPLICANT: Doten, Reed
; APPLICANT: Diggers, Edward M.
; APPLICANT: Madden, Kevin T.
; APPLICANT: O'Leary, Jessica
; APPLICANT: O'Toole, George
; APPLICANT: Trueheart, Joshua
; APPLICANT: Walbridge, Michael J.
; APPLICANT: Yorgey, Peter S.
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR AMINO ACID
; FILE REFERENCE: 14184-030001
; CURRENT APPLICATION NUMBER: US/10/858,730
; CURRENT FILING DATE: 2004-06-01
; PRIOR APPLICATION NUMBER: US 60/475,000
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; PRIOR FILING DATE: 2004-03-10
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OM protein - protein search, using SW model

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Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

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237	35	55.6	78	2	US-09-621-976-5393	Sequence 5393, App
238	35	55.6	85	2	US-09-674-973A-189	Sequence 189, App
239	35	55.6	87	2	US-09-252-991A-21792	Sequence 21792, A
240	35	55.6	94	2	US-09-674-973A-191	Sequence 191, App
241	35	55.6	95	2	US-09-674-973A-192	Sequence 192, App
242	35	55.6	96	2	US-09-950-233A-42	Sequence 42, Appl1
243	35	55.6	103	2	US-09-540-233A-2459	Sequence 2459, Ap
244	35	55.6	107	2	US-09-950-933A-49	Sequence 49, Appl1
245	35	55.6	116	2	US-09-621-976-6157	Sequence 6157, Ap
246	35	55.6	116	2	US-09-902-540-15243	Sequence 15243, A

247	35	55.6	128	2	US-10-104-047-3112	Sequence 3112, Ap	320	34	54.0	155	2	US-09-270-767-34994	Sequence 34994, A
248	35	55.6	176	2	US-09-107-532A-6029	Sequence 6029, Ap	321	34	54.0	155	2	US-09-270-767-50211	Sequence 50211, A
249	35	55.6	188	2	US-08-790-186A-1	Sequence 1, Appl1	322	34	54.0	166	2	US-09-252-991A-31686	Sequence 31686, A
250	35	55.6	191	2	US-09-252-991A-23902	Sequence 23902, A	323	34	54.0	166	2	US-09-252-991A-16643	Sequence 16643, A
251	35	55.6	193	2	US-09-252-991A-32014	Sequence 32014, A	324	34	54.0	173	1	US-08-157-005-8	Sequence 8, Appl1
252	35	55.6	216	2	US-09-252-991A-28120	Sequence 28120, A	325	34	54.0	173	1	US-08-799-464A-24	Sequence 24, Appl1
253	35	55.6	220	2	US-09-205-258-1129	Sequence 1129, Ap	326	34	54.0	173	2	US-08-747-863-8	Sequence 8, Appl1
254	35	55.6	220	2	US-10-004-860-1129	Sequence 1129, Ap	327	34	54.0	173	2	US-09-565-864-8	Sequence 8, Appl1
255	35	55.6	281	2	US-09-118-408-44	Sequence 44, Appl1	328	34	54.0	173	2	US-08-301-435-24	Sequence 24, Appl1
256	35	55.6	281	2	US-09-506-855-44	Sequence 44, Appl1	329	34	54.0	173	2	US-10-226-065-8	Sequence 8, Appl1
257	35	55.6	281	2	US-09-911-1768-44	Sequence 44, Appl1	330	34	54.0	173	4	PCT-US95-09927-24	Sequence 24, Appl1
258	35	55.6	281	2	US-09-619-740-44	Sequence 44, Appl1	331	34	54.0	173	4	PCT-US95-10904-24	Sequence 24, Appl1
259	35	55.6	281	2	US-09-306-652-44	Sequence 44, Appl1	332	34	54.0	213	1	US-08-446-790A-3	Sequence 3, Appl1
260	35	55.6	281	2	US-10-392-706-44	Sequence 44, Appl1	333	34	54.0	213	2	US-08-935-333-3	Sequence 3, Appl1
261	35	55.6	307	2	US-08-949-246-4	Sequence 4, Appl1	334	34	54.0	226	2	US-09-352-991A-32987	Sequence 32887, A
262	35	55.6	307	2	US-09-375-197-4	Sequence 4, Appl1	335	34	54.0	222	2	US-09-252-991A-32998	Sequence 32998, A
263	35	55.6	307	2	US-10-165-800-19	Sequence 19, Appl1	336	34	54.0	224	2	US-09-976-559A-187	Sequence 95, Appl1
264	35	55.6	318	2	US-08-949-246-2	Sequence 2, Appl1	337	34	54.0	224	2	US-09-919-039-95	Sequence 43391, A
265	35	55.6	318	2	US-09-375-197-2	Sequence 2, Appl1	338	34	54.0	227	2	US-09-270-767-43391	Sequence 10, Appl1
266	35	55.6	318	2	US-09-949-016-6994	Sequence 6994, Ap	339	34	54.0	262	2	US-09-809-920-10	Sequence 12277, A
267	35	55.6	318	2	US-10-165-800-20	Sequence 20, Appl1	340	34	54.0	265	2	US-09-489-039A-17277	Sequence 17919, A
268	35	55.6	355	2	US-09-330-611-16	Sequence 16, Appl1	341	34	54.0	289	2	US-09-248-796A-17919	Sequence 38937, A
269	35	55.6	361	2	US-09-949-016-11493	Sequence 11493, A	342	34	54.0	333	2	US-09-270-767-38937	Sequence 54154, A
270	35	55.6	361	2	US-09-949-016-7730	Sequence 7730, Ap	343	34	54.0	333	2	US-09-270-767-54154	Sequence 25478, A
271	35	55.6	364	2	US-09-949-016-7731	Sequence 7731, Ap	344	34	54.0	337	2	US-09-252-991A-25478	Sequence 42538, A
272	35	55.6	364	2	US-09-949-016-7732	Sequence 7732, Ap	345	34	54.0	347	2	US-09-489-039A-9653	Sequence 9653, Ap
273	35	55.6	364	2	US-09-949-016-7733	Sequence 7733, Ap	346	34	54.0	413	2	US-09-543-681A-6093	Sequence 10361, A
274	35	55.6	364	2	US-09-949-016-7733	Sequence 7733, Ap	347	34	54.0	413	2	US-09-902-540-10361	Sequence 30607, A
275	35	55.6	369	2	US-09-252-991A-25394	Sequence 25394, A	348	34	54.0	442	2	US-09-252-991A-30607	Sequence 30607, A
276	35	55.6	397	2	US-09-252-991A-21997	Sequence 21997, A	349	34	54.0	539	2	US-09-252-991A-33061	Sequence 20229, A
277	35	55.6	410	2	US-09-543-681A-6418	Sequence 6418, Ap	350	34	54.0	556	2	US-09-248-796A-20229	Sequence 10009, A
278	35	55.6	422	2	US-08-790-186A-4	Sequence 4, Appl1	351	34	54.0	566	2	US-09-902-540-10009	Sequence 9, Appl1
279	35	55.6	430	2	US-08-997-897-2	Sequence 2, Appl1	352	34	54.0	570	2	US-10-067-422-9	Sequence 21, Ap
280	35	55.6	430	2	US-09-156-8368-2	Sequence 2, Appl1	353	34	54.0	720	2	US-09-991-181-231	Sequence 21, Ap
281	35	55.6	446	2	US-09-949-016-10702	Sequence 10702, A	354	34	54.0	720	2	US-09-990-444-231	Sequence 21, Ap
282	35	55.6	462	2	US-09-138-001C-4126	Sequence 4126, Ap	355	34	54.0	720	2	US-09-990-444-231	Sequence 21, Ap
283	35	55.6	463	2	US-09-489-039A-9034	Sequence 9034, Ap	356	34	54.0	720	2	US-09-990-444-231	Sequence 21, Ap
284	35	55.6	463	2	US-09-252-991A-31829	Sequence 31829, A	357	34	54.0	720	2	US-09-990-444-231	Sequence 21, Ap
285	35	55.6	493	2	US-09-328-352-7177	Sequence 7177, Ap	358	34	54.0	918	2	US-09-892-598-231	Sequence 2, Appl1
286	35	55.6	534	2	US-09-252-991A-30678	Sequence 30678, A	359	34	54.0	919	2	US-09-809-920-2	Sequence 4, Appl1
287	35	55.6	1245	1	US-08-801-263A-3	Sequence 3, Appl1	360	34	54.0	1128	2	US-09-627-650B-11	Sequence 11, Appl1
288	35	55.6	1245	1	US-08-801-263A-6	Sequence 6, Appl1	361	34	54.0	1128	2	US-09-436-063C-11	Sequence 11, Appl1
289	35	55.6	1245	1	US-08-801-263A-10	Sequence 10, Appl1	362	34	54.0	1129	2	US-09-252-991A-28552	Sequence 28552, A
290	35	55.6	1245	2	US-09-102-248-3	Sequence 3, Appl1	363	34	54.0	1497	2	US-09-060-854B-2	Sequence 2, Appl1
291	35	55.6	1245	2	US-09-102-248-6	Sequence 6, Appl1	364	34	54.0	1497	2	US-09-329-904-3	Sequence 3, Appl1
292	35	55.6	1245	2	US-09-102-248-10	Sequence 10, Appl1	365	34	54.0	1497	2	US-09-303-518D-879	Sequence 879, Ap
293	35	55.6	1245	2	US-09-367-764-3	Sequence 3, Appl1	366	34	54.0	1497	2	US-08-460-309-5	Sequence 5, Appl1
294	35	55.6	1245	2	US-09-367-764-6	Sequence 6, Appl1	367	34	54.0	1497	2	US-08-125-077-5	Sequence 5, Appl1
295	35	55.6	1245	2	US-09-367-764-10	Sequence 10, Appl1	368	34	54.0	1497	2	US-09-252-991A-20101	Sequence 20101, A
296	35	55.6	1345	1	US-08-977-767-3	Sequence 3, Appl1	369	34	54.0	1357	2	US-09-910-009A-244	Sequence 244, Ap
297	35	55.6	1345	1	US-08-977-767-3	Sequence 3, Appl1	370	34	54.0	1357	2	US-09-910-009A-244	Sequence 244, Ap
298	35	55.6	1970	2	US-09-538-092-1005	Sequence 1005, Ap	371	34	54.0	15	2	US-09-910-009A-407	Sequence 407, Ap
299	35	55.6	32	2	US-09-210-953-42	Sequence 42, Appl1	372	34	54.0	15	2	US-09-910-009A-407	Sequence 407, Ap
300	35	55.6	77	2	US-09-248-796A-25755	Sequence 25755, A	373	34	54.0	22	6	US-09-910-009A-407	Sequence 407, Ap
301	35	55.6	140	2	US-09-252-991A-33160	Sequence 33160, A	374	34	54.0	42	1	US-08-050-319B-32	Sequence 32, Appl1
302	35	55.6	177	2	US-09-252-991A-17161	Sequence 17161, A	375	34	54.0	42	1	US-08-465-982-32	Sequence 5828, A
303	35	55.6	1034	1	US-10-183-770A-18	Sequence 18, Appl1	376	34	54.0	46	2	US-09-270-767-5848	Sequence 241, Ap
304	35	55.6	20	1	US-08-484-635-82	Sequence 45, Appl1	377	34	54.0	61	1	US-08-466-033-241	Sequence 241, Ap
305	35	55.6	20	1	US-08-484-635-45	Sequence 45, Appl1	378	34	54.0	61	1	US-08-466-033-241	Sequence 241, Ap
306	35	55.6	20	1	US-08-484-631-45	Sequence 45, Appl1	379	34	54.0	61	1	US-08-466-033-241	Sequence 241, Ap
307	35	55.6	20	1	US-08-827-570-45	Sequence 45, Appl1	380	34	54.0	61	1	US-08-466-033-241	Sequence 241, Ap
308	35	55.6	20	2	US-08-828-533-11	Sequence 11, Appl1	381	34	54.0	61	1	US-08-466-033-241	Sequence 241, Ap
309	35	55.6	20	2	US-09-772-156-11	Sequence 11, Appl1	382	34	54.0	61	1	US-08-466-033-241	Sequence 241, Ap
310	35	55.6	20	2	US-09-449-064A-84	Sequence 84, Appl1	383	34	54.0	64	2	US-09-910-009A-243	Sequence 243, Ap
311	35	55.6	38	2	US-09-646-691B-74	Sequence 74, Appl1	384	34	54.0	64	2	US-09-910-009A-243	Sequence 243, Ap
312	35	55.6	38	2	US-08-852-666-11	Sequence 11, Appl1	385	34	54.0	70	1	US-08-444-733-185	Sequence 185, Ap
313	35	55.6	85	2	US-09-270-767-32609	Sequence 32609, A	386	34	54.0	70	1	US-08-444-733-185	Sequence 185, Ap
314	35	55.6	85	2	US-09-270-767-47826	Sequence 47826, A	387	34	54.0	70	1	US-08-461-361-185	Sequence 185, Ap
315	35	55.6	96	2	US-09-252-991A-27861	Sequence 27861, A	388	34	54.0	70	1	US-08-461-361-185	Sequence 185, Ap
316	35	55.6	114	1	US-08-222-791A-5	Sequence 5, Appl1	389	34	54.0	71	2	US-09-902-540-15503	Sequence 15503, A
317	35	55.6	114	1	US-08-470-925-5	Sequence 5, Appl1	390	34	54.0	76	2	US-08-866-545-4	Sequence 4, Appl1
318	35	55.6	114	4	US-08-471-613-5	Sequence 5, Appl1	391	34	54.0	76	2	US-09-627-775-4	Sequence 4, Appl1
319	35	55.6	138	2	PCT-US93-10443-5	Sequence 26643, A	392	34	54.0	77	2	US-08-866-545-2	Sequence 2, Appl1

393	33	52.4	77	2	US-09-627-775-2	Sequence 2, Appl1	466	33	52.4	163	2	US-09-884-987-5	Sequence 5, Appl1
394	33	52.4	77	2	US-09-270-767-37955	Sequence 37955, A	467	33	52.4	164	1	US-08-232-087A-9	Sequence 9, Appl1
395	33	52.4	77	2	US-09-270-767-53172	Sequence 53172, A	468	33	52.4	180	2	US-09-252-991A-28489	Sequence 28489, A
396	33	52.4	80	2	US-09-107-433-4240	Sequence 4240, Ap	469	33	52.4	189	2	US-09-252-991A-22376	Sequence 22376, A
397	33	52.4	86	2	US-09-513-999C-7021	Sequence 7021, Ap	470	33	52.4	189	2	US-09-422-680A-25	Sequence 25, Appl
398	33	52.4	91	2	US-09-621-976-5764	Sequence 5764, Ap	471	33	52.4	191	2	US-09-248-796A-18962	Sequence 18962, A
399	33	52.4	92	1	US-08-395-238-1	Sequence 1, Appl1	472	33	52.4	197	1	US-08-215-089-2	Sequence 2, Appl1
400	33	52.4	92	1	US-08-918-288-79	Sequence 79, Appl	473	33	52.4	197	1	US-09-902-540-15748	Sequence 15748, A
401	33	52.4	92	2	US-09-282-357-79	Sequence 79, Appl	474	33	52.4	197	4	PCT-US95-03384-2	Sequence 2, Appl1
402	33	52.4	92	2	US-10-360-101-213	Sequence 213, Appl	475	33	52.4	200	2	US-09-183-861-84	Sequence 84, Appl
403	33	52.4	101	2	US-08-918-288-33	Sequence 33, Appl	476	33	52.4	200	2	US-09-022-765-84	Sequence 84, Appl
404	33	52.4	101	2	US-09-282-357-33	Sequence 33, Appl	477	33	52.4	200	2	US-09-551-974A-84	Sequence 84, Appl
405	33	52.4	109	2	US-09-059-625-40	Sequence 40, Appl	478	33	52.4	200	2	US-09-565-501A-84	Sequence 84, Appl
406	33	52.4	114	2	US-09-513-999C-4186	Sequence 4186, Ap	479	33	52.4	200	2	US-09-639-206A-84	Sequence 84, Appl
407	33	52.4	115	2	US-09-252-991A-26404	Sequence 26404, A	480	33	52.4	200	2	US-09-874-923-84	Sequence 84, Appl
408	33	52.4	116	1	US-08-599-895-5	Sequence 5, Appl1	481	33	52.4	211	2	US-09-252-991A-26393	Sequence 26393, A
409	33	52.4	116	2	US-09-211-290-5	Sequence 5, Appl1	482	33	52.4	212	2	US-09-252-991A-24512	Sequence 24512, A
410	33	52.4	116	2	US-09-030-613-5	Sequence 5, Appl1	483	33	52.4	222	2	US-08-918-288-30	Sequence 30, Appl
411	33	52.4	116	2	US-09-322-676-5	Sequence 5, Appl1	484	33	52.4	222	2	US-09-282-357-30	Sequence 30, Appl
412	33	52.4	116	2	US-09-466-036A-5	Sequence 5, Appl1	485	33	52.4	223	2	US-08-918-288-27	Sequence 27, Appl
413	33	52.4	116	2	US-09-451-905-5	Sequence 5, Appl1	486	33	52.4	223	2	US-09-282-357-27	Sequence 27, Appl
414	33	52.4	116	2	US-09-949-016-5965	Sequence 5965, Ap	487	33	52.4	224	2	US-08-974-022-50	Sequence 50, Appl
415	33	52.4	120	1	US-08-466-033-181	Sequence 181, App	488	33	52.4	224	2	US-08-795-445A-50	Sequence 50, Appl
416	33	52.4	120	1	US-08-444-733-181	Sequence 181, App	489	33	52.4	224	2	US-08-795-447A-50	Sequence 50, Appl
417	33	52.4	120	1	US-08-464-134-181	Sequence 181, App	490	33	52.4	224	2	US-08-974-186-50	Sequence 50, Appl
418	33	52.4	120	1	US-08-461-361-181	Sequence 181, App	491	33	52.4	224	2	US-08-795-446B-50	Sequence 50, Appl
419	33	52.4	120	1	US-08-485-910-181	Sequence 181, App	492	33	52.4	224	2	US-08-706-945D-137	Sequence 137, App
420	33	52.4	120	2	US-08-974-022-42	Sequence 42, Appl	493	33	52.4	224	2	US-08-577-788C-51	Sequence 51, Appl
421	33	52.4	120	2	US-08-795-445A-42	Sequence 42, Appl	494	33	52.4	226	2	US-09-059-625-71	Sequence 71, Appl
422	33	52.4	120	2	US-08-795-447A-42	Sequence 42, Appl	495	33	52.4	226	2	US-09-059-625-78	Sequence 78, Appl
423	33	52.4	120	2	US-08-974-186-42	Sequence 42, Appl	496	33	52.4	227	2	US-08-974-022-48	Sequence 48, Appl
424	33	52.4	120	2	US-08-795-446B-42	Sequence 42, Appl	497	33	52.4	227	2	US-08-795-447A-48	Sequence 48, Appl
425	33	52.4	120	2	US-08-706-945D-120	Sequence 120, App	498	33	52.4	227	2	US-08-795-447A-48	Sequence 48, Appl
426	33	52.4	120	2	US-08-577-788C-42	Sequence 42, Appl	499	33	52.4	227	2	US-08-974-186-48	Sequence 48, Appl
427	33	52.4	120	4	PCT-US95-06266-155	Sequence 155, App	500	33	52.4	227	2	US-08-795-446B-48	Sequence 48, Appl
428	33	52.4	126	1	US-09-270-767-43094	Sequence 43094, A	501	33	52.4	227	2	US-08-706-945D-134	Sequence 134, App
429	33	52.4	131	1	US-08-466-033-179	Sequence 179, App	502	33	52.4	227	2	US-08-577-788C-18	Sequence 18, Appl
430	33	52.4	131	1	US-08-444-733-179	Sequence 179, App	503	33	52.4	229	2	US-08-918-288-12	Sequence 12, Appl
431	33	52.4	131	1	US-08-464-134-179	Sequence 179, App	504	33	52.4	229	2	US-09-282-357-12	Sequence 12, Appl
432	33	52.4	131	1	US-08-461-361-179	Sequence 179, App	505	33	52.4	233	2	US-09-508-710-16	Sequence 16, Appl
433	33	52.4	131	1	US-08-485-910-179	Sequence 179, App	506	33	52.4	234	2	US-08-918-288-6	Sequence 6, Appl1
434	33	52.4	131	4	PCT-US95-06266-153	Sequence 153, App	507	33	52.4	234	2	US-08-918-288-9	Sequence 9, Appl1
435	33	52.4	139	2	US-09-949-016-10005	Sequence 10005, A	508	33	52.4	234	2	US-08-918-288-21	Sequence 21, Appl
436	33	52.4	141	2	US-09-198-452A-1144	Sequence 1144, Ap	509	33	52.4	234	2	US-08-918-288-24	Sequence 24, Appl
437	33	52.4	147	2	US-10-104-047-3752	Sequence 3752, Ap	510	33	52.4	234	2	US-09-282-357-6	Sequence 6, Appl1
438	33	52.4	148	2	US-10-190-902B-11	Sequence 11, Appl	511	33	52.4	234	2	US-09-282-357-9	Sequence 9, Appl1
439	33	52.4	151	2	US-09-059-625-32	Sequence 32, Appl	512	33	52.4	234	2	US-09-282-357-21	Sequence 21, Appl
440	33	52.4	151	2	US-09-059-625-43	Sequence 43, Appl	513	33	52.4	234	2	US-09-326-394-24	Sequence 24, Appl
441	33	52.4	151	2	US-09-059-625-46	Sequence 46, Appl	514	33	52.4	235	2	US-09-326-394-4	Sequence 4, Appl1
442	33	52.4	155	2	US-09-059-625-62	Sequence 62, Appl	515	33	52.4	235	2	US-09-580-235-2	Sequence 2, Appl1
443	33	52.4	159	1	US-08-219-237B-6	Sequence 6, Appl1	516	33	52.4	235	2	US-09-580-235-4	Sequence 4, Appl1
444	33	52.4	159	2	US-08-477-347-15	Sequence 15, Appl	517	33	52.4	235	2	US-09-580-235-6	Sequence 6, Appl1
445	33	52.4	159	2	US-08-476-862-6	Sequence 6, Appl1	518	33	52.4	235	2	US-09-580-235-8	Sequence 8, Appl1
446	33	52.4	159	2	US-08-468-560C-6	Sequence 6, Appl1	519	33	52.4	235	2	US-09-580-181-2	Sequence 2, Appl1
447	33	52.4	159	2	US-08-828-683A-16	Sequence 16, Appl	520	33	52.4	235	2	US-09-580-181-4	Sequence 4, Appl1
448	33	52.4	159	2	US-09-059-625-64	Sequence 64, Appl	521	33	52.4	235	2	US-09-580-181-6	Sequence 6, Appl1
449	33	52.4	159	2	US-09-800-909-6	Sequence 6, Appl1	522	33	52.4	235	2	US-09-580-181-8	Sequence 8, Appl1
450	33	52.4	159	2	US-09-800-908-15	Sequence 15, Appl	523	33	52.4	235	2	US-09-102-530-2	Sequence 2, Appl1
451	33	52.4	159	2	US-09-884-987-6	Sequence 6, Appl1	524	33	52.4	235	2	US-09-102-530-4	Sequence 4, Appl1
452	33	52.4	162	1	US-09-252-991A-19256	Sequence 19256, A	525	33	52.4	235	2	US-09-102-530-6	Sequence 6, Appl1
453	33	52.4	163	1	US-08-463-262A-10	Sequence 10, Appl	526	33	52.4	236	1	US-08-118-270-74	Sequence 74, Appl
454	33	52.4	163	1	US-08-219-237B-5	Sequence 5, Appl1	527	33	52.4	236	4	PCT-US93-08528-74	Sequence 74, Appl
455	33	52.4	163	1	US-08-477-347-13	Sequence 13, Appl	528	33	52.4	237	2	US-08-918-288-15	Sequence 15, Appl
456	33	52.4	163	2	US-08-476-862-4	Sequence 4, Appl1	529	33	52.4	237	2	US-08-918-288-18	Sequence 18, Appl
457	33	52.4	163	2	US-09-003-574-10	Sequence 10, Appl	530	33	52.4	237	2	US-09-282-357-15	Sequence 15, Appl
458	33	52.4	163	2	US-08-468-560C-5	Sequence 5, Appl1	531	33	52.4	237	2	US-08-804-166-2	Sequence 2, Appl1
459	33	52.4	163	2	US-09-003-570-10	Sequence 10, Appl	532	33	52.4	237	2	US-08-910-991-2	Sequence 2, Appl1
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461	33	52.4	163	2	US-09-800-909-4	Sequence 4, Appl1	534	33	52.4	256	2	US-08-918-288-39	Sequence 39, Appl
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542	33	52.4	281	2	US-09-118-408-2	Sequence 2, Appl	615	33	52.4	461	2	US-08-477-347-3	Sequence 3, Appl
543	33	52.4	281	2	US-09-506-855-2	Sequence 2, Appl	616	33	52.4	461	2	US-09-006-652A-4	Sequence 4, Appl
544	33	52.4	281	2	US-09-911-176B-2	Sequence 2, Appl	617	33	52.4	461	2	US-08-176-862-2	Sequence 2, Appl
545	33	52.4	281	2	US-09-619-740-2	Sequence 2, Appl	618	33	52.4	461	2	US-09-573-986-4	Sequence 4, Appl
546	33	52.4	281	2	US-09-506-852-2	Sequence 2, Appl	619	33	52.4	461	2	US-08-406-824A-2	Sequence 2, Appl
547	33	52.4	281	2	US-09-866-028-78	Sequence 78, Appl	620	33	52.4	461	2	US-09-800-909-2	Sequence 2, Appl
548	33	52.4	281	2	US-09-944-457-78	Sequence 78, Appl	621	33	52.4	461	2	US-09-758-124-2	Sequence 2, Appl
549	33	52.4	281	2	US-10-392-706-2	Sequence 2, Appl	622	33	52.4	461	2	US-09-800-908-3	Sequence 3, Appl
550	33	52.4	281	2	US-09-945-584-78	Sequence 78, Appl	623	33	52.4	461	2	US-09-896-096A-17	Sequence 17, Appl
551	33	52.4	281	2	US-09-945-847-78	Sequence 78, Appl	624	33	52.4	461	2	US-09-949-016-6019	Sequence 6019, Ap
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553	33	52.4	285	2	US-08-804-166-6	Sequence 6, Appl	626	33	52.4	461	2	5395760-2	Patent No. 5395760
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555	33	52.4	285	2	US-09-756-186-6	Sequence 6, Appl	628	33	52.4	477	1	US-07-847-562-2	Sequence 2, Appl
556	33	52.4	285	2	US-09-439-313-532	Sequence 532, App	629	33	52.4	477	1	US-08-240-328-2	Sequence 2, Appl
557	33	52.4	292	2	US-09-636-215-532	Sequence 532, App	630	33	52.4	477	1	US-08-990-849-2	Sequence 2, Appl
558	33	52.4	292	2	US-09-685-166A-532	Sequence 532, App	631	33	52.4	477	1	5245013-3	Patent No. 5245013
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561	33	52.4	292	2	US-09-534-825A-315	Sequence 315, App	634	33	52.4	481	1	PCT-US95-03384-9	Sequence 9, Appl
562	33	52.4	292	2	US-09-657-279-532	Sequence 532, App	635	33	52.4	486	1	US-08-243-010-1	Sequence 1, Appl
563	33	52.4	292	2	US-09-759-143-532	Sequence 532, App	636	33	52.4	486	1	US-09-349-016-7840	Sequence 7840, Ap
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568	33	52.4	293	2	US-09-999-833A-231	Sequence 231, App	641	33	52.4	513	2	US-08-889-419-19	Sequence 19, Appl
569	33	52.4	293	2	US-10-020-445A-231	Sequence 231, App	642	33	52.4	513	2	US-08-469-411-8	Sequence 8, Appl
570	33	52.4	297	1	US-08-580-545B-6	Sequence 6, Appl	643	33	52.4	513	2	US-08-402-542-19	Sequence 19, Appl
571	33	52.4	297	1	US-08-262-653A-6	Sequence 6, Appl	644	33	52.4	513	2	US-09-780-601A-8	Sequence 8, Appl
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575	33	52.4	322	2	US-09-248-796A-161B3	Sequence 16163, A	648	33	52.4	518	2	US-09-579-845-1	Sequence 1, Appl
576	33	52.4	322	2	US-09-252-991A-23289	Sequence 23289, A	649	33	52.4	518	2	US-09-579-845-1	Sequence 3, Appl
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587	33	52.4	417	2	US-09-771-161A-142	Sequence 142, App	660	33	52.4	632	2	US-09-949-016-7867	Sequence 7868, Ap
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591	33	52.4	427	2	US-09-041-886-2	Sequence 2, Appl	664	33	52.4	638	1	US-09-003-574-11	Sequence 11, Appl
592	33	52.4	427	2	US-09-006-353A-5	Sequence 5, Appl	665	33	52.4	638	2	US-08-463-989-11	Sequence 11, Appl
593	33	52.4	427	2	US-09-573-986-5	Sequence 5, Appl	666	33	52.4	638	2	US-09-003-574-11	Sequence 11, Appl
594	33	52.4	427	2	US-09-580-212-4	Sequence 4, Appl	667	33	52.4	638	2	US-09-003-574-11	Sequence 11, Appl
595	33	52.4	427	2	US-09-769-402-4	Sequence 4, Appl	668	33	52.4	638	2	US-09-003-574-11	Sequence 11, Appl
596	33	52.4	427	2	US-09-748-537-13	Sequence 13, Appl	669	33	52.4	647	2	US-09-771-161A-234	Sequence 234, App
597	33	52.4	427	2	US-10-092-138A-4	Sequence 24, Appl	670	33	52.4	647	2	US-09-771-161A-234	Sequence 233, App
598	33	52.4	427	2	US-09-949-016-6233	Sequence 6233, Ap	671	33	52.4	647	2	US-09-949-016-6867	Sequence 8867, Ap
599	33	52.4	427	2	US-08-681-219A-24	Sequence 24, Appl	672	33	52.4	651	2	US-09-949-016-6867	Sequence 8868, Ap
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611	33	52.4	455	2	US-09-095-094-4	Sequence 4, Appl	684	33	52.4	676	2	US-09-003-574-34	Sequence 34, Appl

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689	33	52.4	692	2	US-09-003-570-31	Sequence 31, Appl
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707	32	50.8	59	2	US-09-854-864-20	Sequence 20, Appl
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715	32	50.8	82	2	US-10-178-213-287	Sequence 287, App
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736	32	50.8	158	2	US-09-252-991A-25074	Sequence 25074, A
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742	32	50.8	166	2	US-09-854-864-15	Sequence 15, Appl
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745	32	50.8	176	1	US-09-253-682-18	Sequence 18, Appl
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751	32	50.8	179	2	US-10-115-123-345	Sequence 345, App
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758	32	50.8	193	2	US-09-704-640-78	Sequence 78, Appl
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777	32	50.8	293	2	US-09-782-857A-2	Sequence 2, Appl
778	32	50.8	293	2	US-09-879-918-22	Sequence 22, Appl
779	32	50.8	293	2	US-09-848-295-4	Sequence 4, Appl
780	32	50.8	293	2	US-09-854-864-14	Sequence 14, Appl
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783	32	50.8	297	2	US-09-328-357-7849	Sequence 7849, Ap
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786	32	50.8	321	2	US-09-997-333-36	Sequence 36, Appl
787	32	50.8	321	2	US-09-992-598-36	Sequence 36, Appl
788	32	50.8	329	2	US-09-252-991A-18070	Sequence 18070, A
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792	32	50.8	360	2	US-09-252-991A-23756	Sequence 23756, A
793	32	50.8	365	2	US-09-252-991A-31971	Sequence 31971, A
794	32	50.8	378	2	US-09-489-039A-10489	Sequence 10489, A
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796	32	50.8	411	2	US-09-949-016-6312	Sequence 6312, Ap
797	32	50.8	414	2	US-09-949-016-9993	Sequence 9993, Ap
798	32	50.8	428	2	US-09-902-540-10231	Sequence 10231, A
799	32	50.8	432	2	US-09-248-796A-16450	Sequence 16450, A
800	32	50.8	433	2	US-09-252-991A-23726	Sequence 23726, A
801	32	50.8	433	2	US-09-964-956-77	Sequence 77, Appl
802	32	50.8	434	2	US-09-811-465-5	Sequence 5, Appl
803	32	50.8	434	2	US-10-370-689-5	Sequence 5, Appl
804	32	50.8	436	2	US-09-328-352-4416	Sequence 4416, Ap
805	32	50.8	438	2	US-09-270-767-60209	Sequence 60209, A
806	32	50.8	454	2	US-09-438-188A-916	Sequence 816, App
807	32	50.8	465	2	US-09-198-455A-872	Sequence 872, App
808	32	50.8	470	2	US-09-252-991A-20500	Sequence 20500, A
809	32	50.8	476	2	US-09-811-465-4	Sequence 4, Appl
810	32	50.8	476	2	US-10-370-689-4	Sequence 4, Appl
811	32	50.8	476	2	US-09-949-016-11726	Sequence 11726, A
812	32	50.8	532	2	US-08-911-321-11	Sequence 11, Appl
813	32	50.8	532	2	US-08-504-617-3	Sequence 3, Appl
814	32	50.8	532	4	PCT-US95-13975-2	Sequence 2, Appl
815	32	50.8	570	2	US-09-252-991A-23954	Sequence 23954, A
816	32	50.8	595	2	US-09-248-796A-20439	Sequence 20439, A
817	32	50.8	606	2	US-08-620-07B-3	Sequence 3, Appl
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819	32	50.8	649	2	US-09-270-767-44752	Sequence 44752, A
820	32	50.8	671	2	US-09-121-321-16	Sequence 16, Appl
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822	32	50.8	685	2	US-08-960-046-7	Sequence 7, Appl
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824	32	50.8	685	2	US-09-900-237-31	Sequence 31, Appl
825	32	50.8	710	2	US-09-547-789-2	Sequence 2, Appl
826	32	50.8	755	2	US-09-107-433-4628	Sequence 4628, Ap
827	32	50.8	772	2	US-09-907-794A-339	Sequence 339, App
828	32	50.8	772	2	US-09-905-125A-339	Sequence 339, App
829	32	50.8	772	2	US-09-902-775A-339	Sequence 339, App
830	32	50.8	772	2	US-09-906-700-339	Sequence 339, App

831	32	50.8	772	2	US-09-903-603A-339	Sequence 339, App	904	32	50.8	4303	2	US-09-479-467A-2	Sequence 2, Appl
832	32	50.8	772	2	US-09-904-920A-339	Sequence 339, App	905	32	50.8	4303	2	US-09-655-160-2	Sequence 2, Appl
833	32	50.8	772	2	US-09-909-064-339	Sequence 339, App	906	32	50.8	4339	2	US-09-052-466-6	Sequence 6, Appl
834	32	50.8	772	2	US-09-905-381A-339	Sequence 339, App	907	32	50.8	4339	2	US-08-422-582-6	Sequence 6, Appl
835	32	50.8	772	2	US-09-906-618-339	Sequence 339, App	908	32	50.8	4339	2	US-09-052-262-6	Sequence 6, Appl
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838	32	50.8	772	2	US-09-902-736A-339	Sequence 339, App	911	31.5	50.0	113	2	US-09-489-032A-9289	Sequence 9289, A
839	32	50.8	772	2	US-09-906-722A-339	Sequence 339, App	912	31.5	50.0	138	2	US-09-252-991A-3397	Sequence 20000, A
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843	32	50.8	777	2	US-10-370-659-2	Sequence 2, Appl	916	31.5	50.0	225	2	US-09-270-767-34557	Sequence 34557, A
844	32	50.8	780	2	US-10-370-659-3	Sequence 3973, Ap	917	31.5	50.0	297	2	US-09-548-130-6	Sequence 61, Appl
845	32	50.8	799	2	US-09-030-335-4	Sequence 4, Appl	918	31.5	50.0	297	2	US-09-548-130-6	Sequence 7016, Ap
846	32	50.8	830	2	US-08-872-855-11	Sequence 11, Appl	919	31.5	50.0	297	2	US-09-949-016-7016	Sequence 1181, A
847	32	50.8	832	2	US-08-981-392-6	Sequence 6, Appl	920	31.5	50.0	299	2	US-09-548-130-3	Sequence 3, Appl
848	32	50.8	832	2	US-09-908-322-6	Sequence 6, Appl	921	31.5	50.0	299	2	US-09-548-130-3	Sequence 12, Appl
849	32	50.8	833	1	US-08-264-534-6	Sequence 6, Appl	922	31.5	50.0	299	2	US-09-548-130-3	Sequence 7053, Ap
850	32	50.8	833	1	US-08-083-590A-2	Sequence 6, Appl	923	31.5	50.0	380	2	US-09-198-452A-7	Sequence 7, Appl
851	32	50.8	833	1	US-08-465-500-6	Sequence 6, Appl	924	31.5	50.0	460	2	US-09-198-452A-7	Sequence 1071, Ap
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854	32	50.8	833	1	US-08-532-384-2	Sequence 2, Appl	927	31.5	50.0	6	2	US-09-631-0928-59	Sequence 59, Appl
855	32	50.8	833	2	US-08-893-828-6	Sequence 2, Appl	928	31.5	50.0	6	2	US-09-631-0928-59	Sequence 37, Appl
856	32	50.8	833	2	US-09-310-685-2	Sequence 4, Appl	929	31	49.2	13	1	US-08-609-443B-16	Sequence 16, Appl
857	32	50.8	870	2	US-09-270-767-60178	Sequence 60178, A	930	31	49.2	13	1	US-08-609-443B-16	Sequence 3, Appl
858	32	50.8	886	2	US-09-270-767-44723	Sequence 44723, A	931	31	49.2	13	1	US-08-609-443B-16	Sequence 21, Appl
859	32	50.8	1019	1	US-08-296-014A-4	Sequence 4, Appl	932	31	49.2	13	2	US-09-139-802-3	Sequence 16, Appl
860	32	50.8	1019	1	US-08-536-405-4	Sequence 4, Appl	933	31	49.2	13	2	US-08-915-795-2	Sequence 3, Appl
861	32	50.8	1019	1	US-08-877-620-4	Sequence 4, Appl	934	31	49.2	13	2	US-09-320-424-21	Sequence 21, Appl
862	32	50.8	1019	2	US-09-287-368-4	Sequence 4, Appl	935	31	49.2	13	2	US-08-851-896-16	Sequence 16, Appl
863	32	50.8	1019	2	US-09-626-795-4	Sequence 4, Appl	936	31	49.2	13	2	US-09-825-563-21	Sequence 3, Appl
864	32	50.8	1019	2	US-10-183-992-4	Sequence 4, Appl	937	31	49.2	13	2	US-09-825-563-21	Sequence 21, Appl
865	32	50.8	1019	2	US-10-183-992-8	Sequence 8, Appl	938	31	49.2	13	2	US-09-825-563-21	Sequence 9, Appl
866	32	50.8	1059	2	US-10-160-719A-2	Sequence 2, Appl	939	31	49.2	13	2	US-09-428-082B-1072	Sequence 3, Appl
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868	32	50.8	1078	2	US-10-209-059-26	Sequence 26, Appl	941	31	49.2	13	2	US-08-845-160-6	Sequence 6, Appl
869	32	50.8	1083	1	US-08-296-014A-2	Sequence 2, Appl	942	31	49.2	14	1	US-08-824-996-3	Sequence 3, Appl
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872	32	50.8	1083	2	US-09-287-368-2	Sequence 2, Appl	945	31	49.2	14	2	US-09-910-009A-330	Sequence 330, App
873	32	50.8	1083	2	US-09-626-795-2	Sequence 2, Appl	946	31	49.2	14	2	US-09-910-009A-330	Sequence 390, App
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879	32	50.8	1422	2	US-08-469-260A-86	Sequence 86, Appl	952	31	49.2	15	2	US-09-910-009A-6	Sequence 176, App
880	32	50.8	1422	2	US-08-468-446-86	Sequence 86, Appl	953	31	49.2	18	2	US-10-158-847-85	Sequence 85, Appl
881	32	50.8	1422	2	US-08-467-344A-86	Sequence 86, Appl	954	31	49.2	18	2	US-10-158-847-85	Sequence 85, Appl
882	32	50.8	1422	2	US-08-424-550B-86	Sequence 14, Appl	955	31	49.2	21	4	PCT-US93-05325-9	Sequence 9, Appl
883	32	50.8	1503	2	US-08-976-255-14	Sequence 14, Appl	956	31	49.2	23	2	US-09-101-146-58	Sequence 58, Appl
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888	32	50.8	3084	2	US-09-562-702A-12	Sequence 12, Appl	961	31	49.2	31	2	US-08-473-089-159	Sequence 159, App
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890	32	50.8	3089	2	US-09-562-702A-4	Sequence 4, Appl	963	31	49.2	31	2	US-08-473-089-159	Sequence 159, App
891	32	50.8	3106	2	US-09-562-702A-10	Sequence 10, Appl	964	31	49.2	38	2	US-08-487-072A-159	Sequence 37004, A
892	32	50.8	3110	2	US-09-562-702A-2	Sequence 2, Appl	965	31	49.2	38	2	US-09-270-767-37004	Sequence 52221, A
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898	32	50.8	3111	1	US-08-125-077-4	Sequence 4, Appl	971	31	49.2	49	1	US-08-377-687-24	Sequence 7, Appl
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977 31 49.2 49 2 US-08-971-982-24 Sequence 24, Appl
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 981 31 49.2 57 1 US-07-609-716-56 Sequence 56, Appl
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 983 31 49.2 66 2 US-09-270-767-39002 Sequence 39002, A
 984 31 49.2 66 2 US-09-270-767-54219 Sequence 54219, A
 985 31 49.2 67 2 US-09-543-681A-4177 Sequence 4177, Ap
 986 31 49.2 67 2 US-09-270-767-40784 Sequence 40784, A
 987 31 49.2 67 2 US-09-270-767-56000 Sequence 56000, A
 988 31 49.2 67 2 US-09-949-016-9296 Sequence 9296, Ap
 989 31 49.2 82 2 US-09-489-039A-8159 Sequence 8159, Ap
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 991 31 49.2 84 2 US-09-328-352-4483 Sequence 4483, Ap
 992 31 49.2 86 2 US-09-252-991A-18359 Sequence 18359, A
 993 31 49.2 101 2 US-09-270-767-36678 Sequence 36678, A
 994 31 49.2 101 2 US-09-270-767-51895 Sequence 51895, A
 995 31 49.2 102 1 US-08-804-953-2 Sequence 2, Appl
 996 31 49.2 104 6 5498600-4 Patent No. 5498600
 997 31 49.2 106 2 US-09-621-976-5411 Sequence 5411, Ap
 998 31 49.2 109 1 US-08-094-079-2 Sequence 2, Appl
 999 31 49.2 109 1 US-08-094-079-3 Sequence 3, Appl
 1000 31 49.2 109 1 US-08-094-079-4 Sequence 4, Appl

ALIGNMENTS

RESULT 1
 US-08-934-915-167
 ; Sequence 167, Application US/08934915
 ; Patent No. 5932412
 ; GENERAL INFORMATION:
 ; APPLICANT: DILLNER, JOAKIM
 ; APPLICANT: DILLNER, LENA
 ; APPLICANT: CHENG, HWEI-MING
 ; TITLE OF INVENTION: SYNTHETIC PEPTIDES OF HUMAN
 ; TITLE OF INVENTION: PAPILLOMAVIRUS 1, 5, 6, 8,
 ; TITLE OF INVENTION: 11, 16, 18, 31, 33 AND 56,
 ; TITLE OF INVENTION: USEFUL IN IMMUNOSSAY FOR
 ; NUMBER OF SEQUENCES: 193
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: MASON & ASSOCIATES, P.A.
 ; STREET: 17757 U.S. HWY. 19 NORTH, SUITE 500
 ; CITY: CLEARWATER
 ; STATE: FLORIDA
 ; COUNTRY: U.S.A.
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: Windows 3.0
 ; SOFTWARE: Microsoft Word 6.0
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/934, 915
 ; FILING DATE: 22-SEP-1997
 ; CLASSIFICATION: 435
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: 07/949, 836
 ; FILING DATE:
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: LOUISE A. Foutch
 ; REGISTRATION NUMBER: 37,133
 ; REFERENCE/DOCKET NUMBER: 1946.6
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: 813-538-3800
 ; TELEFAX: 813-538-3820
 ; TELEX:
 ; INFORMATION FOR SEQ ID NO: 167:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 21 amino acids
 ; TYPE: amino acid

TOPOLOGY: linear
 ; MOLECULE TYPE: peptide
 ; US-08-934-915-167

Query Match 100.0%; Score 63; DB 1; Length 21;
 Best Local Similarity 100.0%; Pred. No. 0.0096;
 Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 WTGRCMSCC 9
 DB 2 WTGRCMSCC 10

RESULT 2
 US-09-701-080C-18
 ; Sequence 18, Application US/09701080C
 ; Patent No. 6864054
 ; GENERAL INFORMATION:
 ; APPLICANT: INSTITUTE OF MOLECULAR AND CELL BIOLOGY
 ; TITLE OF INVENTION: POLYPEPTIDES FROM CREB BINDING PROTEIN AND RELATED PROTEIN P300 FC
 ; TITLE OF INVENTION: TRANSCRIPTIONAL REGULATION
 ; FILE REFERENCE: N73477C GCM
 ; CURRENT FILING DATE: 2001-02-27
 ; PRIOR APPLICATION NUMBER: US/09/701,080C
 ; PRIOR FILING DATE: 1998-05-26
 ; PRIOR APPLICATION NUMBER: GB 9900157.0
 ; PRIOR FILING DATE: 1999-01-05
 ; NUMBER OF SEQ ID NOS: 36
 ; SOFTWARE: PatentIn Ver. 2.1
 ; SEQ ID NO 18
 ; LENGTH: 151
 ; TYPE: PRT
 ; ORGANISM: Human papillomavirus
 ; US-09-701-080C-18

Query Match 100.0%; Score 63; DB 2; Length 151;
 Best Local Similarity 100.0%; Pred. No. 0.056;
 Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 WTGRCMSCC 9
 DB 132 WTGRCMSCC 140

RESULT 3
 US-09-980-523A-2
 ; Sequence 2, Application US/09980523A
 ; Patent No. 6783763
 ; GENERAL INFORMATION:
 ; APPLICANT: CHOPPIN, JEANNINE
 ; APPLICANT: BOURGAULT VILADA, ISABELLE
 ; APPLICANT: GUILLET, JEAN-GERARD
 ; APPLICANT: CONNAN, FRANCINE
 ; APPLICANT: FERRIES, ESTELLE
 ; TITLE OF INVENTION: POLYPEPTIC PROTEIN FRAGMENTS OF THE E6 AND E7
 ; TITLE OF INVENTION: PROTEINS OF HPV, THEIR PRODUCTION AND THEIR USE
 ; TITLE OF INVENTION: PARTICULARLY IN VACCINATION
 ; FILE REFERENCE: WO91 AO INS
 ; CURRENT APPLICATION NUMBER: US/09/980,523A
 ; CURRENT FILING DATE: 2002-04-29
 ; PRIOR APPLICATION NUMBER: PCT/FR00/01513
 ; PRIOR FILING DATE: 2000-05-31
 ; PRIOR APPLICATION NUMBER: FR 99/07012
 ; PRIOR FILING DATE: 1999-06-03
 ; NUMBER OF SEQ ID NOS: 24
 ; SOFTWARE: PatentIn Ver. 2.1
 ; SEQ ID NO 2
 ; LENGTH: 158
 ; TYPE: PRT
 ; ORGANISM: Human Papillomavirus
 ; US-09-980-523A-2

Query Match 100.0%; Score 63; DB 2; Length 158;
Best Local Similarity 100.0%; Pred. No. 0.059;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 WTGRMSCC 9
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Db 139 WTGRMSCC 147

RESULT 4

US-08-316-239B-3
Sequence 3, Application US/08316239B
Patent No. 5679509
GENERAL INFORMATION:
APPLICANT: Wheeler, Cosette M.
TITLE OF INVENTION: Methods and a Diagnostic Aid for
TITLE OF INVENTION: Distinguishing a Subset of HPV that is Associated with an
TITLE OF INVENTION: Increased Risk of Developing Cervical Dysplasia and
TITLE OF INVENTION: Cervical Cancer
NUMBER OF SEQUENCES: 4
CORRESPONDENCE ADDRESS:
ADDRESSEE: Jagtiani & Associates
STREET: 6126 Rocky Way Court
CITY: Centreville
STATE: VA
COUNTRY: USA
ZIP: 20120-3400
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/316,239B
FILING DATE: 30-SEP-1994
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Jagtiani, Ajay A.
REGISTRATION NUMBER: 35,205
REFERENCE/DOCKET NUMBER: UNME-0001
TELECOMMUNICATION INFORMATION:
TELEPHONE: (703) 817-9453
TELEFAX: (703) 803-9387
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 162 amino acids
TYPE: amino acid
STRANDEDNESS: not relevant
TOPOLOGY: not relevant
MOLECULE TYPE: protein
HYPOTHETICAL: NO
US-08-316-239B-3
Query Match 100.0%; Score 63; DB 1; Length 162;
Best Local Similarity 100.0%; Pred. No. 0.06;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 WTGRMSCC 9
|||||||
Db 139 WTGRMSCC 147
RESULT 5
US-08-316-239B-4
Sequence 4, Application US/08316239B
Patent No. 5679509
GENERAL INFORMATION:
APPLICANT: Wheeler, Cosette M.
TITLE OF INVENTION: Methods and a Diagnostic Aid for
TITLE OF INVENTION: Distinguishing a Subset of HPV that is Associated with an
TITLE OF INVENTION: Increased Risk of Developing Cervical Dysplasia and

TITLE OF INVENTION: Cervical Cancer
NUMBER OF SEQUENCES: 4
CORRESPONDENCE ADDRESS:
ADDRESSEE: Jagtiani & Associates
STREET: 6126 Rocky Way Court
CITY: Centreville
STATE: VA
COUNTRY: USA
ZIP: 20120-3400
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/316,239B
FILING DATE: 30-SEP-1994
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Jagtiani, Ajay A.
REGISTRATION NUMBER: 35,205
REFERENCE/DOCKET NUMBER: UNME-0001
TELECOMMUNICATION INFORMATION:
TELEPHONE: (703) 817-9453
TELEFAX: (703) 803-9387
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 162 amino acids
TYPE: amino acid
STRANDEDNESS: not relevant
TOPOLOGY: not relevant
MOLECULE TYPE: protein
HYPOTHETICAL: NO
US-08-316-239B-4

Query Match 100.0%; Score 63; DB 1; Length 162;
Best Local Similarity 100.0%; Pred. No. 0.06;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 WTGRMSCC 9
|||||||
Db 139 WTGRMSCC 147

RESULT 6
US-08-860-165-12
Sequence 12, Application US/08860165A
Patent No. 6004557
GENERAL INFORMATION:
APPLICANT: EDWARDS, Stirling John
APPLICANT: COX, John Cooper
APPLICANT: WEBB, Elizabeth Ann
APPLICANT: FRAZER, Ian
TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
FILE REFERENCE: 17227/130
CURRENT APPLICATION NUMBER: US/08/860,165A
CURRENT FILING DATE: 1997-09-22
EARLIER APPLICATION NUMBER: PCT/AU95/00868
EARLIER FILING DATE: 1995-12-20
EARLIER APPLICATION NUMBER: AU PN0157
EARLIER FILING DATE: 1994-12-20
NUMBER OF SEQ ID NOS: 15
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 12
LENGTH: 172
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Gene Fusion
US-08-860-165-12
Query Match 100.0%; Score 63; DB 2; Length 172;
Best Local Similarity 100.0%; Pred. No. 0.063;

Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 WTGRCSGCC 9
|||||
77 WTGRCSGCC 85

RESULT 7
US-09-359-382-12
; Sequence 12, Application US/09359382
; Patent No. 6306397
; GENERAL INFORMATION:
; APPLICANT: EDWARDS, Stirling John
; APPLICANT: COX, John Cooper
; APPLICANT: WEBB, Elizabeth Ann
; APPLICANT: FRAZER, Ian
; TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
; FILE REFERENCE: 017227/0148
; CURRENT APPLICATION NUMBER: US/09/359,382
; CURRENT FILING DATE: 1999-07-23
; EARLIER APPLICATION NUMBER: US 08/860,165
; EARLIER FILING DATE: 1997-09-22
; EARLIER APPLICATION NUMBER: PCT/AU95/00868
; EARLIER FILING DATE: 1995-12-20
; EARLIER APPLICATION NUMBER: AU PN0157/94
; EARLIER FILING DATE: 1994-12-20
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 12
; LENGTH: 172
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-09-359-382-12

Query Match 100.0%; Score 63; DB 2; Length 172;
Best Local Similarity 100.0%; Pred. No. 0.063;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 WTGRCSGCC 9
|||||
77 WTGRCSGCC 85

RESULT 8
US-09-462-993-1
; Sequence 1, Application US/09462993
; Patent No. 6884786
; GENERAL INFORMATION:
; APPLICANT: KIENY, Marie-Paule
; APPLICANT: BALLOUT, Jean-Marc
; APPLICANT: BIZOUARNE, Nadine
; TITLE OF INVENTION: ANTITUMORAL COMPOSITION BASED ON IMMUNOGENIC
; FILE REFERENCE: 017753-122
; CURRENT APPLICATION NUMBER: US/09/462,993
; CURRENT FILING DATE: 2000-04-17
; PRIOR APPLICATION NUMBER: PCT/FR98/01576
; PRIOR FILING DATE: 1998-07-17
; PRIOR APPLICATION NUMBER: FR 97/09152
; PRIOR FILING DATE: 1997-07-18
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: PatentIn Ver. 2.2
; SEQ ID NO 1
; LENGTH: 243
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Derived from
; OTHER INFORMATION: human papillomavirus, strain HPV-16, E6 protein
; OTHER INFORMATION: fused F protein signals, clone E6-TMF.
US-09-462-993-1

Query Match 100.0%; Score 63; DB 2; Length 243;

Best Local Similarity 100.0%; Pred. No. 0.086;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 WTGRCSGCC 9
|||||
Db 162 WTGRCSGCC 170

RESULT 9
US-08-860-165-10
; Sequence 10, Application US/08860165A
; Patent No. 6004557
; GENERAL INFORMATION:
; APPLICANT: EDWARDS, Stirling John
; APPLICANT: COX, John Cooper
; APPLICANT: WEBB, Elizabeth Ann
; APPLICANT: FRAZER, Ian
; TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
; FILE REFERENCE: 17227/130
; CURRENT APPLICATION NUMBER: US/08/860,165A
; CURRENT FILING DATE: 1997-09-22
; EARLIER APPLICATION NUMBER: PCT/AU95/00868
; EARLIER FILING DATE: 1995-12-20
; EARLIER APPLICATION NUMBER: AU PN0157
; EARLIER FILING DATE: 1994-12-20
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 10
; LENGTH: 266
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Gene Fusion
US-08-860-165-10

Query Match 100.0%; Score 63; DB 2; Length 266;
Best Local Similarity 100.0%; Pred. No. 0.093;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 WTGRCSGCC 9
|||||
Db 139 WTGRCSGCC 147

RESULT 10
US-09-359-382-10
; Sequence 10, Application US/09359382
; Patent No. 6306397
; GENERAL INFORMATION:
; APPLICANT: EDWARDS, Stirling John
; APPLICANT: COX, John Cooper
; APPLICANT: WEBB, Elizabeth Ann
; APPLICANT: FRAZER, Ian
; TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
; FILE REFERENCE: 017227/0148
; CURRENT APPLICATION NUMBER: US/09/359,382
; CURRENT FILING DATE: 1999-07-23
; EARLIER APPLICATION NUMBER: US 08/860,165
; EARLIER FILING DATE: 1997-09-22
; EARLIER APPLICATION NUMBER: PCT/AU95/00868
; EARLIER FILING DATE: 1995-12-20
; EARLIER APPLICATION NUMBER: AU PN0157/94
; EARLIER FILING DATE: 1994-12-20
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 10
; LENGTH: 266
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-09-359-382-10

Query Match 100.0%; Score 63; DB 2; Length 266;
Best Local Similarity 100.0%; Pred. No. 0.093;

Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 WTGRMSSCC 9
Db 139 WTGRMSSCC 147

RESULT 11
US-09-367-309A-1

; Sequence 1, Application US/09367309A
; Patent No. 6428807
; GENERAL INFORMATION:
; APPLICANT: MACFARLAN, RODERICK I.
; APPLICANT: MALLIAROS, JIM
; TITLE OF INVENTION: CHELATING IMMUNOSTIMULATING COMPLEXES
; FILE REFERENCE: 017227/0149
; CURRENT APPLICATION NUMBER: US/09/367,309A
; PRIOR FILING DATE: 1999-08-11
; PRIOR APPLICATION NUMBER: PCT/AU98/00080
; PRIOR FILING DATE: 1998-02-13
; PRIOR APPLICATION NUMBER: AU PO 5178
; PRIOR FILING DATE: 1997-02-19
; NUMBER OF SEQ ID NOS: 6
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
; LENGTH: 266
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-09-367-309A-1

Query Match 100.0%; Score 63; DB 2; Length 266;
Best Local Similarity 100.0%; Pred. No. 0.093;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 WTGRMSSCC 9
Db 139 WTGRMSSCC 147

RESULT 12
US-09-485-885-4

; Sequence 4, Application US/09485885
; Patent No. 6342224
; GENERAL INFORMATION:
; APPLICANT: Bruck, Claudine
; APPLICANT: Cabezon Silva, Teresa
; APPLICANT: Delisse, Anne-Marie Eva Bernande
; APPLICANT: Gerard, Catherine Marie Ghislaine
; APPLICANT: Lombardo-Bencheikh, Angela
; TITLE OF INVENTION: Vaccine
; FILE REFERENCE: B45107
; CURRENT APPLICATION NUMBER: US/09/485,885
; PRIOR FILING DATE: 2000-02-18
; PRIOR APPLICATION NUMBER: PCT/EP98/05285
; PRIOR FILING DATE: 1998-08-17
; PRIOR APPLICATION NUMBER: GB 9717953.5
; PRIOR FILING DATE: 1997-08-22
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 4
; LENGTH: 273
; TYPE: PRT
; ORGANISM: Homo sapien
US-09-485-885-4

Query Match 100.0%; Score 63; DB 2; Length 273;
Best Local Similarity 100.0%; Pred. No. 0.096;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 WTGRMSSCC 9
Db 245 WTGRMSSCC 253

RESULT 13
US-09-485-885-10

; Sequence 10, Application US/09485885
; Patent No. 6342224
; GENERAL INFORMATION:
; APPLICANT: Bruck, Claudine
; APPLICANT: Cabezon Silva, Teresa
; APPLICANT: Delisse, Anne-Marie Eva Bernande
; APPLICANT: Gerard, Catherine Marie Ghislaine
; APPLICANT: Lombardo-Bencheikh, Angela
; TITLE OF INVENTION: Vaccine
; FILE REFERENCE: B45107
; CURRENT APPLICATION NUMBER: US/09/485,885
; PRIOR FILING DATE: 2000-02-18
; PRIOR APPLICATION NUMBER: PCT/EP98/05285
; PRIOR FILING DATE: 1998-08-17
; PRIOR APPLICATION NUMBER: GB 9717953.5
; PRIOR FILING DATE: 1997-08-22
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 10
; LENGTH: 292
; TYPE: PRT
; ORGANISM: Homo sapien
US-09-485-885-10

Query Match 100.0%; Score 63; DB 2; Length 292;
Best Local Similarity 100.0%; Pred. No. 0.1;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 WTGRMSSCC 9
Db 264 WTGRMSSCC 272

RESULT 14
US-09-485-885-6

; Sequence 6, Application US/09485885
; Patent No. 6342224
; GENERAL INFORMATION:
; APPLICANT: Bruck, Claudine
; APPLICANT: Cabezon Silva, Teresa
; APPLICANT: Delisse, Anne-Marie Eva Bernande
; APPLICANT: Gerard, Catherine Marie Ghislaine
; APPLICANT: Lombardo-Bencheikh, Angela
; TITLE OF INVENTION: Vaccine
; FILE REFERENCE: B45107
; CURRENT APPLICATION NUMBER: US/09/485,885
; PRIOR FILING DATE: 2000-02-18
; PRIOR APPLICATION NUMBER: PCT/EP98/05285
; PRIOR FILING DATE: 1998-08-17
; PRIOR APPLICATION NUMBER: GB 9717953.5
; PRIOR FILING DATE: 1997-08-22
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 6
; LENGTH: 371
; TYPE: PRT
; ORGANISM: Homo sapien
US-09-485-885-6

Query Match 100.0%; Score 63; DB 2; Length 371;
Best Local Similarity 100.0%; Pred. No. 0.13;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 WTGRMSSCC 9
Db 245 WTGRMSSCC 253

RESULT 15
US-09-485-885-14

```
; Sequence 14, Application US/09485885
; Patent No. 6342224
; GENERAL INFORMATION:
; APPLICANT: Bruck, Claudine
; APPLICANT: Cabezon Silva, Teresa
; APPLICANT: Delisse, Anne-Marie Eva Fernande
; APPLICANT: Gerard, Catherine Marie Ghislaine
; APPLICANT: Lombardo-Bencheikh, Angela
; TITLE OF INVENTION: Vaccine
; FILE REFERENCE: B45107
; CURRENT APPLICATION NUMBER: US/09/485,885
; CURRENT FILING DATE: 2000-02-18
; PRIOR APPLICATION NUMBER: PCT/EP98/05285
; PRIOR FILING DATE: 1998-08-17
; PRIOR APPLICATION NUMBER: GB 9717953.5
; PRIOR FILING DATE: 1997-08-22
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 14
; LENGTH: 390
; TYPE: PRT
; ORGANISM: Homo sapien
; US-09-485-885-14

Query Match          100.0%; Score 63; DB 2; Length 390;
Best Local Similarity 100.0%; Pred. No. 0.13;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 WTGRCSGCC 9
Db 264 WTGRCSGCC 272

RESULT 16
; US-09-252-991A-16576
; Sequence 16576, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 16576
; LENGTH: 144
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
; US-09-252-991A-16576

Query Match          73.0%; Score 46; DB 2; Length 144;
Best Local Similarity 66.7%; Pred. No. 13;
Matches 6; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 WTGRCSGCC 9
Db 63 WPGSCFSCC 71

RESULT 17
; US-09-270-767-36255
; Sequence 36255, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
; APPLICANT: Homburger et al.
; TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
; FILE REFERENCE: File Reference: 7326-094
; CURRENT APPLICATION NUMBER: US/09/270,767
```

```
; CURRENT FILING DATE: 1999-03-17
; NUMBER OF SEQ ID NOS: 62517
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 36255
; LENGTH: 158
; TYPE: PRT
; ORGANISM: Drosophila melanogaster
; FEATURE:
; OTHER INFORMATION: Xaa means any amino acid
; US-09-270-767-36255

Query Match          68.3%; Score 43; DB 2; Length 158;
Best Local Similarity 66.7%; Pred. No. 38;
Matches 6; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 WTGRCSGCC 9
Db 86 WCMRCWSCC 94

RESULT 18
; US-09-270-767-51472
; Sequence 51472, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
; APPLICANT: Homburger et al.
; TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
; FILE REFERENCE: File Reference: 7326-094
; CURRENT APPLICATION NUMBER: US/09/270,767
; CURRENT FILING DATE: 1999-03-17
; NUMBER OF SEQ ID NOS: 62517
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 51472
; LENGTH: 158
; TYPE: PRT
; ORGANISM: Drosophila melanogaster
; FEATURE:
; OTHER INFORMATION: Xaa means any amino acid
; US-09-270-767-51472

Query Match          68.3%; Score 43; DB 2; Length 158;
Best Local Similarity 66.7%; Pred. No. 38;
Matches 6; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 WTGRCSGCC 9
Db 86 WCMRCWSCC 94

RESULT 19
; US-09-311-021-150
; Sequence 150, Application US/09311021
; Patent No. 6706869
; GENERAL INFORMATION:
; APPLICANT: Wong, Gordon G.
; APPLICANT: Clark, Hilary
; APPLICANT: Fechtel, Kim
; APPLICANT: Agostino, Michael J.
; APPLICANT: Genetics Institute, Inc.
; TITLE OF INVENTION: SECRETED PROTEINS AND POLYNUCLEOTIDES ENCODING THEM
; FILE REFERENCE: GI 6300-11A
; CURRENT APPLICATION NUMBER: US/09/311,021
; CURRENT FILING DATE: 1999-05-13
; NUMBER OF SEQ ID NOS: 268
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 150
; LENGTH: 220
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-311-021-150

Query Match          68.3%; Score 43; DB 2; Length 220;
Best Local Similarity 66.7%; Pred. No. 51;
```

Matches 6; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 WTGRMSCC 9
|||
Db 40 WTSCASCC 48

RESULT 20
US-09-252-991A-27361
Sequence 27361, Application US/09252991A
Patent No. 6551795
GENERAL INFORMATION:
APPLICANT: Marc J. Rubenfield et al.
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
FILE REFERENCE: 107196.136
CURRENT APPLICATION NUMBER: US/09/252,991A
CURRENT FILING DATE: 1999-02-18
PRIOR APPLICATION NUMBER: US 60/074,788
PRIOR FILING DATE: 1998-02-18
PRIOR APPLICATION NUMBER: US 60/094,190
PRIOR FILING DATE: 1998-07-27
NUMBER OF SEQ ID NOS: 33142
SEQ ID NO 27361
LENGTH: 217
TYPE: PRT
ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-27361

Query Match 66.7%; Score 42; DB 2; Length 217;
Best Local Similarity 55.6%; Pred. No. 69;
Matches 5; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 1 WTGRMSCC 9
|||
Db 62 WRWRCVACC 70

RESULT 21
US-09-949-016-9721
Sequence 9721, Application US/09949016
Patent No. 6812339
GENERAL INFORMATION:
APPLICANT: VENTER, J. Craig et al.
TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
FILE REFERENCE: CU001307
CURRENT APPLICATION NUMBER: US/09/949,016
CURRENT FILING DATE: 2000-04-14
PRIOR APPLICATION NUMBER: 60/241,755
PRIOR FILING DATE: 2000-10-20
PRIOR APPLICATION NUMBER: 60/237,768
PRIOR FILING DATE: 2000-10-03
PRIOR APPLICATION NUMBER: 60/231,498
PRIOR FILING DATE: 2000-09-08
NUMBER OF SEQ ID NOS: 207012
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 9721
LENGTH: 261
TYPE: PRT
ORGANISM: Human
US-09-949-016-9721

Query Match 66.7%; Score 42; DB 2; Length 261;
Best Local Similarity 75.0%; Pred. No. 82;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 2 TGRCMSCC 9
|||
Db 147 TGRCPACC 154

RESULT 22

US-08-852-666-10
Sequence 10, Application US/08852666
Patent No. 6756355
GENERAL INFORMATION:
APPLICANT: CHADA, Kieran K.
APPLICANT: ASHAR, Hena
APPLICANT: TKACHENKO, Alex
APPLICANT: ZHOU, Xianjin
TITLE OF INVENTION: HMGI PROTEINS IN CANCER AND OBESITY
FILE REFERENCE: 54615.8001.US02
CURRENT APPLICATION NUMBER: US/08/852,666
CURRENT FILING DATE: 1997-05-07
PRIOR APPLICATION NUMBER: US 08/679,529
PRIOR FILING DATE: 1996-07-12
NUMBER OF SEQ ID NOS: 54
SOFTWARE: PatentIn version 3.1
SEQ ID NO 10
LENGTH: 55
TYPE: PRT
ORGANISM: Artificial sequence
FEATURE:
OTHER INFORMATION: A novel sequence fused to the DNA binding domains of HMGI-C which
OTHER INFORMATION: encodes transcriptional regulatory domains: Lh2
NAME/KEY: MISC FEATURE
LOCATION: (10)-(19)
FEATURE:
NAME/KEY: MISC FEATURE
LOCATION: (37)-(47)
OTHER INFORMATION: 10 unspecified amino acids between the two sequences
US-08-852-666-10

Query Match 63.5%; Score 40; DB 2; Length 55;
Best Local Similarity 55.6%; Pred. No. 39;
Matches 5; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY 1 WTGRMSCC 9
|||
Db 22 WHNRCLKCC 30

RESULT 23
US-09-252-991A-22034
Sequence 22034, Application US/09252991A
Patent No. 6551795
GENERAL INFORMATION:
APPLICANT: Marc J. Rubenfield et al.
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
FILE REFERENCE: 107196.136
CURRENT APPLICATION NUMBER: US/09/252,991A
CURRENT FILING DATE: 1999-02-18
PRIOR APPLICATION NUMBER: US 60/074,788
PRIOR FILING DATE: 1998-02-18
PRIOR APPLICATION NUMBER: US 60/094,190
PRIOR FILING DATE: 1998-07-27
NUMBER OF SEQ ID NOS: 33142
SEQ ID NO 22034
LENGTH: 200
TYPE: PRT
ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-22034

Query Match 63.5%; Score 40; DB 2; Length 200;
Best Local Similarity 75.0%; Pred. No. 1.2e+02;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 WTGRMSCC 8
|||
Db 140 WTGRFLSC 147

RESULT 24
US-09-252-991A-23893
Sequence 23893 Application US/09252991A
Patent No. 6551795
GENERAL INFORMATION:
APPLICANT: Marc J. Rubenfield et al.
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
FILE REFERENCE: 107196.136
CURRENT APPLICATION NUMBER: US/09/252.991A
CURRENT FILING DATE: 1999-02-18
PRIOR APPLICATION NUMBER: US 60/074.788
PRIOR FILING DATE: 1998-02-18
PRIOR APPLICATION NUMBER: US 60/094.190
PRIOR FILING DATE: 1998-07-27
NUMBER OF SEQ ID NOS: 33142
SEQ ID NO 23893
LENGTH: 226
TYPE: PR1
ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-23893

Query Match 63.5%; Score 40; DB 2; Length 226;
Best Local Similarity 75.0%; Pred. No. 1.4e+02;
Matches 6; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2 TGRCMSCC 9
Db 105 TGRCMSCC 112

RESULT 25
US-09-000-094-20
Sequence 20 Application US/09000094
Patent No. 6365160
GENERAL INFORMATION:
APPLICANT: WEBB, Elizabeth Ann
MARGETS, Mary Brigid
COX, John Cooper
FRAZER, Ian
MCMILLAN, Nigel Alan John
WILLIAMS, Mark Philip
MOLONEY, Margaret Bridget
Holland
EDWARDS, Stirling John
TITLE OF INVENTION: PAPILLOMAVIRUS POLYPEPTIDE CONSTRUCTS
NUMBER OF SEQUENCES: 50
CORRESPONDENCE ADDRESS:
ADDRESSEE: FOLEY & LARDNER
STREET: 3000 K Street, N.W.
CITY: Washington
STATE: D.C.
COUNTRY: U.S.A.
ZIP: 20007-5109
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/000.094
FILING DATE: 21-Apr-1998
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: WO PCT/AU96/00473
FILING DATE: 26-JUL-1996
APPLICATION NUMBER: AU PN 4439/95
FILING DATE: 27-JUL-1995
ATTORNEY/AGENT INFORMATION:
NAME: BENT, Stephen A.
REGISTRATION NUMBER: 29,768
REFERENCE/DOCKET NUMBER: 017227/0137
TELECOMMUNICATION INFORMATION:

TELEPHONE: (202) 672-5300
TELEFAX: (202) 672-5399
INFORMATION FOR SEQ ID NO: 20:
SEQUENCE CHARACTERISTICS:
LENGTH: 368 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
SEQUENCE DESCRIPTION: SEQ ID NO: 20:
US-09-000-094-20

Query Match 63.5%; Score 40; DB 2; Length 368;
Best Local Similarity 62.5%; Pred. No. 2.1e+02;
Matches 5; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 WTGRCMSC 8
Db 133 WTGRCLHC 140

RESULT 26
US-10-011-749-20
Sequence 20 Application US/10011749
Patent No. 6726912
GENERAL INFORMATION:
APPLICANT: WEBB, Elizabeth Ann
MARGETS, Mary Brigid
COX, John Cooper
FRAZER, Ian
MCMILLAN, Nigel Alan John
WILLIAMS, Mark Philip
MOLONEY, Margaret Bridget
Holland
EDWARDS, Stirling John
TITLE OF INVENTION: PAPILLOMAVIRUS POLYPEPTIDE CONSTRUCTS
NUMBER OF SEQUENCES: 50
CORRESPONDENCE ADDRESS:
ADDRESSEE: FOLEY & LARDNER
STREET: 3000 K Street, N.W.
CITY: Washington
STATE: D.C.
COUNTRY: U.S.A.
ZIP: 20007-5109
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/011.749
FILING DATE: 11-Dec-2001
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/09/000.094
FILING DATE: 21-Apr-1998
APPLICATION NUMBER: WO PCT/AU96/00473
FILING DATE: 26-JUL-1996
APPLICATION NUMBER: AU PN 4439/95
FILING DATE: 27-JUL-1995
ATTORNEY/AGENT INFORMATION:
NAME: BENT, Stephen A.
REGISTRATION NUMBER: 29,768
REFERENCE/DOCKET NUMBER: 017227/0137
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 672-5300
TELEFAX: (202) 672-5399
INFORMATION FOR SEQ ID NO: 20:
SEQUENCE CHARACTERISTICS:
LENGTH: 368 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
SEQUENCE DESCRIPTION: SEQ ID NO: 20:

US-10-011-749-20

Query Match 63.5%; Score 40; DB 2; Length 368;
Best Local Similarity 62.5%; Pred. No. 2.1e+02;
Matches 5; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 WTGRCMSC 8
DB 133 WKGRCLHC 140

RESULT 27
US-09-000-094-22

Sequence 22, Application US/09000094
Patent No. 6365160
GENERAL INFORMATION:
APPLICANT: WEBB, Elizabeth Ann
COX, John Cooper
FRAZER, Ian
MCWILLAN, Nigel Alan John
WILLIAMS, Mark Philip
MOLONEY, Margaret Bridget
Holland
EDWARDS, Stirling John

TITLE OF INVENTION: PAPILLOMAVIRUS POLYPROTEIN CONSTRUCTS
NUMBER OF SEQUENCES: 50
CORRESPONDENCE ADDRESS:
ADDRESSEE: FOLEY & LARDNER
STREET: 3000 K Street, N.W.
CITY: Washington
STATE: D.C.
COUNTRY: U.S.A.
ZIP: 20007-5109

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30

CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/000,094
FILING DATE: 21-Apr-1998
CLASSIFICATION: <Unknown>

PRIOR APPLICATION DATA:
APPLICATION NUMBER: WO PCT/AU96/00473
FILING DATE: 26-JUL-1996
APPLICATION NUMBER: AU PN 4439/95
FILING DATE: 27-JUL-1995

ATTORNEY/AGENT INFORMATION:
NAME: BENT, Stephen A.
REGISTRATION NUMBER: 29,768
REFERENCE/DOCKET NUMBER: 017227/0137
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 672-5300
TELEFAX: (202) 672-5399

INFORMATION FOR SEQ ID NO: 22:
SEQUENCE CHARACTERISTICS:
LENGTH: 375 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
SEQUENCE DESCRIPTION: SEQ ID NO: 22:

US-09-000-094-22

Query Match 63.5%; Score 40; DB 2; Length 375;
Best Local Similarity 62.5%; Pred. No. 2.2e+02;
Matches 5; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 WTGRCMSC 8
DB 133 WKGRCLHC 140

RESULT 28
US-10-011-749-22

Sequence 22, Application US/10011749
Patent No. 6726912
GENERAL INFORMATION:
APPLICANT: WEBB, Elizabeth Ann
COX, John Cooper
FRAZER, Ian
MCWILLAN, Nigel Alan John
WILLIAMS, Mark Philip
MOLONEY, Margaret Bridget
Holland
EDWARDS, Stirling John

TITLE OF INVENTION: PAPILLOMAVIRUS POLYPROTEIN CONSTRUCTS
NUMBER OF SEQUENCES: 50
CORRESPONDENCE ADDRESS:
ADDRESSEE: FOLEY & LARDNER
STREET: 3000 K Street, N.W.
CITY: Washington
STATE: D.C.
COUNTRY: U.S.A.
ZIP: 20007-5109

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30

CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/011,749
FILING DATE: 11-Dec-2001
CLASSIFICATION: <Unknown>

PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/09/000,094
FILING DATE: 21-Apr-1998
APPLICATION NUMBER: WO PCT/AU96/00473
FILING DATE: 26-JUL-1996
APPLICATION NUMBER: AU PN 4439/95
FILING DATE: 27-JUL-1995

ATTORNEY/AGENT INFORMATION:
NAME: BENT, Stephen A.
REGISTRATION NUMBER: 29,768
REFERENCE/DOCKET NUMBER: 017227/0137
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 672-5300
TELEFAX: (202) 672-5399

INFORMATION FOR SEQ ID NO: 22:
SEQUENCE CHARACTERISTICS:
LENGTH: 375 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
SEQUENCE DESCRIPTION: SEQ ID NO: 22:

US-10-011-749-22

Query Match 63.5%; Score 40; DB 2; Length 375;
Best Local Similarity 62.5%; Pred. No. 2.2e+02;
Matches 5; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 WTGRCMSC 8
DB 133 WKGRCLHC 140

RESULT 29
US-09-252-991A-25098

Sequence 25098, Application US/09252991A
Patent No. 6551795
GENERAL INFORMATION:
APPLICANT: Marc J. Rubenfield et al.
NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
FILE REFERENCE: 107196.136

Query Match 63.5%; Score 40; DB 2; Length 375;
Best Local Similarity 62.5%; Pred. No. 2.2e+02;
Matches 5; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 WTGRCMSC 8
DB 133 WKGRCLHC 140

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; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 25098
; LENGTH: 399
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
; US-09-252-991A-25098

Query Match
Best Local Similarity 63.5%; Score 40; DB 2; Length 399;
Matches 5; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

Qy 1 WTGRCMSCC 9
Db 40 WKARCACCC 48

RESULT 30
US-09-949-016-9433
; Sequence 9433, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 9433
; LENGTH: 405
; TYPE: PRT
; ORGANISM: Human
; US-09-949-016-9433

Query Match
Best Local Similarity 63.5%; Score 40; DB 2; Length 405;
Matches 5; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

Qy 1 WTGRCMSCC 9
Db 72 WMRCLKCC 80

RESULT 31
US-09-000-094-24
; Sequence 24, Application US/09000094
; Patent No. 6365160
; GENERAL INFORMATION:
; APPLICANT: WEBB, Elizabeth Ann
; MARGETTS, Mary Bridgid
; COX, John Cooper
; FRAZER, Ian
; MCWILLAN, Nigel Alan John
; WILLIAMS, Mark Philip
; MOLONEY, Margaret Bridget
; Holland
; EDWARDS, Stirling John
; TITLE OF INVENTION: PAPILLOMAVIRUS POLYPROTEIN CONSTRUCTS
; NUMBER OF SEQUENCES: 50
; CORRESPONDENCE ADDRESS:
```

```

; ADDRESSEE: FOLEY & LARDNER
; STREET: 3000 K Street, N.W.
; CITY: Washington
; STATE: D.C.
; COUNTRY: U.S.A.
; ZIP: 20007-5109
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: IBM PC compatible
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/000,094
; FILING DATE: 21-Apr-1998
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: WO PCT/AU96/00473
; FILING DATE: 26-JUL-1996
; APPLICATION NUMBER: AU PN 4439/95
; FILING DATE: 27-JUL-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: BENT, Stephen A.
; REGISTRATION NUMBER: 29,768
; REFERENCE/DOCKET NUMBER: 017227/0137
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202) 672-5300
; TELEFAX: (202) 672-5399
; INFORMATION FOR SEQ ID NO: 24:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 465 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; SEQUENCE DESCRIPTION: SEQ ID NO: 24:
; US-09-000-094-24

Query Match
Best Local Similarity 63.5%; Score 40; DB 2; Length 465;
Matches 5; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Qy 1 WTGRCMSCC 8
Db 133 WKGRCLHC 140

RESULT 32
US-10-011-749-24
; Sequence 24, Application US/10011749
; Patent No. 6726912
; GENERAL INFORMATION:
; APPLICANT: WEBB, Elizabeth Ann
; MARGETTS, Mary Bridgid
; COX, John Cooper
; FRAZER, Ian
; MCWILLAN, Nigel Alan John
; WILLIAMS, Mark Philip
; MOLONEY, Margaret Bridget
; Holland
; EDWARDS, Stirling John
; TITLE OF INVENTION: PAPILLOMAVIRUS POLYPROTEIN CONSTRUCTS
; NUMBER OF SEQUENCES: 50
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: FOLEY & LARDNER
; STREET: 3000 K Street, N.W.
; CITY: Washington
; STATE: D.C.
; COUNTRY: U.S.A.
; ZIP: 20007-5109
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: IBM PC compatible
; SOFTWARE: Patentin Release #1.0, Version #1.30
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CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/011,749
FILING DATE: 11-Dec-2001
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/09/000,094
FILING DATE: 21-Apr-1998
APPLICATION NUMBER: WO PCT/AU96/00473
FILING DATE: 26-JUL-1996
APPLICATION NUMBER: AU PN 4439/95
FILING DATE: 27-JUL-1995
ATTORNEY/AGENT INFORMATION:
NAME: BENT, Stephen A.
REGISTRATION NUMBER: 29,768
REFERENCE/DOCKET NUMBER: 017227/0137
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 672-5390
TELEFAX: (202) 672-5399
INFORMATION FOR SEQ ID NO: 24:
SEQUENCE CHARACTERISTICS:
LENGTH: 465 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
SEQUENCE DESCRIPTION: SEQ ID NO: 24:
US-10-011-749-24

Query Match 63.5%; Score 40; DB 2; Length 465;
Best Local Similarity 62.5%; Pred. No. 2.6e+02;
Matches 5; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 WTGRCMSC 8
Db 133 WKGRCLHC 140

RESULT 33
US-09-000-094-46
Sequence 46, Application US/09000094
Patent No. 6365160
GENERAL INFORMATION:
APPLICANT: WEBB, Elizabeth Ann
MARGETS, Mary Brigid
COX, John Cooper
FRAZER, Ian
MCWILLAN, Nigel Alan John
WILLIAMS, Mark Philip
MOLONEY, Margaret Bridget
Holland
EDWARDS, Stirling John
TITLE OF INVENTION: PAPILLOMAVIRUS POLYPEPTIDE CONSTRUCTS
NUMBER OF SEQUENCES: 50
CORRESPONDENCE ADDRESS:
ADDRESSEE: FOLEY & LARDNER
STREET: 3000 K Street, N.W.
CITY: Washington
STATE: D.C.
COUNTRY: U.S.A.
ZIP: 20007-5109
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/000,094
FILING DATE: 21-Apr-1998
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: WO PCT/AU96/00473
FILING DATE: 26-JUL-1996
APPLICATION NUMBER: AU PN 4439/95
FILING DATE: 27-JUL-1995

ATTORNEY/AGENT INFORMATION:
NAME: BENT, Stephen A.
REGISTRATION NUMBER: 29,768
REFERENCE/DOCKET NUMBER: 017227/0137
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 672-5390
TELEFAX: (202) 672-5399
INFORMATION FOR SEQ ID NO: 46:
SEQUENCE CHARACTERISTICS:
LENGTH: 1587 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
SEQUENCE DESCRIPTION: SEQ ID NO: 46:
US-09-000-094-46

Query Match 63.5%; Score 40; DB 2; Length 1587;
Best Local Similarity 62.5%; Pred. No. 7.9e+02;
Matches 5; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 WTGRCMSC 8
Db 819 WKGRCLHC 826

RESULT 34
US-10-011-749-46
Sequence 46, Application US/10011749
Patent No. 6726912
GENERAL INFORMATION:
APPLICANT: WEBB, Elizabeth Ann
MARGETS, Mary Brigid
COX, John Cooper
FRAZER, Ian
MCWILLAN, Nigel Alan John
WILLIAMS, Mark Philip
MOLONEY, Margaret Bridget
Holland
EDWARDS, Stirling John
TITLE OF INVENTION: PAPILLOMAVIRUS POLYPEPTIDE CONSTRUCTS
NUMBER OF SEQUENCES: 50
CORRESPONDENCE ADDRESS:
ADDRESSEE: FOLEY & LARDNER
STREET: 3000 K Street, N.W.
CITY: Washington
STATE: D.C.
COUNTRY: U.S.A.
ZIP: 20007-5109
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/011,749
FILING DATE: 11-Dec-2001
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/09/000,094
FILING DATE: 21-Apr-1998
APPLICATION NUMBER: WO PCT/AU96/00473
FILING DATE: 26-JUL-1996
APPLICATION NUMBER: AU PN 4439/95
FILING DATE: 27-JUL-1995
ATTORNEY/AGENT INFORMATION:
NAME: BENT, Stephen A.
REGISTRATION NUMBER: 29,768
REFERENCE/DOCKET NUMBER: 017227/0137
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 672-5390
TELEFAX: (202) 672-5399
INFORMATION FOR SEQ ID NO: 46:
SEQUENCE CHARACTERISTICS:

LENGTH: 1587 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; SEQUENCE DESCRIPTION: SEQ ID NO: 46:
US-10-011-749-46

Query Match 63.5%; Score 40; DB 2; Length 1587;
Best Local Similarity 62.5%; Pred. No. 7.9e+02;
Matches 5; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 WTGRCMSC 8
| | | | |
DB 819 WKRCCLHC 826

RESULT 35
US-09-270-767-60688
; Sequence 60688, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
; APPLICANT: Homburger et al.
; TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
; FILE REFERENCE: File Reference: 7326-094
; CURRENT APPLICATION NUMBER: US/09/270,767
; CURRENT FILING DATE: 1999-03-17
; NUMBER OF SEQ ID NOS: 62517
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 60688
; LENGTH: 34
; TYPE: PRT
; ORGANISM: Drosophila melanogaster .
US-09-270-767-60688

Query Match 61.9%; Score 39; DB 2; Length 34;
Best Local Similarity 55.6%; Pred. No. 35;
Matches 5; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 1 WTGRCMSC 9
| | | | |
DB 20 WLRHCFSCC 28

RESULT 36
US-09-270-767-45191
; Sequence 45191, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
; APPLICANT: Homburger et al.
; TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
; FILE REFERENCE: File Reference: 7326-094
; CURRENT APPLICATION NUMBER: US/09/270,767
; CURRENT FILING DATE: 1999-03-17
; NUMBER OF SEQ ID NOS: 62517
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 45191
; LENGTH: 243
; TYPE: PRT
; ORGANISM: Drosophila melanogaster
US-09-270-767-45191

Query Match 61.9%; Score 39; DB 2; Length 243;
Best Local Similarity 55.6%; Pred. No. 2e+02;
Matches 5; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 1 WTGRCMSC 9
| | | | |
DB 20 WLRHCFSCC 28

RESULT 37
US-09-252-991A-18776
; Sequence 18776, Application US/09252991A

; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 18776
; LENGTH: 266
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-18776

Query Match 61.9%; Score 39; DB 2; Length 266;
Best Local Similarity 75.0%; Pred. No. 2.2e+02;
Matches 6; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2 TGRCCGCC 9
| | | | |
DB 212 TGRCCGCC 219

RESULT 38
US-09-270-767-35372
; Sequence 35372, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
; APPLICANT: Homburger et al.
; TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
; FILE REFERENCE: File Reference: 7326-094
; CURRENT APPLICATION NUMBER: US/09/270,767
; CURRENT FILING DATE: 1999-03-17
; NUMBER OF SEQ ID NOS: 62517
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 35372
; LENGTH: 73
; TYPE: PRT
; ORGANISM: Drosophila melanogaster
US-09-270-767-35372

Query Match 61.1%; Score 38.5; DB 2; Length 73;
Best Local Similarity 70.0%; Pred. No. 81;
Matches 7; Conservative 0; Mismatches 2; Indels 1; Gaps 1;

QY 1 W-TGRCMSC 9
| | | | |
DB 17 WTRKRCSCC 26

RESULT 39
US-09-270-767-50589
; Sequence 50589, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
; APPLICANT: Homburger et al.
; TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
; FILE REFERENCE: File Reference: 7326-094
; CURRENT APPLICATION NUMBER: US/09/270,767
; CURRENT FILING DATE: 1999-03-17
; NUMBER OF SEQ ID NOS: 62517
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 50589
; LENGTH: 73
; TYPE: PRT
; ORGANISM: Drosophila melanogaster
US-09-270-767-50589

Query Match 61.1%; Score 38.5; DB 2; Length 73;
Best Local Similarity 70.0%; Pred. No. 81;
Matches 7; Conservative 0; Mismatches 2; Indels 1; Gaps 1;

QY 1 W-TGRMSSCC 9
DB 17 WTKRCASCC 26

RESULT 40

US-09-198-452A-1276
; Sequence 1276, Application US/09198452A
; Patent No. 6559294
; GENERAL INFORMATION:
; APPLICANT: Griffiths, R.
; TITLE OF INVENTION: Chlamydia pneumoniae genomic sequence and polypeptides, fragments
; TITLE OF INVENTION: thereof and uses thereof, in particular for the diagnosis, prevention
; FILE REFERENCE: 9710-003-999
; CURRENT APPLICATION NUMBER: US/09/198,452A
; CURRENT FILING DATE: 1998-11-24
; NUMBER OF SEQ ID NOS: 6849
; SEQ ID NO 1276
; LENGTH: 84
; TYPE: PRT
; ORGANISM: Chlamydia pneumoniae
US-09-198-452A-1276

Query Match 61.1%; Score 38.5; DB 2; Length 84;
Best Local Similarity 77.8%; Pred. No. 92;
Matches 7; Conservative 0; Mismatches 1; Indels 1; Gaps 1;

QY 1 WTKRCMSSCC 9
DB 7 WT-RCSSCC 14

RESULT 41

US-09-270-767-59799
; Sequence 59799, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
; APPLICANT: Homburger et al.
; TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
; FILE REFERENCE: File Reference: 7326-094
; CURRENT APPLICATION NUMBER: US/09/270,767
; CURRENT FILING DATE: 1999-03-17
; NUMBER OF SEQ ID NOS: 62517
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 59799
; LENGTH: 139
; TYPE: PRT
; ORGANISM: Drosophila melanogaster
; FEATURE:
; OTHER INFORMATION: Xaa means any amino acid
US-09-270-767-59799

Query Match 61.1%; Score 38.5; DB 2; Length 139;
Best Local Similarity 60.0%; Pred. No. 1,4e+02;
Matches 6; Conservative 1; Mismatches 2; Indels 1; Gaps 1;

QY 1 WTKRCM-SCC 9
DB 89 WDKRCIXECC 98

RESULT 42

US-09-270-767-44373
; Sequence 44373, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
; APPLICANT: Homburger et al.
; TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster

FILE REFERENCE: File Reference: 7326-094
; CURRENT APPLICATION NUMBER: US/09/270,767
; CURRENT FILING DATE: 1999-03-17
; NUMBER OF SEQ ID NOS: 62517
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 44373
; LENGTH: 586
; TYPE: PRT
; ORGANISM: Drosophila melanogaster
; FEATURE:
; OTHER INFORMATION: Xaa means any amino acid
US-09-270-767-44373

Query Match 61.1%; Score 38.5; DB 2; Length 586;
Best Local Similarity 60.0%; Pred. No. 5.2e+02;
Matches 6; Conservative 1; Mismatches 2; Indels 1; Gaps 1;

QY 1 WTKRCM-SCC 9
DB 89 WDKRCIXECC 98

RESULT 43

US-08-986-234-33
; Sequence 33, Application US/08986234
; Patent No. 5981706
; GENERAL INFORMATION:
; APPLICANT: Wallen, et al.
; TITLE OF INVENTION: Methods for synthesizing Heat Shock Protein Complexes
; FILE REFERENCE: UNM-0008-1
; CURRENT APPLICATION NUMBER: US/08/986,234
; CURRENT FILING DATE: 1997-12-05
; NUMBER OF SEQ ID NOS: 114
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 33
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Hepatitis C virus
US-08-986-234-33

Query Match 60.3%; Score 38; DB 1; Length 16;
Best Local Similarity 55.6%; Pred. No. 24;
Matches 5; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 1 WTKRCMSSCC 9
DB 5 WTKACVTPC 13

RESULT 44

US-09-673-395A-147
; Sequence 147, Application US/09673395A
; Patent No. 6620923
; GENERAL INFORMATION:
; APPLICANT: SPECHT, THOMAS
; APPLICANT: HINZMANN, BERND
; APPLICANT: SCHMITT, ARMIN
; APPLICANT: PILARSKY, CHRISTIAN
; APPLICANT: DAHL, EDGAR
; APPLICANT: ROSENTHAL, ANDRE
; TITLE OF INVENTION: HUMAN NUCLEIC ACID SEQUENCES FROM UTERUS TUMOR TISSUE
; FILE REFERENCE: ALBRE-12
; CURRENT APPLICATION NUMBER: US/09/673,395A
; CURRENT FILING DATE: 2000-10-17
; NUMBER OF SEQ ID NOS: 637
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 147
; LENGTH: 66
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-673-395A-147

Query Match 60.3%; Score 38; DB 2; Length 66;

Best Local Similarity 62.5%; Pred. No. 87;
Matches 5; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 1 WTGRCSMC 8
Db 53 WNGRCSCMC 60

RESULT 45

US-09-252-991A-27237
; Sequence 27237, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; PRIOR FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 27237
; LENGTH: 87
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-27237

Query Match 60.3%; Score 38; DB 2; Length 87;
Best Local Similarity 71.4%; Pred. No. 1,1e+02;
Matches 5; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 3 GRCSMC 9
Db 42 GRCRC 48

RESULT 46

US-09-289-198-304
; Sequence 304, Application US/09289198
; Patent No. 6586570
; GENERAL INFORMATION:
; APPLICANT: Fridakis, Tony N.
; APPLICANT: Smith, John M.
; APPLICANT: Reed, Steven G.
; APPLICANT: Misner, Lynda
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE
; TITLE OF INVENTION: TREATMENT AND DIAGNOSIS OF BREAST CANCER
; FILE REFERENCE: 210121.419C5
; CURRENT APPLICATION NUMBER: US/09/289,198
; CURRENT FILING DATE: 1999-04-09
; EARLIER APPLICATION NUMBER: US 09/062,451
; EARLIER FILING DATE: 1998-04-17
; EARLIER APPLICATION NUMBER: US 08/991,789
; EARLIER FILING DATE: 1997-12-11
; EARLIER APPLICATION NUMBER: US 08/838,762
; EARLIER FILING DATE: 1997-04-09
; EARLIER APPLICATION NUMBER: PCT/US97/00485
; EARLIER FILING DATE: 1997-01-10
; EARLIER APPLICATION NUMBER: US 08/700,014
; EARLIER FILING DATE: 1996-08-20
; EARLIER APPLICATION NUMBER: US 08/585,392
; EARLIER FILING DATE: 1996-01-01
; NUMBER OF SEQ ID NOS: 312
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 304
; LENGTH: 384
; TYPE: PRT
; ORGANISM: Homo sapien
US-09-289-198-304

Query Match 60.3%; Score 38; DB 2; Length 384;
Best Local Similarity 55.6%; Pred. No. 4.2e+02;
Matches 5; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

Qy 1 WTGRCSMC 9
Db 27 WCCRCFPCC 35

RESULT 47

US-09-429-755-304
; Sequence 304, Application US/09429755A
; Patent No. 6656480
; GENERAL INFORMATION:
; APPLICANT: Fridakis, Tony N.
; APPLICANT: Smith, John M.
; APPLICANT: Reed, Steven G.
; APPLICANT: Misner, Lynda
; APPLICANT: Retter, Marc W.
; APPLICANT: Dillon, David C.
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE
; TITLE OF INVENTION: TREATMENT AND DIAGNOSIS OF BREAST CANCER
; FILE REFERENCE: 210121.419C6
; CURRENT APPLICATION NUMBER: US/09/429,755A
; CURRENT FILING DATE: 1999-10-28
; NUMBER OF SEQ ID NOS: 315
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 304
; LENGTH: 384
; TYPE: PRT
; ORGANISM: Homo sapien
US-09-429-755-304

Query Match 60.3%; Score 38; DB 2; Length 384;
Best Local Similarity 55.6%; Pred. No. 4.2e+02;
Matches 5; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

Qy 1 WTGRCSMC 9
Db 27 WCCRCFPCC 35

RESULT 48

US-09-699-295-304
; Sequence 304, Application US/09699295
; Patent No. 6828431
; GENERAL INFORMATION:
; APPLICANT: Fridakis, Tony N.
; APPLICANT: Reed, Steven G.
; APPLICANT: Smith, John M.
; APPLICANT: Misner, Linda E.
; APPLICANT: Dillon, David C.
; APPLICANT: Retter, Marc W.
; APPLICANT: Wang, Aijun
; APPLICANT: Skeiky, Yaelir A.W.
; APPLICANT: Harlocker, Susan L.
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE
; TITLE OF INVENTION: THERAPY AND DIAGNOSIS OF BREAST CANCER
; FILE REFERENCE: 210121.419C10
; CURRENT APPLICATION NUMBER: US/09/699,295
; CURRENT FILING DATE: 2000-10-26
; NUMBER OF SEQ ID NOS: 326
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 304
; LENGTH: 384
; TYPE: PRT
; ORGANISM: Homo sapien
US-09-699-295-304

Query Match 60.3%; Score 38; DB 2; Length 384;
Best Local Similarity 55.6%; Pred. No. 4.2e+02;
Matches 5; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

Qy 1 WTGRMSSC 9
Db 27 WCCRCFPCC 35

Search completed: May 5, 2006, 04:00:48
Job time: 25 secs

RESULT 49
US-09-534-825A-304

; Sequence 304, Application US/09534825A
; Patent No. 6861506

; GENERAL INFORMATION:

; APPLICANT: Frudakis, Tony N.
; APPLICANT: Smith, John M.

; APPLICANT: Reed, Steven G.
; APPLICANT: Misher, Lynda

; APPLICANT: Retter, Marc W.
; APPLICANT: Dillon, Davin C.

; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE
; TREATMENT AND DIAGNOSIS OF BREAST CANCER

; FILE REFERENCE: 210121.419C7
; CURRENT APPLICATION NUMBER: US/09/534,825A

; CURRENT FILING DATE: 2000-03-23
; NUMBER OF SEQ ID NOS: 317

; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 304

; LENGTH: 384
; TYPE: PRT

; ORGANISM: Homo sapien

US-09-534-825A-304

Query Match 60.3%; Score 38; DB 2; Length 384;
Best Local Similarity 55.6%; Pred. No. 4.2e+02;
Matches 5; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

Qy 1 WTGRMSSC 9
Db 27 WCCRCFPCC 35

RESULT 50

US-09-699-295-324
; Sequence 324, Application US/09699295

; Patent No. 6828431
; GENERAL INFORMATION:

; APPLICANT: Frudakis, Tony N.
; APPLICANT: Reed, Steven G.

; APPLICANT: Smith, John M.
; APPLICANT: Misher, Linda E.

; APPLICANT: Dillon, Davin C.
; APPLICANT: Retter, Marc W.

; APPLICANT: Wang, Aijun
; APPLICANT: Skeiky, Yasir A.W.

; APPLICANT: Harlocker, Susan L.

; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE
; TREATMENT AND DIAGNOSIS OF BREAST CANCER

; FILE REFERENCE: 210121.419C10
; CURRENT APPLICATION NUMBER: US/09/699,295

; CURRENT FILING DATE: 2000-10-26
; NUMBER OF SEQ ID NOS: 326

; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 324

; LENGTH: 529
; TYPE: PRT

; ORGANISM: Homo sapiens

US-09-699-295-324

Query Match 60.3%; Score 38; DB 2; Length 529;
Best Local Similarity 55.6%; Pred. No. 5.6e+02;
Matches 5; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

Qy 1 WTGRMSSC 9
Db 172 WCCRCFPCC 180

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OM protein - protein search, using sw model

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Title: US-08-170-344-36
Perfect score: 63
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Post-processing: Minimum Match 0%
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and is derived by analysis of the total score distribution.

SUMMARIES

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2	63	100.0	20	US-10-938-249-513	Sequence 513, App
3	63	100.0	24	US-10-476-570-44	Sequence 44, Appli
4	63	100.0	24	US-11-021-949-5	Sequence 5, Appli
5	63	100.0	151	US-10-177-390-6	Sequence 6, Appli
6	63	100.0	151	US-10-484-063-20	Sequence 20, Appli
7	63	100.0	151	US-10-484-063-27	Sequence 27, Appli
8	63	100.0	158	US-10-858-384-2	Sequence 2, Appli
9	63	100.0	158	US-10-367-057-16	Sequence 16, Appli
10	63	100.0	158	US-11-021-949-13	Sequence 13, Appli
11	63	100.0	171	US-10-472-724-2	Sequence 2, Appli
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13	63	100.0	266	US-09-367-309A-1	Sequence 1, Appli
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26	47	74.6	27	US-10-372-876-441	Sequence 437, App
27	47	74.6	135	US-10-097-065-437	Sequence 437, App

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33	45	71.4	204	US-10-425-115-341074	Sequence 341074, Appli
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35	44	69.8	148	US-11-021-949-359	Sequence 359, App
36	43	68.3	148	US-11-021-949-19	Sequence 19, Appli
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53	41	65.1	155	US-11-021-949-23	Sequence 23, Appli
54	41	65.1	292	US-10-369-493-18618	Sequence 18618, A
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56	41	65.1	573	US-10-094-749-3195	Sequence 3195, App
57	40	63.5	18	US-10-938-249-525	Sequence 525, App
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59	40	63.5	56	US-10-425-115-26658	Sequence 26658, App
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61	40	63.5	66	US-10-767-701-48889	Sequence 48889, A
62	40	63.5	100	US-10-425-115-264526	Sequence 264526, A
63	40	63.5	108	US-10-425-115-301294	Sequence 301294, A
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66	40	63.5	149	US-11-021-949-16	Sequence 16, Appli
67	40	63.5	150	US-10-367-057-11	Sequence 11, Appli
68	40	63.5	153	US-11-021-949-20	Sequence 20, Appli
69	40	63.5	332	US-10-108-260A-2799	Sequence 2799, App
70	40	63.5	581	US-10-094-749-2981	Sequence 2981, App
71	40	63.5	1135	US-10-450-763-56108	Sequence 56108, A
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76	39	61.9	123	US-10-425-115-316654	Sequence 316654, Appli
77	39	61.9	196	US-10-276-774-2551	Sequence 2551, App
78	39	61.9	257	US-10-732-923-5765	Sequence 5765, App
79	39	61.9	426	US-10-270-333-87	Sequence 87, Appli
80	39	61.9	426	US-11-097-143-16710	Sequence 16710, A
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83	39	61.9	993	US-10-818-066-32	Sequence 32, Appli
84	38.5	61.1	84	US-10-289-762-1276	Sequence 1276, App
85	38.5	61.1	372	US-10-437-963-193291	Sequence 193291, Appli
86	38.5	61.1	578	US-09-977-013A-32	Sequence 32, Appli
87	38.5	61.1	578	US-09-977-751C-32	Sequence 32, Appli
88	38.5	61.1	578	US-09-977-639A-32	Sequence 32, Appli
89	38.5	61.1	578	US-09-977-819B-32	Sequence 32, Appli
90	38.5	61.1	578	US-09-977-819B-35	Sequence 35, App
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92	38	60.3	20	US-10-212-679-356	Sequence 356, App
93	38	60.3	20	US-10-212-679-357	Sequence 357, App
94	38	60.3	20	US-10-079-137B-355	Sequence 355, App
95	38	60.3	20	US-10-079-137B-356	Sequence 356, App
96	38	60.3	20	US-10-079-137B-357	Sequence 357, App
97	38	60.3	20	US-10-938-249-536	Sequence 536, App
98	38	60.3	33	US-10-212-679-426	Sequence 426, App
99	38	60.3	33	US-10-079-137B-426	Sequence 426, App
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101	38	60.3	69	4	US-10-424-599-284858	Sequence 284858,	174	38	60.3	671	3	US-09-780-669-380	Sequence 380, App
102	38	60.3	79	4	US-09-867-550-860	Sequence 860, App	175	38	60.3	671	3	US-09-810-938-306	Sequence 306, App
103	38	60.3	79	4	US-10-425-115-267815	Sequence 267815,	176	38	60.3	671	3	US-09-822-927-380	Sequence 380, App
104	38	60.3	83	4	US-10-424-599-238873	Sequence 238873,	177	38	60.3	671	3	US-09-429-755-306	Sequence 306, App
105	38	60.3	96	4	US-10-425-115-338053	Sequence 338053,	178	38	60.3	671	3	US-09-924-400-306	Sequence 306, App
106	38	60.3	101	4	US-10-424-599-175655	Sequence 175655,	179	38	60.3	671	3	US-09-895-793-380	Sequence 380, App
107	38	60.3	103	5	US-10-450-763-48417	Sequence 48417, A	180	38	60.3	671	3	US-09-895-814-380	Sequence 380, App
108	38	60.3	106	4	US-10-767-701-39250	Sequence 39250, A	181	38	60.3	671	4	US-10-812-896-380	Sequence 380, App
109	38	60.3	116	4	US-10-425-115-322165	Sequence 322165,	182	38	60.3	671	4	US-10-10-940-380	Sequence 380, App
110	38	60.3	118	4	US-10-425-115-220603	Sequence 220603,	183	38	60.3	671	4	US-10-212-679-306	Sequence 306, App
111	38	60.3	140	4	US-10-425-115-236774	Sequence 236774,	184	38	60.3	671	4	US-10-144-678A-380	Sequence 380, App
112	38	60.3	141	5	US-10-450-763-58776	Sequence 58776, A	185	38	60.3	671	4	US-10-033-527-10	Sequence 10, App
113	38	60.3	155	4	US-10-425-114-39069	Sequence 39069, A	186	38	60.3	671	4	US-10-294-025-380	Sequence 380, App
114	38	60.3	188	4	US-10-437-963-104242	Sequence 104242,	187	38	60.3	671	4	US-10-079-137B-106	Sequence 306, App
115	38	60.3	190	4	US-10-425-115-280642	Sequence 280642,	188	38	60.3	836	4	US-10-425-115-261578	Sequence 261578,
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117	38	60.3	233	6	US-11-097-143-40224	Sequence 40224, A	190	38	60.3	963	4	US-10-425-114-33483	Sequence 3483, A
118	38	60.3	239	4	US-10-425-114-70693	Sequence 70693, A	191	38	60.3	978	4	US-10-393-840-956	Sequence 956, App
119	38	60.3	247	3	US-09-932-165-1470	Sequence 1470, Ap	192	38	60.3	1005	3	US-09-802-127-5	Sequence 5, App
120	38	60.3	263	4	US-10-437-963-170240	Sequence 170240,	193	38	60.3	1026	4	US-10-425-115-228151	Sequence 228151,
121	38	60.3	269	4	US-10-425-114-62246	Sequence 62246, A	194	38	60.3	1094	4	US-10-209-059-18	Sequence 18, App
122	38	60.3	282	3	US-09-932-165-1462	Sequence 1462, Ap	195	38	60.3	1094	4	US-10-160-719-26	Sequence 26, App
123	38	60.3	327	3	US-09-938-626-5473	Sequence 5473, Ap	196	38	60.3	1094	4	US-10-160-719-46	Sequence 46, App
124	38	60.3	328	4	US-10-108-260A-4708	Sequence 4708, Ap	197	38	60.3	1094	4	US-10-627-135-18	Sequence 18, App
125	38	60.3	338	4	US-10-224-999A-3463	Sequence 3463, Ap	198	38	60.3	1094	4	US-10-425-115-239848	Sequence 229848,
126	38	60.3	338	4	US-10-437-963-103979	Sequence 103979,	199	38	60.3	1094	4	US-10-425-115-239855	Sequence 229855,
127	38	60.3	384	3	US-09-825-301-8	Sequence 8, App	200	38	60.3	1094	5	US-10-963-217-18	Sequence 18, App
128	38	60.3	384	3	US-09-810-936-304	Sequence 304, App	201	38	60.3	1094	5	US-10-961-254-26	Sequence 26, App
129	38	60.3	384	3	US-09-810-936-334	Sequence 334, App	202	38	60.3	1094	5	US-10-961-254-46	Sequence 46, App
130	38	60.3	384	3	US-09-429-755-304	Sequence 304, App	203	38	60.3	1165	3	US-09-900-237-8	Sequence 8, App
131	38	60.3	384	3	US-09-924-400-304	Sequence 304, App	204	38	60.3	1119	3	US-09-759-143-378	Sequence 378, App
132	38	60.3	384	3	US-09-924-400-334	Sequence 334, App	205	38	60.3	1119	3	US-09-780-669-378	Sequence 378, App
133	38	60.3	384	4	US-10-212-679-304	Sequence 304, App	206	38	60.3	1119	3	US-09-822-827-378	Sequence 378, App
134	38	60.3	384	4	US-10-212-679-334	Sequence 334, App	207	38	60.3	1119	3	US-09-895-793-378	Sequence 378, App
135	38	60.3	384	4	US-10-033-527-8	Sequence 8, App	208	38	60.3	1119	3	US-09-895-814-378	Sequence 378, App
136	38	60.3	384	4	US-10-079-137B-304	Sequence 304, App	209	38	60.3	1119	4	US-10-012-896-378	Sequence 378, App
137	38	60.3	392	6	US-11-097-143-42591	Sequence 334, App	210	38	60.3	1119	4	US-10-010-940-378	Sequence 378, App
138	38	60.3	392	6	US-09-924-400-336	Sequence 336, App	211	38	60.3	1119	4	US-10-144-678A-178	Sequence 378, App
139	38	60.3	394	3	US-10-212-679-336	Sequence 336, App	212	38	60.3	1119	4	US-10-294-025-378	Sequence 378, App
140	38	60.3	394	4	US-10-212-679-336	Sequence 336, App	213	38	60.3	2894	3	US-09-941-611-23	Sequence 23, App
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712	37	58.7	1520	4	US-10-142-885-333	Sequence 333	App	785	37	58.7	1661	4	US-10-137-871-223	Sequence 223	App
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ALIGNMENTS

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; Sequence 9, Application US/10484063
; Publication No. US20050048467A1
; GENERAL INFORMATION:
; APPLICANT: SASTRY, K. JAGANNADHA
; APPLICANT: TORTOLERO-LUNA, GUILLERMO
; APPLICANT: FOLLEN, MICHELE
; TITLE OF INVENTION: METHODS AND COMPOSITIONS RELATING TO HPV-ASSOCIATED
; FILE REFERENCE: UTSC:560US
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; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: Patent In Ver. 2.1
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; LENGTH: 16
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-484-063-9

Query Match 100.0%; Score 63; DB 5; Length 16;
Best Local Similarity 100.0%; Pred. No. 0.052;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 WTGRCSGCC 9
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RESULT 2
US-10-938-249-513
; Sequence 513, Application US/10938249
; Publication No. US20050037969A1
; GENERAL INFORMATION:
; APPLICANT: LU, Peter S.
; APPLICANT: Rabinowitz, Joshua D.
; APPLICANT: Schweitzer, Johannes
; APPLICANT: Arbor Vita Corporation
; TITLE OF INVENTION: Molecular Interactions in Hematopoietic
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; TITLE OF INVENTION: Cells
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; CURRENT APPLICATION NUMBER: US/10/938,249
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; PRIOR APPLICATION NUMBER: US 60/162,498
; PRIOR FILING DATE: 1999-10-29
; PRIOR APPLICATION NUMBER: US 60/170,453
; PRIOR FILING DATE: 1999-12-13
; PRIOR APPLICATION NUMBER: US 60/176,195
; PRIOR FILING DATE: 2000-01-14
; PRIOR APPLICATION NUMBER: US 60/182,296
; PRIOR FILING DATE: 2000-02-14
; PRIOR APPLICATION NUMBER: US 60/196,267
; PRIOR FILING DATE: 2000-04-11
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 543
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 513
; LENGTH: 20
; TYPE: PRT
; ORGANISM: Artificial Sequence
; OTHER INFORMATION: HPV16 E6 C-terminal
US-10-938-249-513
```

```
Query Match 100.0%; Score 63; DB 5; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.062;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 WTGRCSGCC 9
Db 1 WTGRCSGCC 9

RESULT 3
US-10-476-570-44
; Sequence 44, Application US/10476570
; Publication No. US20040170644A1
; GENERAL INFORMATION:
; APPLICANT: COMMISSARIAT A L'ENERGIE ATOMIQUE
; APPLICANT: INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE
; APPLICANT: MAILLER, Bernard
; APPLICANT: BOURGAULT-VILLADA, Isabelle
; APPLICANT: POUVILLE-MORATILLE, Sandra
; TITLE OF INVENTION: Mixture of peptides derived from E6 and/or E7
; FILE REFERENCE: 45636-5071-US
; CURRENT APPLICATION NUMBER: US/10/476,570
; CURRENT FILING DATE: 2003-11-04
; PRIOR APPLICATION NUMBER: PCT/FR02/01533
; PRIOR FILING DATE: 2002-05-03
; PRIOR APPLICATION NUMBER: FR 01 05980
; PRIOR FILING DATE: 2001-05-04
; NUMBER OF SEQ ID NOS: 63
; SOFTWARE: Patent In Ver. 2.1
; SEQ ID NO 44
; LENGTH: 24
; TYPE: PRT
; ORGANISM: artificial sequence
; OTHER INFORMATION: Description of the artificial sequence: peptide E6 135-158
US-10-476-570-44
```


Query Match 100.0%; Score 63; DB 4; Length 24;
Best Local Similarity 100.0%; Pred. No. 0.071;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 WTGRMSCC 9
DB 5 WTGRMSCC 13

RESULT 4

US-11-021-949-5
; Sequence 5, Application US/11021949
; Publication No. US20050142541A1
; GENERAL INFORMATION:
; APPLICANT: LU, PETER
; APPLICANT: GARMAN, JONATHAN DAVID
; APPLICANT: BELMARES, MICHAEL P.
; APPLICANT: DIAZ-SARIENTO, CAMORRO SONOZA
; APPLICANT: SCHWEIZER, JOHANNES
; TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
; TITLE OF INVENTION: AND METHODS OF THEIR USE
; FILE REFERENCE: VITA-012
; CURRENT APPLICATION NUMBER: US/11/021,949
; CURRENT FILING DATE: 2004-12-23
; PRIOR APPLICATION NUMBER: 60/532,373
; PRIOR FILING DATE: 2003-12-23
; NUMBER OF SEQ ID NOS: 361
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 5
; LENGTH: 24
; TYPE: PRT
; ORGANISM: human papilloma virus (HPV)
US-11-021-949-5

Query Match 100.0%; Score 63; DB 6; Length 24;
Best Local Similarity 100.0%; Pred. No. 0.071;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 WTGRMSCC 9
DB 16 WTGRMSCC 24

RESULT 5

US-10-177-390-6
; Sequence 6, Application US/10177390
; Publication No. US20030143743A1
; GENERAL INFORMATION:
; APPLICANT: Schuler, Gerold
; APPLICANT: N.V. Antwerp Innovatiecentrum
; TITLE OF INVENTION: Improved Transfection of Eucaryotic Cells with Linear
; FILE REFERENCE: 021505wo/JH/ml
; CURRENT APPLICATION NUMBER: US/10/177,390
; CURRENT FILING DATE: 2002-06-20
; NUMBER OF SEQ ID NOS: 34
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 6
; LENGTH: 151
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-10-177-390-6

Query Match 100.0%; Score 63; DB 4; Length 151;
Best Local Similarity 100.0%; Pred. No. 0.3;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 WTGRMSCC 9
DB 132 WTGRMSCC 140

RESULT 6

US-10-484-063-20
; Sequence 20, Application US/10484063
; Publication No. US20050048467A1
; GENERAL INFORMATION:
; APPLICANT: SASTRY, K. JAGANNADHA
; APPLICANT: TORTOLERO-LUNA, GUILLERMO
; APPLICANT: FOLLEN, MICHELE
; TITLE OF INVENTION: METHODS AND COMPOSITIONS RELATING TO HPV-ASSOCIATED
; TITLE OF INVENTION: PRE-CANCEROUS AND CANCEROUS GROWTHS, INCLUDING CIN
; FILE REFERENCE: UTSC:560US
; CURRENT APPLICATION NUMBER: US/10/484,063
; CURRENT FILING DATE: 2004-01-16
; PRIOR APPLICATION NUMBER: PCT/US02/23198
; PRIOR FILING DATE: 2002-07-19
; PRIOR APPLICATION NUMBER: 60/306,809
; PRIOR FILING DATE: 2001-07-20
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 20
; LENGTH: 151
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-484-063-20

Query Match 100.0%; Score 63; DB 5; Length 151;
Best Local Similarity 100.0%; Pred. No. 0.3;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 WTGRMSCC 9
DB 132 WTGRMSCC 140

RESULT 7

US-10-484-063-27
; Sequence 27, Application US/10484063
; Publication No. US20050048467A1
; GENERAL INFORMATION:
; APPLICANT: SASTRY, K. JAGANNADHA
; APPLICANT: TORTOLERO-LUNA, GUILLERMO
; APPLICANT: FOLLEN, MICHELE
; TITLE OF INVENTION: METHODS AND COMPOSITIONS RELATING TO HPV-ASSOCIATED
; TITLE OF INVENTION: PRE-CANCEROUS AND CANCEROUS GROWTHS, INCLUDING CIN
; FILE REFERENCE: UTSC:560US
; CURRENT APPLICATION NUMBER: US/10/484,063
; CURRENT FILING DATE: 2004-01-16
; PRIOR APPLICATION NUMBER: PCT/US02/23198
; PRIOR FILING DATE: 2002-07-19
; PRIOR APPLICATION NUMBER: 60/306,809
; PRIOR FILING DATE: 2001-07-20
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 27
; LENGTH: 151
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-10-484-063-27

Query Match 100.0%; Score 63; DB 5; Length 151;
Best Local Similarity 100.0%; Pred. No. 0.3;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 WTGRMSCC 9
DB 132 WTGRMSCC 140

RESULT 8

US-10-858-384-2
; Sequence 2, Application US/10858384
; Publication No. US2005003025A1
; GENERAL INFORMATION:

APPLICANT: CHOPPIN, JEANNINE
APPLICANT: BOURGAULT VILLADA, ISABELLE
APPLICANT: GUILLET, JEAN-GERARD
APPLICANT: CONNAN, FRANCES
APPLICANT: FERRIES, ESTELLE
TITLE OF INVENTION: POLYPEPTIDIC PROTEIN FRAGMENTS OF THE E6 PROTEIN
OR E7 OF HPV, THEIR PRODUCTION AND THEIR USE
TITLE OF INVENTION: PARTICULARLY IN VACCINATION
FILE REFERENCE: 0508-1037-1
CURRENT APPLICATION NUMBER: US/10/858,384
CURRENT FILING DATE: 2004-06-02
PRIOR APPLICATION NUMBER: FR 9907012
PRIOR FILING DATE: 1999-06-03
NUMBER OF SEQ ID NOS: 24
SOFTWARE: PatentIn Ver. 3.2
SEQ ID NO 2
LENGTH: 158
TYPE: PRT
ORGANISM: Human Papillomavirus
US-10-858-384-2

Query Match 100.0%; Score 63; DB 5; Length 158;
Best Local Similarity 100.0%; Pred. No. 0.31;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 WTGRMCC 9
DB 139 WTGRMCC 147

RESULT 9
US-10-367-057-16
Sequence 16, Application US/10367057
Publication No. US20050100554A1
GENERAL INFORMATION:
APPLICANT: Cuthill, Scott;
APPLICANT: Jackson, Amanda;
APPLICANT: Lewin, David A.;
APPLICANT: Ooi, Chean Eng
TITLE OF INVENTION: Complexes and Methods of Using Same
FILE REFERENCE: 21402-559
CURRENT APPLICATION NUMBER: US/10/367,057
CURRENT FILING DATE: 2003-02-14
PRIOR APPLICATION NUMBER: 60/256,911
PRIOR FILING DATE: 2002-02-14
NUMBER OF SEQ ID NOS: 198
SOFTWARE: CuraSeqList version 0.1
SEQ ID NO 16
LENGTH: 158
TYPE: PRT
ORGANISM: Homo sapiens
US-10-367-057-16

Query Match 100.0%; Score 63; DB 5; Length 158;
Best Local Similarity 100.0%; Pred. No. 0.31;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 WTGRMCC 9
DB 139 WTGRMCC 147

RESULT 10
US-11-021-949-13
Sequence 13, Application US/11021949
Publication No. US20050142541A1
GENERAL INFORMATION:
APPLICANT: LU, PETER
APPLICANT: GARMAN, JONATHAN DAVID
APPLICANT: BELMARES, MICHAEL P.
APPLICANT: DIAZ-SARMIENTO, CHAMORRO SOMOZA
APPLICANT: SCHWEIZER, JOHANNES
TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV

TITLE OF INVENTION: AND METHODS OF THEIR USE
FILE REFERENCE: VITA-012
CURRENT APPLICATION NUMBER: US/11/021,949
CURRENT FILING DATE: 2004-12-23
PRIOR APPLICATION NUMBER: 60/532,373
PRIOR FILING DATE: 2003-12-23
NUMBER OF SEQ ID NOS: 361
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 13
LENGTH: 158
TYPE: PRT
ORGANISM: human papilloma virus (HPV)
US-11-021-949-13

Query Match 100.0%; Score 63; DB 6; Length 158;
Best Local Similarity 100.0%; Pred. No. 0.31;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 WTGRMCC 9
DB 139 WTGRMCC 147

RESULT 11
US-10-472-724-2
Sequence 2, Application US/10472724
Publication No. US20040171806A1
GENERAL INFORMATION:
APPLICANT: Cid-Arregui, Angel
APPLICANT: Zur Hausen, Harald
TITLE OF INVENTION: Modified HPV E6 and E7 genes and proteins useful for vaccination
FILE REFERENCE: 4121-154
CURRENT APPLICATION NUMBER: US/10/472,724
CURRENT FILING DATE: 2003-09-17
PRIOR APPLICATION NUMBER: PCT/EP02/03271
PRIOR FILING DATE: 2002-03-22
PRIOR APPLICATION NUMBER: EP 01107271.7
PRIOR FILING DATE: 2001-03-23
NUMBER OF SEQ ID NOS: 27
SOFTWARE: PatentIn version 3.2
SEQ ID NO 2
LENGTH: 171
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic Construct
US-10-472-724-2

Query Match 100.0%; Score 63; DB 4; Length 171;
Best Local Similarity 100.0%; Pred. No. 0.33;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 WTGRMCC 9
DB 144 WTGRMCC 152

RESULT 12
US-11-072-288-1
Sequence 1, Application US/11072288
Publication No. US20050159386A1
GENERAL INFORMATION:
APPLICANT: KIENY, Marie-Paule
APPLICANT: BALLOU, Jean-Marc
APPLICANT: BIZOUANE, Nadine
TITLE OF INVENTION: ANTITUMORAL COMPOSITION BASED ON IMMUNOGENIC
POLYPEPTIDE WITH MODIFIED CELL LOCATION
FILE REFERENCE: 01753-122
CURRENT APPLICATION NUMBER: US/11/072,288
CURRENT FILING DATE: 2005-03-07
PRIOR APPLICATION NUMBER: US/09/462,993
PRIOR FILING DATE: 2000-04-17
PRIOR APPLICATION NUMBER: PCT/FR98/01576

PRIOR FILING DATE: 1998-07-17
PRIOR APPLICATION NUMBER: FR 97/09152
PRIOR FILING DATE: 1997-07-18
NUMBER OF SEQ ID NOS: 23
SOFTWARE: PatentIn Ver. 2.2
SEQ ID NO 1
LENGTH: 243
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Derived from
OTHER INFORMATION: human papillomavirus, strain HPV-16, E6 protein
OTHER INFORMATION: fused F protein signals, clone E6*TMF.
US-11-072-288-1

Query Match 100.0%; Score 63; DB 6; Length 243;
Best Local Similarity 100.0%; Pred. No. 0.43; Indels 0; Gaps 0;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 WTGRMSCC 9
Db 162 WTGRMSCC 170

RESULT 13
US-09-367-309A-1
Sequence 1, Application US/09367309A
Publication No. US20020081329A1
GENERAL INFORMATION:
APPLICANT: MACFARLAN, RODERICK I.
APPLICANT: MALLIAROS, JIM
TITLE OF INVENTION: CHELATING IMMUNOSTIMULATING COMPLEXES
FILE REFERENCE: 017227/0149
CURRENT APPLICATION NUMBER: US/09/367,309A
CURRENT FILING DATE: 1999-08-11
PRIOR APPLICATION NUMBER: PCT/AU98/00080
PRIOR FILING DATE: 1998-02-13
PRIOR APPLICATION NUMBER: AU PO 5178
PRIOR FILING DATE: 1997-02-19
NUMBER OF SEQ ID NOS: 6
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 1
LENGTH: 266
TYPE: PRT
ORGANISM: Human papillomavirus type 16
US-09-367-309A-1

Query Match 100.0%; Score 63; DB 3; Length 266;
Best Local Similarity 100.0%; Pred. No. 0.46; Indels 0; Gaps 0;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 WTGRMSCC 9
Db 139 WTGRMSCC 147

RESULT 14
US-10-000-903-4
Sequence 4, Application US/10000903
Publication No. US20020182221A1
GENERAL INFORMATION:
APPLICANT: Bruck, Claudine
APPLICANT: Cabezon Silva, Teresa
APPLICANT: Delisse, Anne-Marie Eva Bernande
APPLICANT: Gerard, Catherine Marie Ghislaine
APPLICANT: Lombardo-Bencheikh, Angela
TITLE OF INVENTION: Vaccine
FILE REFERENCE: B45107
CURRENT APPLICATION NUMBER: US/10/000,903
CURRENT FILING DATE: 2001-10-01
PRIOR APPLICATION NUMBER: PCT/EP98/05285
PRIOR FILING DATE: 1998-08-17
PRIOR APPLICATION NUMBER: GB 9717953.5

PRIOR FILING DATE: 1997-08-22
NUMBER OF SEQ ID NOS: 23
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 4
LENGTH: 273
TYPE: PRT
ORGANISM: Homo sapien
US-10-000-903-4

Query Match 100.0%; Score 63; DB 4; Length 273;
Best Local Similarity 100.0%; Pred. No. 0.47; Indels 0; Gaps 0;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 WTGRMSCC 9
Db 245 WTGRMSCC 253

RESULT 15
US-10-899-771-4
Sequence 4, Application US/10899771
Publication No. US20050031638A1
GENERAL INFORMATION:
APPLICANT: Dalemans, Wilfried L.J.
APPLICANT: Gerard, Catherine Marie Ghislaine
TITLE OF INVENTION: Compositions Comprising Human Papilloma Virus Proteins
TITLE OF INVENTION: and Fusion Proteins Adjuvanted with a CpG Oligonucleotide
FILE REFERENCE: B45124
CURRENT APPLICATION NUMBER: US/10/899,771
CURRENT FILING DATE: 2004-07-27
PRIOR APPLICATION NUMBER: US/09/581,976
PRIOR FILING DATE: 2000-06-20
PRIOR APPLICATION NUMBER: PCT/EP98/08563
PRIOR FILING DATE: 1998-12-18
PRIOR APPLICATION NUMBER: GB 9727262.9
PRIOR FILING DATE: 1997-12-24
NUMBER OF SEQ ID NOS: 28
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 4
LENGTH: 273
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Chimeric protein (protein D from Haemophilus
OTHER INFORMATION: Influenzae B and E6 from Human papilloma virus type
OTHER INFORMATION: 16)
US-10-899-771-4

Query Match 100.0%; Score 63; DB 5; Length 273;
Best Local Similarity 100.0%; Pred. No. 0.47; Indels 0; Gaps 0;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 WTGRMSCC 9
Db 245 WTGRMSCC 253

RESULT 16
US-10-000-903-10
Sequence 10, Application US/10000903
Publication No. US20020182221A1
GENERAL INFORMATION:
APPLICANT: Bruck, Claudine
APPLICANT: Cabezon Silva, Teresa
APPLICANT: Delisse, Anne-Marie Eva Bernande
APPLICANT: Gerard, Catherine Marie Ghislaine
APPLICANT: Lombardo-Bencheikh, Angela
TITLE OF INVENTION: Vaccine
FILE REFERENCE: B45107
CURRENT APPLICATION NUMBER: US/10/000,903
CURRENT FILING DATE: 2001-10-01
PRIOR APPLICATION NUMBER: PCT/EP98/05285
PRIOR FILING DATE: 1998-08-17

PRIOR APPLICATION NUMBER: GB 9717953.5
PRIOR FILING DATE: 1997-08-22
NUMBER OF SEQ ID NOS: 23
SOFTWARE: FaSTSeq for Windows Version 3.0
SEQ ID NO 10
LENGTH: 292
TYPE: PRT
ORGANISM: Homo sapien
US-10-000-903-10

Query Match 100.0%; Score 63; DB 4; Length 292;
Best Local Similarity 100.0%; Pred. No. 0.5;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 WTGRCSGCC 9
|||||
Db 264 WTGRCSGCC 272

RESULT 17
US-10-899-771-10
Sequence 10, Application US/10899771
Publication No. US20050031638A1
GENERAL INFORMATION:
APPLICANT: Dalemans, Wilfried L.J.
APPLICANT: Gerard, Catherine Marie Ghislaine
TITLE OF INVENTION: Compositions Comprising Human Papilloma Virus Proteins
TITLE OF INVENTION: and Fusion Proteins Adjuvanted with a CpG Oligonucleotide
FILE REFERENCE: B45124
CURRENT APPLICATION NUMBER: US/10/899,771
CURRENT FILING DATE: 2004-07-27
PRIOR APPLICATION NUMBER: US/09/581,976
PRIOR FILING DATE: 2000-06-20
PRIOR APPLICATION NUMBER: PCT/EP98/08563
PRIOR FILING DATE: 1998-12-18
PRIOR APPLICATION NUMBER: GB 9727262.9
PRIOR FILING DATE: 1997-12-24
NUMBER OF SEQ ID NOS: 28
SOFTWARE: FaSTSeq for Windows Version 3.0
SEQ ID NO 10
LENGTH: 292
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Chimeric protein (Clyta from Streptococcus
OTHER INFORMATION: pneumoniae and E6 from Human papilloma virus type
OTHER INFORMATION: 16)
US-10-899-771-10

Query Match 100.0%; Score 63; DB 5; Length 292;
Best Local Similarity 100.0%; Pred. No. 0.5;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 WTGRCSGCC 9
|||||
Db 264 WTGRCSGCC 272

RESULT 18
US-10-000-903-6
Sequence 6, Application US/10000903
Publication No. US20020182221A1
GENERAL INFORMATION:
APPLICANT: Bruck, Claudine
APPLICANT: Cabezon Silva, Teresa
APPLICANT: Delisse, Anne-Marie Eva Bernande
APPLICANT: Gerard, Catherine Marie Ghislaine
APPLICANT: Lombardo-Bencheikh, Angela
TITLE OF INVENTION: Vaccine
FILE REFERENCE: B45107
CURRENT APPLICATION NUMBER: US/10/000,903
CURRENT FILING DATE: 2001-10-01
PRIOR APPLICATION NUMBER: PCT/EP98/05285

PRIOR FILING DATE: 1998-08-17
PRIOR APPLICATION NUMBER: GB 9717953.5
PRIOR FILING DATE: 1997-08-22
NUMBER OF SEQ ID NOS: 23
SOFTWARE: FaSTSeq for Windows Version 3.0
SEQ ID NO 6
LENGTH: 371
TYPE: PRT
ORGANISM: Homo sapien
US-10-000-903-6

Query Match 100.0%; Score 63; DB 4; Length 371;
Best Local Similarity 100.0%; Pred. No. 0.6;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 WTGRCSGCC 9
|||||
Db 245 WTGRCSGCC 253

RESULT 19
US-10-899-771-6
Sequence 6, Application US/10899771
Publication No. US20050031638A1
GENERAL INFORMATION:
APPLICANT: Dalemans, Wilfried L.J.
APPLICANT: Gerard, Catherine Marie Ghislaine
TITLE OF INVENTION: Compositions Comprising Human Papilloma Virus Proteins
TITLE OF INVENTION: and Fusion Proteins Adjuvanted with a CpG Oligonucleotide
FILE REFERENCE: B45124
CURRENT APPLICATION NUMBER: US/10/899,771
CURRENT FILING DATE: 2004-07-27
PRIOR APPLICATION NUMBER: US/09/581,976
PRIOR FILING DATE: 2000-06-20
PRIOR APPLICATION NUMBER: PCT/EP98/08563
PRIOR FILING DATE: 1998-12-18
PRIOR APPLICATION NUMBER: GB 9727262.9
PRIOR FILING DATE: 1997-12-24
NUMBER OF SEQ ID NOS: 28
SOFTWARE: FaSTSeq for Windows Version 3.0
SEQ ID NO 6
LENGTH: 371
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Chimeric protein (protein D from Haemophilus
OTHER INFORMATION: influenzae B and E6E7 fusion from Human papilloma
OTHER INFORMATION: virus type 16)
US-10-899-771-6

Query Match 100.0%; Score 63; DB 5; Length 371;
Best Local Similarity 100.0%; Pred. No. 0.6;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 WTGRCSGCC 9
|||||
Db 245 WTGRCSGCC 253

RESULT 20
US-10-000-903-14
Sequence 14, Application US/10000903
Publication No. US20020182221A1
GENERAL INFORMATION:
APPLICANT: Bruck, Claudine
APPLICANT: Cabezon Silva, Teresa
APPLICANT: Delisse, Anne-Marie Eva Bernande
APPLICANT: Gerard, Catherine Marie Ghislaine
APPLICANT: Lombardo-Bencheikh, Angela
TITLE OF INVENTION: Vaccine
FILE REFERENCE: B45107
CURRENT APPLICATION NUMBER: US/10/000,903
CURRENT FILING DATE: 2001-10-01

PRIOR APPLICATION NUMBER: PCT/EP98/05285
PRIOR FILING DATE: 1998-08-17
PRIOR APPLICATION NUMBER: GB 9717953.5
PRIOR FILING DATE: 1997-08-22
NUMBER OF SEQ ID NOS: 23
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 14
LENGTH: 390
TYPE: PRT
ORGANISM: Homo sapien
US-10-000-903-14

Query Match 100.0%; Score 63; DB 4; Length 390;
Best Local Similarity 100.0%; Pred. No. 0.62;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 WTGRMSCC 9
DB 264 WTGRMSCC 272

RESULT 21
US-10-899-771-14
Sequence 14, Application US/10899771
Publication No. US20050031638A1
GENERAL INFORMATION:
APPLICANT: Galemans, Wilfried L.J.
TITLE OF INVENTION: Compositions comprising Human Papilloma Virus Proteins
TITLE OF INVENTION: and Fusion Proteins Advantaged with a Cpg Oligonucleotide
FILE REFERENCE: B45124
CURRENT APPLICATION NUMBER: US/10/899,771
CURRENT FILING DATE: 2004-07-27
PRIOR APPLICATION NUMBER: US/09/581,976
PRIOR FILING DATE: 2000-06-20
PRIOR APPLICATION NUMBER: PCT/EP98/08563
PRIOR FILING DATE: 1998-12-18
PRIOR APPLICATION NUMBER: GB 9727262.9
PRIOR FILING DATE: 1997-12-24
NUMBER OF SEQ ID NOS: 28
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 14
LENGTH: 390
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Chimeraic protein (Clyta from Streptococcus
OTHER INFORMATION: pneumoniae and B6E7 fusion from Human papilloma
OTHER INFORMATION: virus type 16)
US-10-899-771-14

Query Match 100.0%; Score 63; DB 5; Length 390;
Best Local Similarity 100.0%; Pred. No. 0.62;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 WTGRMSCC 9
DB 264 WTGRMSCC 272

RESULT 22
US-11-021-949-14
Sequence 14, Application US/11021949
Publication No. US2005004241A1
GENERAL INFORMATION:
APPLICANT: LU, PETER
APPLICANT: GARMAN, JONATHAN DAVID
APPLICANT: BELMARES, MICHAEL P.
APPLICANT: DIAZ-SARMIENTO, CHAMORRO SOMOZA
APPLICANT: SCHWEIZER, JOHANNES
TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
TITLE OF INVENTION: AND METHODS OF THEIR USE
FILE REFERENCE: VITA-012

CURRENT APPLICATION NUMBER: US/11/021,949
CURRENT FILING DATE: 2004-12-23
PRIOR APPLICATION NUMBER: 60/532,373
PRIOR FILING DATE: 2003-12-23
NUMBER OF SEQ ID NOS: 361
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 14
LENGTH: 149
TYPE: PRT
ORGANISM: human papilloma virus (HPV)
US-11-021-949-14

Query Match 85.7%; Score 54; DB 6; Length 149;
Best Local Similarity 100.0%; Pred. No. 5;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 WTGRMSCC 8
DB 132 WTGRMSCC 139

RESULT 23
US-10-484-063-10
Sequence 10, Application US/10484063
Publication No. US20050048467A1
GENERAL INFORMATION:
APPLICANT: SASTRY, K. JAGANNADHA
APPLICANT: TORTOLERO-LUNA, GUILTERMO
APPLICANT: FOLLEN, MICHELE
TITLE OF INVENTION: METHODS AND COMPOSITIONS RELATING TO HPV-ASSOCIATED
TITLE OF INVENTION: PRE-CANCEROUS AND CANCEROUS GROWTHS, INCLUDING CIN
FILE REFERENCE: UTSC:560US
CURRENT APPLICATION NUMBER: US/10/484,063
CURRENT FILING DATE: 2004-01-16
PRIOR APPLICATION NUMBER: PCT/US02/23198
PRIOR FILING DATE: 2002-07-19
PRIOR APPLICATION NUMBER: 60/306,809
PRIOR FILING DATE: 2001-07-20
NUMBER OF SEQ ID NOS: 27
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 10
LENGTH: 10
TYPE: PRT
ORGANISM: Human papillomavirus
US-10-484-063-10

Query Match 74.6%; Score 47; DB 5; Length 10;
Best Local Similarity 100.0%; Pred. No. 5.6;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3 GRCSMCC 9
DB 1 GRCSMCC 7

RESULT 24
US-10-938-249-515
Sequence 515, Application US/10938249
Publication No. US20050037969A1
GENERAL INFORMATION:
APPLICANT: Lu, Peter S.
APPLICANT: Rabinowitz, Joshua D.
APPLICANT: Schweizer, Johannes
APPLICANT: Arbor Vita Corporation
TITLE OF INVENTION: Molecular Interactions in Hematopoietic
TITLE OF INVENTION: Cells
FILE REFERENCE: 020054-001130US
CURRENT APPLICATION NUMBER: US/10/938,249
CURRENT FILING DATE: 2004-09-10
PRIOR APPLICATION NUMBER: US/09/724,553
PRIOR FILING DATE: 2000-11-28
PRIOR APPLICATION NUMBER: US 60/134,114
PRIOR FILING DATE: 1999-05-14

;; PRIOR APPLICATION NUMBER: US 60/134,117
;; PRIOR FILING DATE: 1999-05-14
;; PRIOR APPLICATION NUMBER: US 60/134,118
;; PRIOR FILING DATE: 1999-05-14
;; PRIOR APPLICATION NUMBER: US 60/160,860
;; PRIOR FILING DATE: 1999-10-21
;; PRIOR APPLICATION NUMBER: US 60/162,498
;; PRIOR FILING DATE: 1999-10-29
;; PRIOR APPLICATION NUMBER: US 60/170,453
;; PRIOR FILING DATE: 1999-12-13
;; PRIOR APPLICATION NUMBER: US 60/176,195
;; PRIOR FILING DATE: 2000-01-14
;; PRIOR APPLICATION NUMBER: US 60/182,296
;; PRIOR FILING DATE: 2000-02-14
;; PRIOR APPLICATION NUMBER: US 60/196,267
;; PRIOR FILING DATE: 2000-04-11
;; Remaining Prior Application data removed - See File Wrapper or PALM.
;; NUMBER OF SEQ ID NOS: 543
;; SOFTWARE: FastSeq for Windows Version 3.0
;; SEQ ID NO 515
;; LENGTH: 20
;; TYPE: PRT
;; ORGANISM: Artificial Sequence
;; FEATURE:
;; OTHER INFORMATION: HPV31 E6 C-terminal
US-10-938-249-515

Query Match 74.6%; Score 47; DB 5; Length 20;
Best Local Similarity 75.0%; Pred. No. 9.6;
Matches 6; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 1 WTGRCSMC 8
Db 3 WTGRCTAC 10

RESULT 25
US-10-097-065-441
;; Sequence 441, Application US/10097065
;; Publication No. US20030055236A1
;; GENERAL INFORMATION:
;; APPLICANT: Moore, Paul A. et al.
;; TITLE OF INVENTION: 110 Human Secreted Proteins
;; FILE REFERENCE: P2021P1
;; CURRENT APPLICATION NUMBER: US/10/097,065
;; PRIOR FILING DATE: 2002-03-14
;; PRIOR APPLICATION NUMBER: PCT/US98/27059
;; PRIOR FILING DATE: 1998-12-17
;; PRIOR APPLICATION NUMBER: 60/070,923
;; PRIOR FILING DATE: 1997-12-18
;; PRIOR APPLICATION NUMBER: 60/068,007
;; PRIOR FILING DATE: 1997-12-18
;; PRIOR APPLICATION NUMBER: 60/068,057
;; PRIOR FILING DATE: 1997-12-18
;; PRIOR APPLICATION NUMBER: 60/068,006
;; PRIOR FILING DATE: 1997-12-18
;; PRIOR APPLICATION NUMBER: 60/068,369
;; PRIOR FILING DATE: 1997-12-19
;; PRIOR APPLICATION NUMBER: 60/068,367
;; PRIOR FILING DATE: 1997-12-19
;; PRIOR APPLICATION NUMBER: 60/068,368
;; PRIOR FILING DATE: 1997-12-19
;; PRIOR APPLICATION NUMBER: 60/068,169
;; PRIOR FILING DATE: 1997-12-19
;; PRIOR APPLICATION NUMBER: 60/068,053
;; PRIOR FILING DATE: 1997-12-18
;; PRIOR APPLICATION NUMBER: 60/068,064
;; PRIOR FILING DATE: 1997-12-18
;; PRIOR APPLICATION NUMBER: 60/068,054
;; PRIOR FILING DATE: 1997-12-18
;; PRIOR APPLICATION NUMBER: 60/068,008
;; PRIOR FILING DATE: 1997-12-18
;; PRIOR APPLICATION NUMBER: 60/068,365

;; PRIOR FILING DATE: 1997-12-19
;; NUMBER OF SEQ ID NOS: 672
;; SOFTWARE: PatentIn Ver. 2.0
;; SEQ ID NO 441
;; LENGTH: 27
;; TYPE: PRT
;; ORGANISM: Homo sapiens
US-10-097-065-441

Query Match 74.6%; Score 47; DB 4; Length 27;
Best Local Similarity 66.7%; Pred. No. 12;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Qy 1 WTGRCSMC 9
Db 11 WGPCLSCC 19

RESULT 26
US-10-372-876-441
;; Sequence 441, Application US/10372876
;; Publication No. US20030204071A1
;; GENERAL INFORMATION:
;; APPLICANT: Moore, Paul A. et al.
;; TITLE OF INVENTION: 110 Human Secreted Proteins
;; FILE REFERENCE: P2021P1
;; CURRENT APPLICATION NUMBER: US/10/372,876
;; PRIOR FILING DATE: 2003-02-26
;; PRIOR APPLICATION NUMBER: 09/334,595
;; PRIOR FILING DATE: 1999-06-17
;; PRIOR APPLICATION NUMBER: PCT/US98/27059
;; PRIOR FILING DATE: 1998-12-17
;; PRIOR APPLICATION NUMBER: 60/070,923
;; PRIOR FILING DATE: 1997-12-18
;; PRIOR APPLICATION NUMBER: 60/068,007
;; PRIOR FILING DATE: 1997-12-18
;; PRIOR APPLICATION NUMBER: 60/068,057
;; PRIOR FILING DATE: 1997-12-18
;; PRIOR APPLICATION NUMBER: 60/068,006
;; PRIOR FILING DATE: 1997-12-18
;; PRIOR APPLICATION NUMBER: 60/068,369
;; PRIOR FILING DATE: 1997-12-19
;; PRIOR APPLICATION NUMBER: 60/068,367
;; PRIOR FILING DATE: 1997-12-19
;; PRIOR APPLICATION NUMBER: 60/068,368
;; PRIOR FILING DATE: 1997-12-19
;; PRIOR APPLICATION NUMBER: 60/068,169
;; PRIOR FILING DATE: 1997-12-19
;; Remaining Prior Application data removed - See File Wrapper or PALM.
;; NUMBER OF SEQ ID NOS: 672
;; SOFTWARE: PatentIn Ver. 2.0
;; SEQ ID NO 441
;; LENGTH: 27
;; TYPE: PRT
;; ORGANISM: Homo sapiens
US-10-372-876-441

Query Match 74.6%; Score 47; DB 4; Length 27;
Best Local Similarity 66.7%; Pred. No. 12;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Qy 1 WTGRCSMC 9
Db 11 WGPCLSCC 19

RESULT 27
US-10-097-065-437
;; Sequence 437, Application US/10097065
;; Publication No. US20030055236A1
;; GENERAL INFORMATION:
;; APPLICANT: Moore, Paul A. et al.
;; TITLE OF INVENTION: 110 Human Secreted Proteins

FILE REFERENCE: P2021P1
CURRENT APPLICATION NUMBER: US/10/097,065
CURRENT FILING DATE: 2002-03-14
PRIOR APPLICATION NUMBER: PCT/US98/27059
PRIOR FILING DATE: 1998-12-17
PRIOR APPLICATION NUMBER: 60/070,923
PRIOR FILING DATE: 1997-12-18
PRIOR APPLICATION NUMBER: 60/068,007
PRIOR FILING DATE: 1997-12-18
PRIOR APPLICATION NUMBER: 60/068,057
PRIOR FILING DATE: 1997-12-18
PRIOR APPLICATION NUMBER: 60/068,006
PRIOR FILING DATE: 1997-12-18
PRIOR APPLICATION NUMBER: 60/068,369
PRIOR FILING DATE: 1997-12-19
PRIOR APPLICATION NUMBER: 60/068,367
PRIOR FILING DATE: 1997-12-19
PRIOR APPLICATION NUMBER: 60/068,368
PRIOR FILING DATE: 1997-12-19
PRIOR APPLICATION NUMBER: 60/068,169
PRIOR FILING DATE: 1997-12-19
PRIOR APPLICATION NUMBER: 60/068,053
PRIOR FILING DATE: 1997-12-18
PRIOR APPLICATION NUMBER: 60/068,064
PRIOR FILING DATE: 1997-12-18
PRIOR APPLICATION NUMBER: 60/068,054
PRIOR FILING DATE: 1997-12-18
PRIOR APPLICATION NUMBER: 60/068,008
PRIOR FILING DATE: 1997-12-18
PRIOR APPLICATION NUMBER: 60/068,365
PRIOR FILING DATE: 1997-12-19
NUMBER OF SEQ ID NOS: 672
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 437
LENGTH: 135
TYPE: PRT
ORGANISM: Homo sapiens
US-10-097-065-437

Query Match 74.6%; Score 47; DB 4; Length 135;
Best Local Similarity 66.7%; Pred. No. 42;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 WTGRMCC 9
Db 111 WGPCLSCC 119

RESULT 28
US-10-372-876-437
Sequence 437, Application US/10372876
Publication No. US20030204071A1
GENERAL INFORMATION:
APPLICANT: Moore, Paul A. et al.
TITLE OF INVENTION: 110 Human Secreted Proteins
FILE REFERENCE: P2021P1
CURRENT APPLICATION NUMBER: US/10/372,876
CURRENT FILING DATE: 2003-07-26
PRIOR APPLICATION NUMBER: 09/334,595
PRIOR FILING DATE: 1999-06-17
PRIOR APPLICATION NUMBER: PCT/US98/27059
PRIOR FILING DATE: 1998-12-17
PRIOR APPLICATION NUMBER: 60/070,923
PRIOR FILING DATE: 1997-12-18
PRIOR APPLICATION NUMBER: 60/068,007
PRIOR FILING DATE: 1997-12-18
PRIOR APPLICATION NUMBER: 60/068,057
PRIOR FILING DATE: 1997-12-18
PRIOR APPLICATION NUMBER: 60/068,006
PRIOR FILING DATE: 1997-12-18
PRIOR APPLICATION NUMBER: 60/068,369
PRIOR FILING DATE: 1997-12-19
PRIOR APPLICATION NUMBER: 60/068,367

PRIOR FILING DATE: 1997-12-19
PRIOR APPLICATION NUMBER: 60/068,368
PRIOR FILING DATE: 1997-12-19
PRIOR APPLICATION NUMBER: 60/068,169
PRIOR FILING DATE: 1997-12-19
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 672
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 437
LENGTH: 135
TYPE: PRT
ORGANISM: Homo sapiens
US-10-372-876-437

Query Match 74.6%; Score 47; DB 4; Length 135;
Best Local Similarity 66.7%; Pred. No. 42;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 WTGRMCC 9
Db 111 WGPCLSCC 119

RESULT 29
US-11-021-949-18
Sequence 18, Application US/11021949
Publication No. US20050142541A1
GENERAL INFORMATION:
APPLICANT: LU, PETER
APPLICANT: GARMAN, JONATHAN DAVID
APPLICANT: BELMARES, MICHAEL P.
APPLICANT: DIAZ-SARMIENTO, CHAMORO SOMOZA
APPLICANT: SCHWEIZER, JOHANNES
TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
FILE REFERENCE: VITA-012
CURRENT APPLICATION NUMBER: US/11/021,949
CURRENT FILING DATE: 2004-12-23
PRIOR APPLICATION NUMBER: 60/532,373
PRIOR FILING DATE: 2003-12-23
NUMBER OF SEQ ID NOS: 361
SOFTWARE: PasteSeq for Windows Version 4.0
SEQ ID NO 18
LENGTH: 149
TYPE: PRT
ORGANISM: human papilloma virus (HPV)
US-11-021-949-18

Query Match 74.6%; Score 47; DB 6; Length 149;
Best Local Similarity 75.0%; Pred. No. 46;
Matches 6; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 1 WTGRMCC 8
Db 132 WGPCLSCC 139

RESULT 30
US-10-425-115-284860
Sequence 284860, Application US/10425115
Publication No. US20040214272A1
GENERAL INFORMATION:
APPLICANT: La Rosa, Thomas J.
APPLICANT: Kovalic, David K.
APPLICANT: Zhou, Yihua
APPLICANT: Cao, Yongwei
TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
TITLE OF INVENTION: Plants
FILE REFERENCE: 38-21(53222)B
CURRENT APPLICATION NUMBER: US/10/425,115
CURRENT FILING DATE: 2003-04-28
NUMBER OF SEQ ID NOS: 363326
SEQ ID NO 284860

```

; LENGTH: 72
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: MRT4577_22895C.1.pep
US-10-425-115-284860
```

```

Query Match
Best Local Similarity 71.4%; Score 45; DB 4; Length 72;
Pred. No. 49;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;
```

```
QY 1 WTGRCMSC 9
|:|:|:|
Db 12 MSGRCVSTC 20
```

```

RESULT 31
US-10-437-963-144303
; Sequence 144303, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; APPLICANT: Wu, Wei
; APPLICANT: Boukharov, Andrey A.
; APPLICANT: Barbazuk, Brad
; APPLICANT: Li, Ping
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53221)B
; CURRENT APPLICATION NUMBER: US/10/437,963
; NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 144303
; LENGTH: 187
; TYPE: PRT
; ORGANISM: Oryza sativa
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT4530_4512C.1.pep
US-10-437-963-144303
```

```

Query Match
Best Local Similarity 71.4%; Score 45; DB 4; Length 187;
Pred. No. 1e+02;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
```

```
QY 1 WTGRCMSC 8
|:|:|:|
Db 148 WTGKCRSC 155
```

```

RESULT 32
US-10-424-599-220633
; Sequence 220633, Application US/10424599
; Publication No. US20040091072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J
; APPLICANT: Kovalic, David K
; APPLICANT: Zhou Yihua
; APPLICANT: Cao Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 220633
; LENGTH: 204
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; NAME/KEY: unsure
```

```

; LOCATION: (1)..(204)
; OTHER INFORMATION: unsure at all Xaa locations
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_41262C.1.pep
US-10-424-599-220633
```

```

Query Match
Best Local Similarity 71.4%; Score 45; DB 4; Length 204;
Pred. No. 1.1e+02;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
```

```
QY 1 WTGRCMSC 8
|:|:|:|
Db 147 WTGKCRSC 154
```

```

RESULT 33
US-10-425-115-341074
; Sequence 341074, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53222)B
; CURRENT APPLICATION NUMBER: US/10/425,115
; NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 341074
; LENGTH: 204
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: MRT4577_74228C.1.pep
US-10-425-115-341074
```

```

Query Match
Best Local Similarity 71.4%; Score 45; DB 4; Length 204;
Pred. No. 1.1e+02;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
```

```
QY 1 WTGRCMSC 8
|:|:|:|
Db 147 WTGKCRSC 154
```

```

RESULT 34
US-11-021-949-17
; Sequence 17, Application US/11021949
; Publication No. US20050142541A1
; GENERAL INFORMATION:
; APPLICANT: LU, PETER
; APPLICANT: GARMAN, JONATHAN DAVID
; APPLICANT: BELMARES, MICHAEL P.
; APPLICANT: DIAZ-SARMIENTO, CHAMORO SOWOZA
; APPLICANT: SCHWEIZER, JOHANNES
; TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
; FILE REFERENCE: VITA-012
; CURRENT APPLICATION NUMBER: US/11/021,949
; CURRENT FILING DATE: 2004-12-23
; PRIOR APPLICATION NUMBER: 60/532,373
; PRIOR FILING DATE: 2003-12-23
; NUMBER OF SEQ ID NOS: 361
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 17
; LENGTH: 148
; TYPE: PRT
; ORGANISM: human papilloma virus (HPV)
US-11-021-949-17

Query Match
69.8%; Score 44; DB 6; Length 148;
```


Best Local Similarity 75.0%; Pred. No. 1.2e+02;
Matches 6; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 WTGRCMSC 8
Db 133 WTGRCTC 139

RESULT 35
US-11-021-949-359

; Sequence 359, Application US/11021949
; Publication No. US20050142541A1
; GENERAL INFORMATION:
; APPLICANT: LU, PETER
; APPLICANT: GARMAN, JONATHAN DAVID
; APPLICANT: BELMARES, MICHAEL P.
; APPLICANT: DIAZ-SABMIENTO, CHAMORRO SOMOZA
; APPLICANT: SCHWEIZER, JOHANNES
; TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
; FILE REFERENCE: VITA-012
; CURRENT APPLICATION NUMBER: US/11/021,949
; CURRENT FILING DATE: 2004-12-23
; PRIOR APPLICATION NUMBER: 60/532,373
; PRIOR FILING DATE: 2003-12-23
; NUMBER OF SEQ ID NOS: 361
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 359
; LENGTH: 148
; TYPE: PRT
; ORGANISM: human papilloma virus (HPV)
US-11-021-949-359

Query Match 69.8%; Score 44; DB 6; Length 148;
Best Local Similarity 75.0%; Pred. No. 1.2e+02;
Matches 6; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 WTGRCMSC 8
Db 133 WTGRCTC 140

RESULT 36
US-11-021-949-19

; Sequence 19, Application US/11021949
; Publication No. US20050142541A1
; GENERAL INFORMATION:
; APPLICANT: LU, PETER
; APPLICANT: GARMAN, JONATHAN DAVID
; APPLICANT: BELMARES, MICHAEL P.
; APPLICANT: DIAZ-SABMIENTO, CHAMORRO SOMOZA
; APPLICANT: SCHWEIZER, JOHANNES
; TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
; FILE REFERENCE: VITA-012
; CURRENT APPLICATION NUMBER: US/11/021,949
; CURRENT FILING DATE: 2004-12-23
; PRIOR APPLICATION NUMBER: 60/532,373
; PRIOR FILING DATE: 2003-12-23
; NUMBER OF SEQ ID NOS: 361
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 19
; LENGTH: 148
; TYPE: PRT
; ORGANISM: human papilloma virus (HPV)
US-11-021-949-19

Query Match 68.3%; Score 43; DB 6; Length 148;
Best Local Similarity 75.0%; Pred. No. 1.6e+02;
Matches 6; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 WTGRCMSC 8
Db 133 WTGRCTC 140

Db 133 WTGRCTC 140

RESULT 37
US-09-764-877-1669

; Sequence 1669, Application US/09764877
; Patent No. US20020147140A1
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
; FILE REFERENCE: PC005
; CURRENT APPLICATION NUMBER: US/09/764,877
; CURRENT FILING DATE: 2001-01-17
; Prior application data removed - refer to PALM or file wrapper
; NUMBER OF SEQ ID NOS: 4031
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1669
; LENGTH: 91
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: SITE
; LOCATION: (12)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
; NAME/KEY: SITE
; LOCATION: (15)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
US-09-764-877-1669

Query Match 67.5%; Score 42.5; DB 3; Length 91;
Best Local Similarity 50.0%; Pred. No. 1.3e+02;
Matches 7; Conservative 1; Mismatches 1; Indels 5; Gaps 1;

Qy 1 WTGR-----CMSC 9
Db 74 WTGRSDDLQCLHCC 87

RESULT 38
US-10-242-515-1669

; Sequence 1669, Application US/10242515
; Publication No. US20040009488A1
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
; FILE REFERENCE: PC005C1
; CURRENT APPLICATION NUMBER: US/10/242,515
; CURRENT FILING DATE: 2002-09-13
; PRIOR APPLICATION NUMBER: 09/764,877
; PRIOR FILING DATE: 2001-01-17
; PRIOR APPLICATION NUMBER: 60/179,065
; PRIOR FILING DATE: 2000-01-31
; PRIOR APPLICATION NUMBER: 60/180,628
; PRIOR FILING DATE: 2000-02-04
; PRIOR APPLICATION NUMBER: 60/214,886
; PRIOR FILING DATE: 2000-06-28
; PRIOR APPLICATION NUMBER: 60/217,487
; PRIOR FILING DATE: 2000-07-11
; PRIOR APPLICATION NUMBER: 60/225,758
; PRIOR FILING DATE: 2000-08-14
; PRIOR APPLICATION NUMBER: 60/220,963
; PRIOR FILING DATE: 2000-07-26
; PRIOR APPLICATION NUMBER: 60/217,496
; PRIOR FILING DATE: 2000-07-11
; PRIOR APPLICATION NUMBER: 60/225,447
; PRIOR FILING DATE: 2000-08-14
; PRIOR APPLICATION NUMBER: 60/218,290
; PRIOR FILING DATE: 2000-07-14
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 4031
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1669
; LENGTH: 91

TYPE: PRT
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: misc_feature
LOCATION: (12)
OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
FEATURE:
NAME/KEY: misc_feature
LOCATION: (15)
OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
US-10-242-515-1669

Query Match 67.5%; Score 42.5; DB 4; Length 91;
Best Local Similarity 50.0%; Pred. No. 1.3e+02;
Matches 7; Conservative 1; Mismatches 1; Indels 5; Gaps 1;

QY 1 WTGR-----CMSCC 9
Db 74 WTGRSDLLQCLHCC 87

RESULT 39
US-10-424-599-254541
Sequence 254541, Application US/10424599
Publication No. US20040031072A1
GENERAL INFORMATION:
APPLICANT: La Rosa Thomas J
APPLICANT: Kovalic David K
APPLICANT: Zhou Yihua
APPLICANT: Cao Yongwei
TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
FILE REFERENCE: 38-21(53223)B
CURRENT APPLICATION NUMBER: US/10/424,599
CURRENT FILING DATE: 2003-04-28
NUMBER OF SEQ ID NOS: 285684
SEQ ID NO 254541
LENGTH: 98
TYPE: PRT
ORGANISM: Glycine max
FEATURE:
OTHER INFORMATION: Clone ID: PAT_MRT3847_71874C.1.pap
US-10-424-599-254541

Query Match 66.7%; Score 42; DB 4; Length 98;
Best Local Similarity 55.6%; Pred. No. 1.6e+02;
Matches 5; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 1 WTGRCMSCC 9
Db 36 WNRRCSECC 44

RESULT 40
US-10-425-114-55128
Sequence 55128, Application US/10425114
Publication No. US20040034888A1
GENERAL INFORMATION:
APPLICANT: Liu, Jindong
APPLICANT: Zhou, Yihua
APPLICANT: Kovalic, David K.
APPLICANT: Screen, Steven E
APPLICANT: Tabaska, Jack E
APPLICANT: Cao, Yongwei
TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
FILE REFERENCE: 38-21(5313)B
CURRENT APPLICATION NUMBER: US/10/425,114
CURRENT FILING DATE: 2003-04-28
NUMBER OF SEQ ID NOS: 73128
SEQ ID NO 55128
LENGTH: 146
TYPE: PRT

ORGANISM: Zea mays
FEATURE:
OTHER INFORMATION: Clone ID: UC-2MFLB73259F08_F11.pap
US-10-425-114-55128

Query Match 66.7%; Score 42; DB 4; Length 146;
Best Local Similarity 66.7%; Pred. No. 2.2e+02;
Matches 6; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 WTGRCMSCC 9
Db 123 WTERCRMCC 131

RESULT 41
US-11-021-949-15
Sequence 15, Application US/11021949
Publication No. US20050142541A1
GENERAL INFORMATION:
APPLICANT: LU, PETER
APPLICANT: GARMAN, JONATHAN DAVID
APPLICANT: BELMARES, MICHAEL P.
APPLICANT: DIAZ-SARMIENTO, CHAMORRO SONOZA
APPLICANT: SCHWEIZER, JOHANNES
TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
FILE REFERENCE: VITA-012
CURRENT APPLICATION NUMBER: US/11/021,949
CURRENT FILING DATE: 2004-12-23
PRIOR APPLICATION NUMBER: 60/532,373
PRIOR FILING DATE: 2003-12-23
NUMBER OF SEQ ID NOS: 361
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 15
LENGTH: 149
TYPE: PRT
ORGANISM: human papilloma virus (HPV)
US-11-021-949-15

Query Match 66.7%; Score 42; DB 6; Length 149;
Best Local Similarity 75.0%; Pred. No. 2.2e+02;
Matches 6; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 WTGRCMSCC 8
Db 132 WTRCAVC 139

RESULT 42
US-11-021-949-360
Sequence 360, Application US/11021949
Publication No. US20050142541A1
GENERAL INFORMATION:
APPLICANT: LU, PETER
APPLICANT: GARMAN, JONATHAN DAVID
APPLICANT: BELMARES, MICHAEL P.
APPLICANT: DIAZ-SARMIENTO, CHAMORRO SONOZA
APPLICANT: SCHWEIZER, JOHANNES
TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
FILE REFERENCE: VITA-012
CURRENT APPLICATION NUMBER: US/11/021,949
CURRENT FILING DATE: 2004-12-23
PRIOR APPLICATION NUMBER: 60/532,373
PRIOR FILING DATE: 2003-12-23
NUMBER OF SEQ ID NOS: 361
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 360
LENGTH: 149
TYPE: PRT
ORGANISM: human papilloma virus (HPV)
US-11-021-949-360

Query Match 66.7%; Score 42; DB 6; Length 149;
Best Local Similarity 75.0%; Pred. No. 2.2e+02;
Matches 6; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 WTGRCMSC 8
DB 132 WTGRCSVC 139

RESULT 43

US-10-949-21
Sequence 21, Application US/11021949
Publication No. US20050142541A1
GENERAL INFORMATION:
APPLICANT: LU, PETER
APPLICANT: GARMAN, JONATHAN DAVID
APPLICANT: BELMARES, MICHAEL P
APPLICANT: DIAZ-SARMIENTO, CHAMORRO SOMOZA
APPLICANT: SCHWEIZER, JOHANNES
TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
TITLE OF INVENTION: AND METHODS OF THEIR USE
FILE REFERENCE: VITA-012
CURRENT APPLICATION NUMBER: US/11/021,949
CURRENT FILING DATE: 2004-12-23
PRIOR APPLICATION NUMBER: 60/532,373
PRIOR FILING DATE: 2003-12-23
NUMBER OF SEQ ID NOS: 361
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 21
LENGTH: 154
TYPE: PRT
ORGANISM: human papilloma virus (HPV)
US-11-021-949-21

Query Match 66.7%; Score 42; DB 6; Length 154;
Best Local Similarity 62.5%; Pred. No. 2.3e+02;
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 WTGRCMSC 8
DB 136 WTGSCUTC 143

RESULT 44

US-10-264-237-2521
Sequence 2521, Application US/10264237
Publication No. US20040009491A1
GENERAL INFORMATION:
APPLICANT: Birse et al.
TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
FILE REFERENCE: PA131P1
CURRENT APPLICATION NUMBER: US/10/264,237
CURRENT FILING DATE: 2002-10-04
PRIOR APPLICATION NUMBER: PCT/US01/16450
PRIOR FILING DATE: 2001-05-18
PRIOR APPLICATION NUMBER: US 60/205,515
PRIOR FILING DATE: 2000-05-19
NUMBER OF SEQ ID NOS: 2876
SOFTWARE: PatentIn Ver. 3.1
SEQ ID NO 2521
LENGTH: 160
TYPE: PRT
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: MISC FEATURE
LOCATION: (125)
OTHER INFORMATION: Xaa equals any of the twenty naturally occurring L-amino acids
US-10-264-237-2521

Query Match 66.7%; Score 42; DB 4; Length 160;
Best Local Similarity 55.6%; Pred. No. 2.3e+02;
Matches 5; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY 1 WTGRCMSCC 9
DB 147 WSGSCSPCC 155

RESULT 45

US-10-425-114-67824
Sequence 67824, Application US/10425114
Publication No. US20040003488A1
GENERAL INFORMATION:
APPLICANT: Liu, Jingdong
APPLICANT: Zhou, Yihua
APPLICANT: Kovalic, David K.
APPLICANT: Screen, Steven E
APPLICANT: Tabaka, Jack E
APPLICANT: Cao, Yongwei
TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
FILE REFERENCE: 38-21(5313)B
CURRENT APPLICATION NUMBER: US/10/425,114
CURRENT FILING DATE: 2003-04-28
NUMBER OF SEQ ID NOS: 73128
SEQ ID NO 67824
LENGTH: 164
TYPE: PRT
ORGANISM: Zea mays
FEATURE:
OTHER INFORMATION: Clone ID: LIB3732-012-H5_FLI.pep
US-10-425-114-67824

Query Match 66.7%; Score 42; DB 4; Length 164;
Best Local Similarity 66.7%; Pred. No. 2.4e+02;
Matches 6; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 WTGRCMSCC 9
DB 151 WNGRCSCC 159

RESULT 46

US-10-282-122A-61887
Sequence 61887, Application US/10282122A
Publication No. US20040029129A1
GENERAL INFORMATION:
APPLICANT: Wang, Liangsu
APPLICANT: Zamudio, Carlos
APPLICANT: Malone, Cheryl
APPLICANT: Haselbeck, Robert
APPLICANT: Ohlsen, Karl
APPLICANT: Zyskind, Judith
APPLICANT: Wall, Daniel
APPLICANT: Trawick, John
APPLICANT: Carr, Grant
APPLICANT: Yamamoto, Robert
APPLICANT: Forsyth, R.
TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
FILE REFERENCE: ELITRA.034A
CURRENT APPLICATION NUMBER: US/10/282,122A
CURRENT FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: 60/191,078
PRIOR FILING DATE: 2000-03-21
PRIOR APPLICATION NUMBER: 60/206,848
PRIOR FILING DATE: 2000-05-23
PRIOR APPLICATION NUMBER: 60/207,727
PRIOR FILING DATE: 2000-05-26
PRIOR APPLICATION NUMBER: 60/230,335
PRIOR FILING DATE: 2000-09-06
PRIOR APPLICATION NUMBER: 60/230,347
PRIOR FILING DATE: 2000-09-09
PRIOR APPLICATION NUMBER: 60/242,578
PRIOR FILING DATE: 2000-10-23
PRIOR APPLICATION NUMBER: 60/253,625

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; PRIOR FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: 60/257,931
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: 60/267,636
; PRIOR FILING DATE: 2001-02-09
; PRIOR APPLICATION NUMBER: 60/269,308
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 78614
; SOFTWARE: PatentIn version 3.1
; LENGTH: 459
; TYPE: PRF
; ORGANISM: Mycobacterium avium
US-10-282-122A-61887

Query Match          66.7%; Score 42; DB 4; Length 459;
Best Local Similarity 62.5%; Pred. No. 5.3e+02;
Matches 5; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 WTGRCSMC 8
Db 5 WVGRCLEC 12

RESULT 47
US-10-282-122A-64902
; Sequence 64902, Application US/10282122A
; Publication No. US20040029129A1
; GENERAL INFORMATION:
; APPLICANT: Wang, Liangsu
; APPLICANT: Zamudio, Carlos
; APPLICANT: Malone, Cheryl
; APPLICANT: Haselbeck, Robert
; APPLICANT: Ohlsen, Karl
; APPLICANT: Zyskind, Judith
; APPLICANT: Wall, Daniel
; APPLICANT: Trawick, John
; APPLICANT: Carr, Grant
; APPLICANT: Yamamoto, Robert
; APPLICANT: Foreyth, R.
; APPLICANT: Xu, H.
; TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
; FILE REFERENCE: ELITPA.034A
; CURRENT APPLICATION NUMBER: US/10/282,122A
; CURRENT FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: 60/191,078
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: 60/206,848
; PRIOR FILING DATE: 2000-05-23
; PRIOR APPLICATION NUMBER: 60/207,727
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: 60/230,335
; PRIOR FILING DATE: 2000-09-06
; PRIOR APPLICATION NUMBER: 60/230,347
; PRIOR FILING DATE: 2000-09-09
; PRIOR APPLICATION NUMBER: 60/242,578
; PRIOR FILING DATE: 2000-10-23
; PRIOR APPLICATION NUMBER: 60/253,625
; PRIOR FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: 60/257,931
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: 60/267,636
; PRIOR FILING DATE: 2001-02-09
; PRIOR APPLICATION NUMBER: 60/269,308
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 78614
; SOFTWARE: PatentIn version 3.1
; LENGTH: 480
; TYPE: PRF
; ORGANISM: Mycobacterium tuberculosis
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US-10-282-122A-64902

Query Match          66.7%; Score 42; DB 4; Length 480;
Best Local Similarity 62.5%; Pred. No. 5.5e+02;
Matches 5; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 WTGRCSMC 8
Db 20 WVGRCLEC 27

RESULT 48
US-10-476-570-43
; Sequence 43, Application US/10476570
; Publication No. US20040170644A1
; GENERAL INFORMATION:
; APPLICANT: COMMISSARIAT A L'ENERGIE ATOMIQUE
; APPLICANT: INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE
; APPLICANT: MAILLIERE, Bernard
; APPLICANT: BOURGAULT-VILLADA, Isabelle
; APPLICANT: POUVELLE-MORATILLE, Sandra
; APPLICANT: GUILLET, Jean-Gerard
; TITLE OF INVENTION: Mixture of peptides derived from E6 and/or E7
; FILE REFERENCE: 45636-5071-US
; CURRENT APPLICATION NUMBER: US/10/476,570
; CURRENT FILING DATE: 2003-11-04
; PRIOR APPLICATION NUMBER: PCT/FR02/01533
; PRIOR FILING DATE: 2002-05-03
; PRIOR APPLICATION NUMBER: FR 01 05980
; PRIOR FILING DATE: 2001-05-04
; NUMBER OF SEQ ID NOS: 63
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 43
; LENGTH: 15
; TYPE: PRF
; ORGANISM: artificial sequence
; FEATURE:
; OTHER INFORMATION: Description of the artificial sequence: peptide E6 130-144
US-10-476-570-43

Query Match          65.1%; Score 41; DB 4; Length 15;
Best Local Similarity 100.0%; Pred. No. 51;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 WTGRCSMC 6
Db 10 WVGRCM 15

RESULT 49
US-10-425-115-214017
; Sequence 214017, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:
; APPLICANT: la Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53222)B
; CURRENT APPLICATION NUMBER: US/10/425,115
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 214017
; LENGTH: 118
; TYPE: PRF
; ORGANISM: Zea mays
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)..(118)
; OTHER INFORMATION: unsure at all Xaa locations
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FEATURE:
OTHER INFORMATION: Clone ID: WRT4577_126780C.1.pep
US-10-425-115-214017

Query Match 65.1%; Score 41; DB 4; Length 118;
Best Local Similarity 55.6%; Pred. No. 2.5e+02;
Matches 5; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 1 WTGRCMSCC 9
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Db 64 FSGECLSCC 72

RESULT 50
US-11-021-949-24
Sequence 24, Application US/11021949
Publication No. US20050142541A1
GENERAL INFORMATION:
APPLICANT: LU, PETER
APPLICANT: GARMAN, JONATHAN DAVID
APPLICANT: BELMARES, MICHAEL P.
APPLICANT: DIAZ-SARMIENTO, CHAMORRO SOMOZA
APPLICANT: SCHWEIZER, JOHANNES
TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
FILE REFERENCE: VITA-012
CURRENT APPLICATION NUMBER: US/11/021,949
CURRENT FILING DATE: 2004-12-23
PRIOR APPLICATION NUMBER: 60/532,373
PRIOR FILING DATE: 2003-12-23
NUMBER OF SEQ ID NOS: 361
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 24
LENGTH: 151
TYPE: PRT
ORGANISM: human papilloma virus (HPV)
US-11-021-949-24

Query Match 65.1%; Score 41; DB 6; Length 151;
Best Local Similarity 62.5%; Pred. No. 3.1e+02;
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 WTGRCMSC 8
|||:
Db 132 WTGCANNC 139

Search completed: May 5, 2006, 08:17:28
Job time: 58.8 secs

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OM protein - protein search, using SW model

Run on: May 5, 2006, 08:08:06 ; Search time 8.4 Seconds
(Without alignments)
49.591 Million cell updates/sec

Title: US-08-170-344-36

Perfect score: 63

Sequence: 1 WTGRCSGCC 9

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 235405 seqs, 46284737 residues

Total number of hits satisfying chosen parameters: 235405

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%
Listing first 1000 summaries

Database:

Published Applications_AA_New:
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2: /SID55/ptodata/1/pubpaa/US06_NEW_PUB.pep1.*
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7: /SID55/ptodata/1/pubpaa/US11_NEW_PUB.pep1.*
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11: /SID55/ptodata/1/pubpaa/US15_NEW_PUB.pep1.*
12: /SID55/ptodata/1/pubpaa/US16_NEW_PUB.pep1.*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

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1	63	100.0	10	US-10-530-061-512	Sequence 512, App
2	63	100.0	151	US-10-530-253-13	Sequence 13, Appl
3	63	100.0	158	US-11-206-138-3	Sequence 13, Appl
4	63	100.0	248	US-10-530-253-1	Sequence 1, Appl
5	63	100.0	248	US-10-530-253-3	Sequence 3, Appl
6	63	100.0	248	US-10-530-253-5	Sequence 5, Appl
7	63	100.0	248	US-10-530-253-7	Sequence 7, Appl
8	63	100.0	248	US-10-530-253-9	Sequence 9, Appl
9	63	100.0	248	US-10-530-253-11	Sequence 11, Appl
10	63	100.0	256	US-11-192-923A-2	Sequence 2, Appl
11	63	88.9	10	US-10-530-061-511	Sequence 511, Appl
12	54	85.7	149	US-10-530-253-18	Sequence 18, Appl
13	47	74.6	10	US-10-530-061-546	Sequence 546, App
14	47	74.6	149	US-10-530-253-16	Sequence 16, Appl
15	44	69.8	10	US-10-530-061-584	Sequence 584, App
16	44	69.8	148	US-10-530-253-22	Sequence 22, Appl
17	42	66.7	10	US-10-530-061-545	Sequence 545, App
18	42	66.7	10	US-10-530-061-602	Sequence 602, App
19	42	66.7	149	US-10-530-253-24	Sequence 24, Appl
20	41	65.1	10	US-10-530-061-593	Sequence 593, App
21	41	65.1	151	US-10-530-253-21	Sequence 21, Appl

22	41	65.1	155	US-10-530-253-23	Sequence 23, Appl
23	41	65.1	296	US-10-510-386-58	Sequence 58, Appl
24	40	63.5	10	US-10-530-061-557	Sequence 557, App
25	40	63.5	10	US-10-530-061-558	Sequence 558, App
26	40	63.5	149	US-10-530-253-17	Sequence 17, Appl
27	40	63.5	182	US-11-096-568A-1611	Sequence 1611, App
28	40	63.5	426	US-10-784-004-1172	Sequence 1172, App
29	40	63.5	476	US-10-784-004-1220	Sequence 1220, App
30	39	61.9	462	US-11-079-463-10049	Sequence 10049, A
31	39	61.9	744	US-11-087-099-1786	Sequence 1786, App
32	38	60.3	20	US-11-139-041-355	Sequence 355, App
33	38	60.3	20	US-11-139-041-356	Sequence 356, App
34	38	60.3	20	US-11-139-041-357	Sequence 357, App
35	38	60.3	33	US-11-139-041-426	Sequence 426, App
36	38	60.3	152	US-10-530-253-39	Sequence 39, Appl
37	38	60.3	384	US-11-139-041-304	Sequence 304, App
38	38	60.3	384	US-11-139-041-334	Sequence 334, App
39	38	60.3	394	US-11-139-041-336	Sequence 336, App
40	38	60.3	529	US-11-139-041-324	Sequence 324, App
41	38	60.3	656	US-11-234-786-379	Sequence 379, App
42	38	60.3	656	US-11-139-041-305	Sequence 305, App
43	38	60.3	671	US-11-234-786-380	Sequence 380, App
44	38	60.3	671	US-11-139-041-306	Sequence 306, App
45	38	60.3	961	US-11-096-568A-14789	Sequence 14789, A
46	38	60.3	1094	US-11-096-568A-14788	Sequence 14788, A
47	38	60.3	1165	US-11-142-700-8	Sequence 8, Appl
48	38	60.3	1165	US-11-096-568A-14787	Sequence 14787, A
49	38	60.3	1719	US-11-234-786-378	Sequence 378, App
50	37	58.7	10	US-10-530-061-583	Sequence 583, App
51	37	58.7	45	US-10-895-861-51	Sequence 51, Appl
52	37	58.7	45	US-11-004-399-886	Sequence 886, App
53	37	58.7	116	US-11-072-512-2094	Sequence 2094, App
54	37	58.7	116	US-10-530-253-15	Sequence 15, Appl
55	37	58.7	345	US-11-096-568A-10277	Sequence 10277, A
56	37	58.7	370	US-11-217-995-37	Sequence 37, Appl
57	37	58.7	442	US-11-188-298-1573	Sequence 1573, App
58	37	58.7	443	US-11-098-686-10861	Sequence 10861, A
59	37	58.7	544	US-10-980-388-40	Sequence 40, Appl
60	37	58.7	639	US-10-915-002-247	Sequence 247, App
61	37	58.7	1141	US-11-217-995-35	Sequence 35, Appl
62	37	58.7	1362	US-10-496-284-42	Sequence 22, Appl
63	37	58.7	1743	US-10-194-487-451	Sequence 451, App
64	37	58.7	1743	US-10-195-883-451	Sequence 451, App
65	37	58.7	1743	US-10-195-888-451	Sequence 451, App
66	37	58.7	1743	US-10-195-889-451	Sequence 451, App
67	37	58.7	1917	US-11-241-631-5	Sequence 51, Appl
68	37	58.7	4440	US-10-194-487-525	Sequence 525, App
69	37	58.7	4440	US-10-195-883-525	Sequence 525, App
70	37	58.7	4440	US-10-195-888-525	Sequence 525, App
71	37	58.7	4440	US-10-195-889-525	Sequence 525, App
72	36	57.1	10	US-10-530-061-533	Sequence 533, App
73	36	57.1	10	US-10-530-061-592	Sequence 592, App
74	36	57.1	10	US-10-530-061-601	Sequence 601, App
75	36	57.1	20	US-10-485-788A-631	Sequence 631, App
76	36	57.1	20	US-11-217-995-19	Sequence 19, Appl
77	36	57.1	89	US-09-978-360A-724	Sequence 724, App
78	36	57.1	199	US-11-096-568A-25691	Sequence 25691, A
79	36	57.1	274	US-11-182-243-21	Sequence 21, Appl
80	36	57.1	290	US-11-182-243-37	Sequence 37, Appl
81	36	57.1	302	US-11-182-592-6	Sequence 6, Appl
82	36	57.1	349	US-11-087-099-3877	Sequence 3877, App
83	36	57.1	353	US-11-182-592-4	Sequence 4, Appl
84	36	57.1	360	US-11-112-240-1	Sequence 1, Appl
85	36	57.1	360	US-11-112-240-1	Sequence 1, Appl
86	36	57.1	516	US-10-511-538-87	Sequence 87, Appl
87	36	57.1	516	US-11-018-668-136	Sequence 136, App
88	36	57.1	1193	US-10-505-928-537	Sequence 537, App
89	36	57.1	1193	US-10-194-487-581	Sequence 581, App
90	36	57.1	1435	US-10-195-883-581	Sequence 581, App
91	36	57.1	1435	US-10-195-888-581	Sequence 581, App
92	36	57.1	1435	US-10-195-889-581	Sequence 581, App
93	36	57.1	1652	US-11-241-631-1	Sequence 1, Appl
94	36	57.1	1683	US-11-131-479-38	Sequence 36, Appl

95	36	57.1	1697	11	US-11-019-711-68	Sequence 68, Appl	168	33	52.4	20	11	US-11-139-041-371	Sequence 371, App
96	36	57.1	1713	9	US-10-766-317-2	Sequence 2, Appl	169	33	52.4	33	11	US-11-139-041-428	Sequence 428, App
97	36	57.1	1723	11	US-11-019-711-18	Sequence 18, Appl	170	33	52.4	46	11	US-11-188-298-2326	Sequence 2326, App
98	36	57.1	1724	9	US-10-766-317-6	Sequence 6, Appl	171	33	52.4	67	11	US-11-004-339-2378	Sequence 2378, Ap
99	36	57.1	2508	11	US-11-241-631-7	Sequence 7, Appl	172	33	52.4	85	9	US-10-948-571-82	Sequence 82, Appl
100	36	57.1	2544	11	US-11-241-631-3	Sequence 3, Appl	173	33	52.4	87	11	US-11-184-574-8	Sequence 8, Appl
101	36	57.1	2601	11	US-11-241-631-9	Sequence 9, Appl	174	33	52.4	92	11	US-11-008-727-6	Sequence 6, Appl
102	36	57.1	3333	9	US-10-766-317-4	Sequence 4, Appl	175	33	52.4	92	11	US-11-058-542-1	Sequence 1, Appl
103	36	57.1	3500	11	US-11-085-775-2	Sequence 2, Appl	176	33	52.4	92	11	US-11-152-601-1	Sequence 1, Appl
104	35	55.6	67	11	US-11-234-786-580	Sequence 580, App	177	33	52.4	92	11	US-11-152-601-24	Sequence 24, Appl
105	35	55.6	128	11	US-11-072-512-3112	Sequence 3112, Ap	178	33	52.4	92	11	US-11-152-601-25	Sequence 25, Appl
106	35	55.6	164	11	US-11-096-568A-26546	Sequence 26546, A	179	33	52.4	92	11	US-11-152-601-26	Sequence 26, Appl
107	35	55.6	197	11	US-11-096-568A-26545	Sequence 26545, A	180	33	52.4	92	11	US-11-152-601-29	Sequence 29, Appl
108	35	55.6	208	11	US-11-096-568A-19219	Sequence 19219, A	181	33	52.4	92	11	US-11-152-601-30	Sequence 30, Appl
109	35	55.6	235	11	US-11-096-568A-21918	Sequence 21918, A	182	33	52.4	92	11	US-11-152-601-31	Sequence 31, Appl
110	35	55.6	246	11	US-11-055-822-198	Sequence 198, App	183	33	52.4	92	11	US-11-152-601-32	Sequence 32, Appl
111	35	55.6	246	11	US-11-239-674-82	Sequence 82, Appl	184	33	52.4	92	11	US-11-152-601-33	Sequence 33, Appl
112	35	55.6	307	11	US-11-040-595-19	Sequence 19, Appl	185	33	52.4	92	11	US-11-152-601-34	Sequence 34, Appl
113	35	55.6	318	11	US-11-040-595-20	Sequence 20, Appl	186	33	52.4	92	11	US-11-190-465A-1	Sequence 1, Appl
114	35	55.6	432	11	US-11-098-686-10865	Sequence 10865, A	187	33	52.4	92	11	US-11-190-465A-45	Sequence 45, Appl
115	35	55.6	457	11	US-11-045-004-1662	Sequence 1662, Ap	188	33	52.4	95	9	US-10-644-807-200	Sequence 200, App
116	35	55.6	516	9	US-10-455-772-1004	Sequence 1004, Ap	189	33	52.4	95	9	US-10-644-807-283	Sequence 283, App
117	35	55.6	516	9	US-10-498-691A-2	Sequence 2, Appl	190	33	52.4	95	11	US-11-152-601-12	Sequence 12, Appl
118	35	55.6	1300	9	US-10-194-487-269	Sequence 269, App	191	33	52.4	95	11	US-11-152-601-13	Sequence 13, Appl
119	35	55.6	1300	9	US-10-195-883-269	Sequence 269, App	192	33	52.4	96	11	US-11-152-601-2	Sequence 2, Appl
120	35	55.6	1300	9	US-10-195-888-269	Sequence 269, App	193	33	52.4	96	11	US-11-152-601-3	Sequence 3, Appl
121	35	55.6	1300	9	US-10-195-889-269	Sequence 269, App	194	33	52.4	96	11	US-11-152-601-4	Sequence 4, Appl
122	35	55.6	1356	9	US-10-894-592-3	Sequence 3, Appl	195	33	52.4	96	11	US-11-152-601-6	Sequence 6, Appl
123	35	55.6	1894	9	US-10-194-487-97	Sequence 97, Appl	196	33	52.4	96	11	US-11-190-465A-44	Sequence 44, Appl
124	35	55.6	1894	9	US-10-195-883-97	Sequence 97, Appl	197	33	52.4	96	11	US-11-190-465A-46	Sequence 46, Appl
125	35	55.6	1894	9	US-10-195-888-97	Sequence 97, Appl	198	33	52.4	96	11	US-11-190-465A-47	Sequence 47, Appl
126	35	55.6	1894	9	US-10-195-888-97	Sequence 97, Appl	199	33	52.4	96	11	US-11-190-465A-48	Sequence 48, Appl
127	35	55.6	1970	9	US-10-821-234-1641	Sequence 1641, Ap	200	33	52.4	96	11	US-11-190-465A-49	Sequence 49, Appl
128	35	55.6	2505	9	US-10-523-328-16	Sequence 16, Appl	201	33	52.4	96	11	US-11-190-465A-50	Sequence 50, Appl
129	34.5	54.8	330	9	US-10-511-989-36	Sequence 36, Appl	202	33	52.4	96	11	US-11-190-465A-52	Sequence 52, Appl
130	34.5	54.8	384	11	US-11-087-099-9976	Sequence 9976, Ap	203	33	52.4	96	11	US-11-190-465A-54	Sequence 54, Appl
131	34.5	54.8	656	11	US-11-096-568A-30420	Sequence 30420, Ap	204	33	52.4	96	11	US-11-190-465A-54	Sequence 54, Appl
132	34.5	54.8	653	11	US-11-096-568A-30419	Sequence 30419, A	205	33	52.4	96	11	US-11-190-465A-55	Sequence 55, Appl
133	34.5	54.8	814	11	US-11-096-568A-30418	Sequence 30418, A	206	33	52.4	96	11	US-11-190-465A-56	Sequence 56, Appl
134	34.5	54.8	944	9	US-10-511-989-34	Sequence 34, Appl	207	33	52.4	116	9	US-10-821-234-1625	Sequence 1625, Ap
135	34.5	54.8	969	9	US-10-055-877-214	Sequence 214, App	208	33	52.4	116	10	US-11-183-218-10	Sequence 10, Appl
136	34.5	54.8	1574	9	US-10-055-877-211	Sequence 211, App	209	33	52.4	116	10	US-11-183-218-12	Sequence 12, Appl
137	34	54.0	20	11	US-11-139-041-363	Sequence 363, App	210	33	52.4	116	11	US-11-183-239-2	Sequence 2, Appl
138	34	54.0	20	9	US-11-139-041-364	Sequence 36, Appl	211	33	52.4	116	11	US-11-219-339-2	Sequence 2, Appl
139	34	54.0	33	9	US-10-895-861-36	Sequence 36, Appl	212	33	52.4	122	9	US-10-467-657-1392	Sequence 1392, Ap
140	34	54.0	33	11	US-11-139-041-427	Sequence 427, App	213	33	52.4	122	11	US-11-264-096-1887	Sequence 1887, Ap
141	34	54.0	60	9	US-10-895-861-34	Sequence 34, Appl	214	33	52.4	122	11	US-11-264-096-1888	Sequence 1888, Ap
142	34	54.0	85	11	US-11-079-463-9667	Sequence 9667, Ap	215	33	52.4	147	11	US-11-072-512-3752	Sequence 3752, Ap
143	34	54.0	86	9	US-10-506-454-727	Sequence 727, App	216	33	52.4	192	11	US-11-079-463-5804	Sequence 5804, Ap
144	34	54.0	158	9	US-10-530-253-20	Sequence 20, Appl	217	33	52.4	204	11	US-11-096-568A-26773	Sequence 26773, A
145	34	54.0	173	7	US-09-810-501-24	Sequence 24, Appl	218	33	52.4	235	11	US-11-152-601-51	Sequence 51, Appl
146	34	54.0	212	11	US-11-051-720-1338	Sequence 1338, Ap	219	33	52.4	235	11	US-11-172-740-2225	Sequence 2225, Ap
147	34	54.0	249	11	US-11-087-099-5375	Sequence 5375, Ap	220	33	52.4	237	11	US-11-152-601-48	Sequence 48, Appl
148	34	54.0	361	11	US-11-188-298-17408	Sequence 17408, A	221	33	52.4	237	11	US-11-152-601-49	Sequence 49, Appl
149	34	54.0	455	11	US-11-264-096-1401	Sequence 1401, Ap	222	33	52.4	237	11	US-11-152-601-50	Sequence 50, Appl
150	34	54.0	720	9	US-10-063-703-38	Sequence 38, Appl	223	33	52.4	237	11	US-11-152-601-51	Sequence 51, Appl
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152	34	54.0	720	9	US-10-195-883-170	Sequence 170, App	225	33	52.4	237	11	US-11-152-601-53	Sequence 53, Appl
153	34	54.0	720	9	US-10-195-888-170	Sequence 170, App	226	33	52.4	237	11	US-11-152-601-54	Sequence 54, Appl
154	34	54.0	720	11	US-10-195-889-170	Sequence 170, App	227	33	52.4	237	11	US-11-152-601-55	Sequence 55, Appl
155	34	54.0	720	11	US-11-102-240-38	Sequence 38, Appl	228	33	52.4	237	11	US-11-152-601-56	Sequence 56, Appl
156	34	54.0	720	11	US-11-103-195-38	Sequence 38, Appl	229	33	52.4	237	11	US-11-152-601-57	Sequence 57, Appl
157	34	54.0	762	11	US-11-188-298-22284	Sequence 22284, A	230	33	52.4	251	11	US-11-096-568A-1257	Sequence 1257, Ap
158	34	54.0	907	11	US-11-188-298-22284	Sequence 1337, Ap	231	33	52.4	251	11	US-11-096-568A-1259	Sequence 1259, Ap
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160	34	54.0	919	11	US-11-051-720-1336	Sequence 1336, Ap	233	33	52.4	280	11	US-11-096-568A-1256	Sequence 1256, Ap
161	34	54.0	931	11	US-11-051-720-1437	Sequence 1437, Ap	234	33	52.4	281	9	US-10-131-826A-372	Sequence 372, App
162	34	54.0	1128	11	US-11-241-631-11	Sequence 11, Appl	235	33	52.4	281	9	US-10-137-873A-372	Sequence 372, App
163	34	54.0	1127	11	US-11-178-230-10	Sequence 10, Appl	236	33	52.4	281	9	US-10-137-873A-372	Sequence 372, App
164	34	54.0	4060	9	US-10-922-328-55	Sequence 55, Appl	237	33	52.4	281	9	US-11-258-647-3	Sequence 372, App
165	34	54.0	6738	9	US-10-922-328-56	Sequence 56, Appl	238	33	52.4	281	11	US-11-290-153-372	Sequence 372, App
166	33	52.4	20	11	US-11-213-443-12	Sequence 12, Appl	239	33	52.4	281	11	US-11-290-153-372	Sequence 372, App
167	33	52.4	20	11	US-11-139-041-370	Sequence 370, Appl	240	33	52.4	281	11	US-11-264-096-2267	Sequence 2267, App

241	33	52.4	282	11	US-11-079-463-5971	Sequence 5971, App	314	32	50.8	33	11	US-11-121-301-32	Sequence 32, App1
242	33	52.4	284	11	US-11-170-268-40	Sequence 40, App1	315	32	50.8	38	9	US-10-957-351-203	Sequence 203, App
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244	33	52.4	292	11	US-11-139-041-315	Sequence 315, App	317	32	50.8	39	9	US-10-895-861-95	Sequence 95, App1
245	33	52.4	292	11	US-11-139-041-345	Sequence 345, App	318	32	50.8	45	9	US-10-895-861-61	Sequence 50, App1
246	33	52.4	292	11	US-11-139-041-346	Sequence 346, App	319	32	50.8	45	9	US-10-895-861-61	Sequence 61, App1
247	33	52.4	293	9	US-10-131-826A-422	Sequence 422, App	320	32	50.8	45	9	US-10-895-861-62	Sequence 62, App1
248	33	52.4	293	9	US-10-973-115B-422	Sequence 422, App	321	32	50.8	48	9	US-10-967-527A-20	Sequence 20, App1
249	33	52.4	293	9	US-10-216-161A-231	Sequence 231, App	322	32	50.8	52	11	US-11-123-896-288	Sequence 288, App
250	33	52.4	293	9	US-10-137-873A-422	Sequence 422, App	323	32	50.8	72	9	US-10-986-501-162	Sequence 162, App
251	33	52.4	293	9	US-10-152-370-422	Sequence 422, App	324	32	50.8	82	11	US-11-123-896-287	Sequence 287, App
252	33	52.4	293	11	US-11-290-153-422	Sequence 422, App	325	32	50.8	86	11	US-11-096-568A-1385	Sequence 1385, App
253	33	52.4	311	11	US-11-139-041-347	Sequence 347, App	326	32	50.8	86	11	US-11-264-096-1663	Sequence 1663, App
254	33	52.4	313	11	US-11-139-041-348	Sequence 348, App	327	32	50.8	86	11	US-11-264-096-1664	Sequence 1664, App
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256	33	52.4	335	8	US-10-511-937-2469	Sequence 2469, App	329	32	50.8	92	11	US-11-152-601-28	Sequence 28, App1
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261	33	52.4	366	11	US-11-087-099-7455	Sequence 7455, App	334	32	50.8	115	11	US-11-250-759-290	Sequence 290, App
262	33	52.4	374	11	US-11-087-099-1572	Sequence 1572, App	335	32	50.8	120	11	US-11-096-568A-12352	Sequence 12352, A
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264	33	52.4	384	11	US-11-139-041-332	Sequence 332, App	337	32	50.8	141	9	US-10-219-061-16	Sequence 16, App1
265	33	52.4	384	11	US-11-139-041-333	Sequence 333, App	338	32	50.8	141	9	US-10-219-061-16	Sequence 16, App1
266	33	52.4	391	11	US-11-139-041-340	Sequence 340, App	339	32	50.8	141	9	US-10-219-061-16	Sequence 16, App1
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270	33	52.4	459	9	US-10-467-657-3092	Sequence 3092, App	343	32	50.8	141	11	US-11-051-720-1708	Sequence 1708, App
271	33	52.4	461	8	US-10-511-937-2945	Sequence 2945, App	344	32	50.8	141	11	US-11-043-806-486	Sequence 486, App
272	33	52.4	461	9	US-10-523-328-5	Sequence 32, App1	345	32	50.8	141	11	US-11-043-806-486	Sequence 486, App
273	33	52.4	461	10	US-11-183-218-32	Sequence 32, App1	346	32	50.8	141	11	US-11-250-759-215	Sequence 215, App
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276	33	52.4	461	11	US-11-183-205-32	Sequence 32, App1	349	32	50.8	157	11	US-11-050-857-972	Sequence 972, App
277	33	52.4	470	11	US-11-260-192-2	Sequence 2, App1	350	32	50.8	157	11	US-11-043-806-489	Sequence 489, App
278	33	52.4	461	8	US-10-505-928-765	Sequence 20, App1	351	32	50.8	160	11	US-10-530-253-26	Sequence 22, App1
279	33	52.4	513	8	US-10-505-928-765	Sequence 765, App	352	32	50.8	164	11	US-11-153-071-22	Sequence 971, App
280	33	52.4	513	9	US-10-650-326B-16	Sequence 16, App1	353	32	50.8	164	11	US-11-050-857-971	Sequence 1710, App
281	33	52.4	513	9	US-10-921-793-16	Sequence 16, App1	354	32	50.8	164	11	US-11-051-720-1710	Sequence 1710, App
282	33	52.4	513	9	US-10-931-198-16	Sequence 16, App1	355	32	50.8	164	11	US-11-043-806-488	Sequence 488, App
283	33	52.4	513	9	US-10-942-042-16	Sequence 16, App1	356	32	50.8	165	11	US-11-050-857-970	Sequence 970, App
284	33	52.4	513	9	US-11-000-463-816	Sequence 16, App1	357	32	50.8	165	11	US-11-051-720-1709	Sequence 1709, App
285	33	52.4	513	11	US-11-096-568A-24714	Sequence 816, App	358	32	50.8	165	11	US-11-043-806-487	Sequence 487, App
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287	33	52.4	779	11	US-11-096-568A-24713	Sequence 695, App	360	32	50.8	172	11	US-11-225-903-4	Sequence 4, App1
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293	32.5	51.6	350	11	US-11-188-298-14213	Sequence 1427, App	366	32	50.8	215	9	US-10-131-826A-4	Sequence 4, App1
294	32.5	51.6	350	11	US-11-188-298-17678	Sequence 17678, A	367	32	50.8	215	9	US-10-137-873A-4	Sequence 4, App1
295	32.5	51.6	350	11	US-11-188-298-22365	Sequence 22365, A	368	32	50.8	215	9	US-10-137-873A-4	Sequence 4, App1
296	32.5	51.6	351	11	US-11-188-298-15597	Sequence 5596, App	369	32	50.8	215	9	US-10-137-873A-4	Sequence 4, App1
297	32.5	51.6	351	11	US-11-188-298-15597	Sequence 5596, App	370	32	50.8	215	9	US-10-137-873A-4	Sequence 4, App1
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302	32.5	51.6	371	11	US-11-188-298-14833	Sequence 14833, A	375	32	50.8	223	11	US-11-096-568A-14845	Sequence 14845, App
303	32.5	51.6	374	11	US-11-087-099-7439	Sequence 7439, App	376	32	50.8	245	11	US-11-096-568A-11982	Sequence 9, App1
304	32.5	51.6	374	11	US-11-188-298-4758	Sequence 4758, App	377	32	50.8	245	11	US-11-096-568A-11982	Sequence 9, App1
305	32.5	51.6	374	11	US-11-188-298-6825	Sequence 6825, App	378	32	50.8	246	8	US-10-505-928-114	Sequence 414, App
306	32.5	51.6	375	11	US-11-188-298-9275	Sequence 9275, App	379	32	50.8	246	8	US-10-505-928-114	Sequence 335, App
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308	32.5	51.6	375	11	US-11-188-298-17154	Sequence 17154, A	381	32	50.8	263	11	US-11-069-473-9	Sequence 9, App1
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310	32.5	51.6	1069	11	US-11-072-175-170	Sequence 170, App	383	32	50.8	284	11	US-11-096-568A-17484	Sequence 17484, A
311	32.5	51.6	1418	9	US-10-453-372-864	Sequence 864, App	384	32	50.8	284	11	US-11-096-568A-17213	Sequence 17213, A
312	32.5	51.6	1730	9	US-11-182-016-19	Sequence 19, App1	385	32	50.8	292	9	US-10-967-527A-19	Sequence 19, App1
313	32	50.8	24	11	US-11-004-399-2215	Sequence 2215, App	386	32	50.8	293	9	US-10-742-634-7	Sequence 7, App1

387	32	50.8	293	11	US-11-221-849-2	Sequence 2, Appl1	460	31	49.2	8	11	US-11-129-741-4105	Sequence 4105, Ap
388	32	50.8	293	11	US-11-242-294-2	Sequence 2, Appl1	461	31	49.2	13	11	US-11-064-774A-1200	Sequence 1200, Ap
389	32	50.8	293	11	US-11-200-992-6	Sequence 6, Appl1	462	31	49.2	13	11	US-11-166-099-8	Sequence 8, Appl1
390	32	50.8	293	11	US-11-069-473-2	Sequence 2, Appl1	463	31	49.2	13	11	US-11-075-047A-111	Sequence 111, App
391	32	50.8	296	11	US-11-096-568A-25814	Sequence 25814, A	464	31	49.2	14	11	US-11-153-880-8	Sequence 8, Appl1
392	32	50.8	296	11	US-11-096-568A-19100	Sequence 19100, A	465	31	49.2	14	11	US-11-211-724-6	Sequence 6, Appl1
393	32	50.8	299	11	US-11-264-096-1661	Sequence 1661, Ap	466	31	49.2	14	11	US-11-233-119-8	Sequence 8, Appl1
394	32	50.8	317	11	US-11-096-568A-25429	Sequence 25429, A	467	31	49.2	14	11	US-11-249-422-8	Sequence 8, Appl1
395	32	50.8	321	9	US-10-478-345-8	Sequence 8, Appl1	468	31	49.2	20	11	US-11-217-995-22	Sequence 22, Appl
396	32	50.8	321	9	US-10-063-703-10	Sequence 10, Appl	469	31	49.2	27	9	US-10-895-861-71	Sequence 71, Appl
397	32	50.8	321	11	US-11-102-240-10	Sequence 10, Appl	470	31	49.2	33	11	US-11-121-301-37	Sequence 37, Appl
398	32	50.8	321	11	US-11-103-195-10	Sequence 10, Appl	471	31	49.2	38	8	US-10-516-079-17	Sequence 7, Appl1
399	32	50.8	323	11	US-11-264-096-1402	Sequence 1402, Ap	472	31	49.2	38	8	US-10-516-079-17	Sequence 17, Appl
400	32	50.8	329	11	US-11-096-568A-25428	Sequence 25428, A	473	31	49.2	48	11	US-11-096-568A-8676	Sequence 8676, Ap
401	32	50.8	330	11	US-11-096-568A-4844	Sequence 4844, Ap	474	31	49.2	59	9	US-10-948-571-96	Sequence 96, Appl
402	32	50.8	331	9	US-10-467-9628-61	Sequence 61, Appl	475	31	49.2	79	11	US-11-140-284-15	Sequence 15, Appl
403	32	50.8	332	11	US-11-242-294-62	Sequence 62, Appl	476	31	49.2	83	11	US-11-000-463-246	Sequence 246, App
404	32	50.8	332	11	US-11-096-568A-4843	Sequence 4843, Ap	477	31	49.2	84	11	US-11-140-284-12	Sequence 12, Appl
405	32	50.8	337	11	US-11-087-099-1202	Sequence 1202, Ap	478	31	49.2	84	11	US-11-140-284-13	Sequence 13, Appl
406	32	50.8	338	11	US-11-096-568A-25427	Sequence 25427, A	479	31	49.2	84	11	US-11-240-769-60	Sequence 60, Appl
407	32	50.8	341	11	US-11-096-568A-11981	Sequence 11981, A	480	31	49.2	87	11	US-11-000-463-718	Sequence 718, App
408	32	50.8	344	11	US-11-242-294-52	Sequence 52, Appl	481	31	49.2	87	11	US-11-064-774A-1201	Sequence 1201, Ap
409	32	50.8	346	11	US-11-096-568A-7777	Sequence 7777, Ap	482	31	49.2	87	11	US-11-064-774A-1203	Sequence 1203, Ap
410	32	50.8	347	11	US-11-096-568A-25772	Sequence 25772, A	483	31	49.2	87	11	US-11-075-047A-110	Sequence 110, App
411	32	50.8	348	11	US-11-242-294-54	Sequence 54, Appl	484	31	49.2	95	9	US-10-131-826A-62	Sequence 62, Appl
412	32	50.8	348	11	US-11-096-568A-11980	Sequence 11980, A	485	31	49.2	95	9	US-10-973-115B-62	Sequence 62, Appl
413	32	50.8	348	11	US-11-189-298-19437	Sequence 19437, A	486	31	49.2	95	9	US-10-137-873A-62	Sequence 62, Appl
414	32	50.8	353	11	US-11-096-568A-25771	Sequence 25771, A	487	31	49.2	95	9	US-10-152-370-62	Sequence 62, Appl
415	32	50.8	357	11	US-11-242-294-56	Sequence 56, Appl	488	31	49.2	95	11	US-11-290-153-62	Sequence 62, Appl
416	32	50.8	357	11	US-11-217-919-4	Sequence 4, Appl1	489	31	49.2	124	11	US-11-072-512-3487	Sequence 3487, Ap
417	32	50.8	371	11	US-11-087-099-4260	Sequence 4260, Ap	490	31	49.2	129	11	US-11-180-298-10208	Sequence 10208, A
418	32	50.8	392	11	US-11-242-294-50	Sequence 50, Appl	491	31	49.2	147	9	US-10-213-292-41	Sequence 41, Appl
419	32	50.8	395	11	US-11-087-099-5725	Sequence 5725, Ap	492	31	49.2	148	11	US-11-064-774A-121	Sequence 121, App
420	32	50.8	396	11	US-11-188-298-6723	Sequence 6723, Ap	493	31	49.2	148	11	US-11-075-400-16	Sequence 16, Appl
421	32	50.8	433	9	US-10-877-346-77	Sequence 77, Appl	494	31	49.2	148	11	US-11-075-047A-89	Sequence 89, Appl
422	32	50.8	438	11	US-11-096-568A-25770	Sequence 25770, A	495	31	49.2	149	11	US-11-064-774A-115	Sequence 115, App
423	32	50.8	442	11	US-11-096-568A-23131	Sequence 23131, A	496	31	49.2	149	11	US-11-075-400-11	Sequence 4, Appl1
424	32	50.8	451	9	US-10-509-773-12	Sequence 12, Appl	497	31	49.2	149	11	US-11-226-005-5	Sequence 5, Appl1
425	32	50.8	459	9	US-10-763-712A-70	Sequence 70, Appl	498	31	49.2	149	11	US-11-075-047A-85	Sequence 85, Appl1
426	32	50.8	462	11	US-11-096-568A-13047	Sequence 13047, A	499	31	49.2	150	11	US-11-264-096-95	Sequence 95, Appl
427	32	50.8	464	8	US-10-505-928-757	Sequence 757, App	500	31	49.2	152	11	US-11-096-568A-30162	Sequence 30162, A
428	32	50.8	467	11	US-11-096-568A-7776	Sequence 7776, Ap	501	31	49.2	156	11	US-11-096-568A-20111	Sequence 20111, A
429	32	50.8	469	11	US-11-096-568A-7775	Sequence 7775, Ap	502	31	49.2	160	9	US-10-530-253-25	Sequence 25, Appl1
430	32	50.8	489	11	US-11-096-568A-13045	Sequence 13045, A	503	31	49.2	161	11	US-11-129-076-5	Sequence 5, Appl1
431	32	50.8	491	11	US-11-096-568A-13045	Sequence 13045, A	504	31	49.2	167	11	US-11-264-096-499	Sequence 499, App
432	32	50.8	563	11	US-11-264-096-2084	Sequence 2084, Ap	505	31	49.2	169	11	US-11-096-568A-24311	Sequence 24311, A
433	32	50.8	566	11	US-11-264-096-1756	Sequence 1756, Ap	506	31	49.2	169	11	US-11-096-568A-30161	Sequence 30161, A
434	32	50.8	685	11	US-11-022-478-25	Sequence 25, Appl	507	31	49.2	170	8	US-10-505-928-584	Sequence 584, App
435	32	50.8	833	11	US-11-022-478-2	Sequence 2, Appl	508	31	49.2	174	11	US-11-096-568A-20110	Sequence 20110, A
436	32	50.8	861	11	US-11-096-568A-33917	Sequence 33917, A	509	31	49.2	190	11	US-11-249-442-7	Sequence 7, Appl1
437	32	50.8	881	11	US-11-096-568A-33916	Sequence 33916, A	510	31	49.2	196	11	US-11-153-880-5	Sequence 5, Appl1
438	32	50.8	969	11	US-11-096-568A-30346	Sequence 30346, A	511	31	49.2	196	11	US-11-064-774A-125	Sequence 125, App
439	32	50.8	979	11	US-11-096-568A-30344	Sequence 30344, A	512	31	49.2	196	11	US-11-211-774-3	Sequence 3, Appl1
440	32	50.8	1055	11	US-11-096-568A-30345	Sequence 30345, A	513	31	49.2	196	11	US-11-129-076-2	Sequence 2, Appl1
441	32	50.8	1058	11	US-11-096-568A-27717	Sequence 27717, A	514	31	49.2	196	11	US-11-076-427A-18	Sequence 18, Appl1
442	32	50.8	1061	11	US-11-096-568A-27716	Sequence 27716, A	515	31	49.2	196	11	US-11-233-119-5	Sequence 5, Appl1
443	32	50.8	1069	11	US-11-096-568A-33915	Sequence 33915, A	516	31	49.2	196	11	US-11-075-047A-99	Sequence 99, Appl
444	32	50.8	1094	11	US-11-096-568A-27715	Sequence 27715, A	517	31	49.2	196	11	US-11-096-568A-24310	Sequence 24310, A
445	32	50.8	1148	11	US-11-142-700-4	Sequence 4, Appl1	518	31	49.2	198	11	US-11-096-568A-19433	Sequence 19433, A
446	32	50.8	1503	11	US-11-145-405B-5	Sequence 5, Appl1	519	31	49.2	204	11	US-11-129-076-1	Sequence 1, Appl1
447	32	50.8	1678	11	US-11-124-367A-340	Sequence 340, Appl	520	31	49.2	205	9	US-10-689-742-72	Sequence 72, Appl
448	32	50.8	1678	11	US-11-124-367A-341	Sequence 341, App	521	31	49.2	211	11	US-11-075-400-18	Sequence 18, Appl
449	32	50.8	1886	9	US-10-515-868-8	Sequence 8, Appl1	522	31	49.2	211	11	US-11-249-442-5	Sequence 5, Appl1
450	32	50.8	2107	9	US-10-995-561-827	Sequence 827, App	523	31	49.2	218	11	US-11-220-769-209	Sequence 209, App
451	32	50.8	2480	9	US-10-995-561-825	Sequence 825, App	524	31	49.2	226	11	US-11-096-568A-20109	Sequence 20109, A
452	32	50.8	3116	9	US-10-995-561-826	Sequence 826, App	525	31	49.2	234	9	US-10-330-773-611	Sequence 611, App
453	31.5	50.0	42	9	US-10-967-527A-18	Sequence 18, Appl	526	31	49.2	235	11	US-11-096-568A-19432	Sequence 19432, A
454	31.5	50.0	231	11	US-11-132-285-61	Sequence 61, Appl	527	31	49.2	241	11	US-11-064-774A-127	Sequence 127, App
455	31.5	50.0	297	9	US-10-967-527A-17	Sequence 17, Appl	528	31	49.2	241	11	US-11-075-400-20	Sequence 20, Appl
456	31.5	50.0	817	9	US-10-784-004-706	Sequence 706, App	529	31	49.2	241	11	US-11-211-724-4	Sequence 4, Appl1
457	31.5	50.0	817	9	US-10-784-004-1080	Sequence 1080, Ap	530	31	49.2	241	11	US-11-211-724-4	Sequence 4, Appl1
458	31.5	50.0	824	9	US-10-784-004-385	Sequence 385, App	531	31	49.2	241	11	US-11-149-462-4	Sequence 4, Appl1
459	31.5	50.0	824	9	US-10-784-004-934	Sequence 934, App	532	31	49.2	241	11	US-11-129-076-3	Sequence 3, Appl1

533	31	49.2	241	11	US-11-129-076-4	Sequence 4, Appl1	606	31	49.2	1609	11	US-11-072-175-185	Sequence 185, App
534	31	49.2	241	11	US-11-076-427A-20	Sequence 20, Appl1	607	31	49.2	1798	9	US-10-995-561-1033	Sequence 1033, Ap
535	31	49.2	241	11	US-11-233-119-6	Sequence 60, Appl1	608	31	49.2	1798	9	US-10-995-561-1034	Sequence 1034, Ap
536	31	49.2	241	11	US-11-075-047A-101	Sequence 101, App	609	31	49.2	3333	11	US-11-037-243-64	Sequence 64, Appl
537	31	49.2	241	11	US-11-207-847-8	Sequence 3, Appl1	610	30.5	48.4	134	11	US-11-096-568A-4045	Sequence 404, Ap
538	31	49.2	241	11	US-11-249-422-6	Sequence 6, Appl1	611	30.5	48.4	159	11	US-11-153-071-8	Sequence 8, Appl1
539	31	49.2	255	11	US-11-096-568A-20660	Sequence 20660, A	612	30.5	48.4	201	9	US-10-821-234-1645	Sequence 1645, Ap
540	31	49.2	262	9	US-10-506-454-1182	Sequence 1182, Ap	613	30.5	48.4	373	9	US-11-188-298-10929	Sequence 10929, A
541	31	49.2	296	11	US-11-102-978-7	Sequence 7, Appl1	614	30.5	48.4	434	9	US-10-467-657-4482	Sequence 4482, Ap
542	31	49.2	296	11	US-11-182-343-31	Sequence 31, Appl1	615	30.5	48.4	539	11	US-11-188-298-6567	Sequence 8765, Ap
543	31	49.2	301	11	US-11-087-099-5847	Sequence 5847, Ap	616	30.5	48.4	558	11	US-11-188-298-8765	Sequence 3186, Ap
544	31	49.2	331	11	US-11-188-298-17282	Sequence 17282, A	617	30.5	48.4	870	11	US-11-188-298-3186	Sequence 3186, Ap
545	31	49.2	352	11	US-11-024-959-334	Sequence 334, App	618	30.5	48.4	1450	9	US-10-453-172-884	Sequence 874, App
546	31	49.2	353	11	US-11-096-568A-28198	Sequence 28198, A	619	30.5	48.4	1450	9	US-10-453-172-886	Sequence 886, App
547	31	49.2	354	11	US-11-087-099-11419	Sequence 11419, A	620	30.5	48.4	1577	9	US-10-453-877-54	Sequence 54, Appl
548	31	49.2	355	11	US-11-072-512-3556	Sequence 3556, Ap	621	30.5	48.4	1577	9	US-10-453-172-882	Sequence 882, App
549	31	49.2	363	11	US-11-169-041-214	Sequence 214, App	622	30.5	48.4	1577	9	US-10-453-172-884	Sequence 884, App
550	31	49.2	366	11	US-11-087-099-6407	Sequence 6407, Ap	623	30.5	48.4	1594	9	US-10-453-172-860	Sequence 860, App
551	31	49.2	370	11	US-11-087-099-11201	Sequence 11201, A	624	30.5	48.4	1630	9	US-10-453-172-868	Sequence 868, App
552	31	49.2	374	11	US-11-087-099-4683	Sequence 4683, Ap	625	30.5	48.4	1630	9	US-10-453-172-866	Sequence 866, App
553	31	49.2	375	11	US-11-087-099-4379	Sequence 4379, Ap	626	30.5	48.4	1630	9	US-10-453-172-865	Sequence 865, App
554	31	49.2	382	11	US-11-124-368A-173	Sequence 173, App	627	30	47.6	10	9	US-10-530-061-532	Sequence 532, App
555	31	49.2	382	11	US-11-124-368A-174	Sequence 174, App	628	30	47.6	29	11	US-11-144-947-627	Sequence 627, App
556	31	49.2	382	11	US-11-127-877-58	Sequence 58, Appl	629	30	47.6	35	11	US-11-055-163-4	Sequence 4, Appl1
557	31	49.2	383	11	US-11-188-298-10748	Sequence 10748, A	630	30	47.6	38	11	US-11-068-783-78	Sequence 78, Appl1
558	31	49.2	383	11	US-11-188-298-10748	Sequence 28197, A	631	30	47.6	39	9	US-10-971-559-34	Sequence 13, Appl
559	31	49.2	386	11	US-11-096-568A-28197	Sequence 224, App	632	30	47.6	41	11	US-11-027-111-13	Sequence 33, Appl
560	31	49.2	401	11	US-11-072-175-224	Sequence 3, Appl1	633	30	47.6	60	9	US-10-895-861-33	Sequence 53, App
561	31	49.2	409	8	US-10-508-063A-3	Sequence 10405, A	634	30	47.6	60	11	US-11-255-427-15	Sequence 15, App
562	31	49.2	416	11	US-11-098-686-10405	Sequence 2576, Ap	635	30	47.6	61	8	US-10-505-928-563	Sequence 563, App
563	31	49.2	426	8	US-10-511-937-2576	Sequence 28196, A	636	30	47.6	61	8	US-10-505-928-590	Sequence 590, App
564	31	49.2	434	11	US-11-096-568A-28196	Sequence 28196, A	637	30	47.6	61	8	US-10-505-928-630	Sequence 630, App
565	31	49.2	448	11	US-11-096-568A-24243	Sequence 972, App	638	30	47.6	61	8	US-10-505-928-668	Sequence 668, App
566	31	49.2	482	9	US-10-821-234-972	Sequence 71, Appl	639	30	47.6	61	8	US-10-505-928-722	Sequence 722, App
567	31	49.2	494	9	US-10-763-712A-71	Sequence 111, App	640	30	47.6	61	8	US-10-505-928-787	Sequence 787, App
568	31	49.2	494	9	US-10-763-712A-111	Sequence 10418, A	641	30	47.6	61	11	US-11-255-427-12	Sequence 12, Appl1
569	31	49.2	519	11	US-11-188-298-10418	Sequence 44, Appl	642	30	47.6	61	11	US-11-255-427-13	Sequence 13, Appl1
570	31	49.2	527	11	US-11-240-341-44	Sequence 24242, A	643	30	47.6	61	11	US-11-255-427-14	Sequence 14, Appl1
571	31	49.2	543	11	US-11-096-568A-24242	Sequence 10, Appl	644	30	47.6	62	9	US-10-914-391A-2	Sequence 25, App
572	31	49.2	572	9	US-10-763-712A-10	Sequence 37, Appl	645	30	47.6	62	9	US-10-475-075-254	Sequence 16, Appl
573	31	49.2	572	9	US-10-763-712A-11	Sequence 109, App	646	30	47.6	62	9	US-11-255-427-16	Sequence 2, Appl1
574	31	49.2	572	9	US-10-763-712A-109	Sequence 110, App	647	30	47.6	63	9	US-10-914-391A-2	Sequence 646, App
575	31	49.2	572	9	US-10-763-712A-110	Sequence 102, App	648	30	47.6	63	11	US-11-079-463-6046	Sequence 504, App
576	31	49.2	574	9	US-10-763-712A-102	Sequence 23, Appl	649	30	47.6	64	11	US-11-144-947-504	Sequence 817, App
577	31	49.2	574	9	US-10-763-712A-101	Sequence 101, App	650	30	47.6	68	8	US-10-505-928-817	Sequence 932, App
578	31	49.2	582	9	US-10-763-712A-23	Sequence 36, Appl	651	30	47.6	68	11	US-11-096-568A-9431	Sequence 366, App
579	31	49.2	582	9	US-10-763-712A-101	Sequence 1121, Ap	652	30	47.6	72	11	US-11-229-769-366	Sequence 241, App
580	31	49.2	582	9	US-10-763-712A-36	Sequence 32, Appl	653	30	47.6	73	11	US-11-000-463-771	Sequence 15466, A
581	31	49.2	644	9	US-10-821-234-1121	Sequence 1092, Ap	654	30	47.6	73	11	US-11-000-463-771	Sequence 12337, A
582	31	49.2	656	9	US-10-509-131-32	Sequence 740, App	655	30	47.6	81	11	US-11-096-568A-15465	Sequence 1465, A
583	31	49.2	667	9	US-10-784-004-1092	Sequence 1092, Ap	656	30	47.6	85	11	US-11-096-568A-12337	Sequence 380, App
584	31	49.2	767	9	US-10-784-004-1092	Sequence 422, App	657	30	47.6	88	11	US-11-096-568A-15465	Sequence 82, App
585	31	49.2	767	9	US-10-784-004-1092	Sequence 946, App	658	30	47.6	92	11	US-11-000-463-380	Sequence 1428, Ap
586	31	49.2	775	9	US-10-516-099-2	Sequence 2, Appl1	659	30	47.6	96	11	US-11-096-568A-1428	Sequence 450, App
587	31	49.2	798	9	US-10-784-004-946	Sequence 6, Appl1	660	30	47.6	97	11	US-11-096-568A-9431	Sequence 931, App
588	31	49.2	810	11	US-11-192-813-2	Sequence 1048, Ap	661	30	47.6	102	11	US-11-096-568A-25440	Sequence 25440, A
589	31	49.2	810	11	US-11-192-813-4	Sequence 6139, Ap	662	30	47.6	105	11	US-11-087-099-7946	Sequence 18366, A
590	31	49.2	810	11	US-11-192-813-6	Sequence 48, Appl	663	30	47.6	105	11	US-11-188-298-18366	Sequence 232, App
591	31	49.2	826	9	US-10-821-234-1048	Sequence 48, Appl	664	30	47.6	105	11	US-11-096-568A-25439	Sequence 2080, App
592	31	49.2	835	11	US-11-188-298-6139	Sequence 25, Appl	665	30	47.6	105	11	US-11-096-568A-12336	Sequence 29577, A
593	31	49.2	844	9	US-10-763-712A-48	Sequence 33412, A	666	30	47.6	105	11	US-11-096-568A-29577	Sequence 3034, Ap
594	31	49.2	1086	11	US-11-142-700-10	Sequence 63, Appl	667	30	47.6	105	11	US-11-096-568A-22036	Sequence 3681, Ap
595	31	49.2	1249	11	US-11-128-022-30	Sequence 12, Appl	668	30	47.6	122	11	US-11-072-512-3681	Sequence 9964, Ap
596	31	49.2	1249	11	US-11-128-022-30	Sequence 14, Appl	669	30	47.6	125	11	US-11-096-568A-9965	Sequence 9965, Ap
597	31	49.2	1249	11	US-11-128-022-30	Sequence 33411, A	670	30	47.6	125	11	US-11-096-568A-9965	Sequence 1288, A
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681	30	47.6	148	9	US-10-530-253-19	Sequence 19, Appl	754	30	47.6	414	11	US-11-188-298-1168	Sequence 1168, Ap
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684	30	47.6	161	11	US-11-225-903-10	Sequence 10, Appl1	757	30	47.6	438	11	US-11-096-568A-5016	Sequence 5016, Ap
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686	30	47.6	177	11	US-11-096-568A-21472	Sequence 21472, A	759	30	47.6	448	11	US-11-182-016-24	Sequence 24, Appl
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694	30	47.6	203	11	US-11-096-568A-31540	Sequence 31540, A	767	30	47.6	473	9	US-10-219-061-128	Sequence 128, App
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707	30	47.6	228	11	US-11-096-568A-222	Sequence 220, App	780	30	47.6	497	10	US-11-091-234A-34	Sequence 34, Appl
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711	30	47.6	231	9	US-10-821-234-943	Sequence 943, App	784	30	47.6	504	9	US-10-934-944-160	Sequence 160, App
712	30	47.6	234	9	US-10-644-807-440	Sequence 440, App	785	30	47.6	504	9	US-10-934-944-226	Sequence 226, App
713	30	47.6	240	11	US-11-172-740-1456	Sequence 1456, Ap	786	30	47.6	504	11	US-11-116-881A-167	Sequence 167, App
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716	30	47.6	252	11	US-11-096-568A-38554	Sequence 38554, A	789	30	47.6	505	9	US-10-934-944-204	Sequence 204, App
717	30	47.6	260	11	US-11-096-568A-824	Sequence 824, App	790	30	47.6	505	9	US-10-934-944-206	Sequence 206, App
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728	30	47.6	323	11	US-11-188-298-601	Sequence 601, App	801	30	47.6	520	9	US-10-763-712A-54	Sequence 54, Appl
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736	30	47.6	349	11	US-11-018-868-118	Sequence 118, App	809	30	47.6	566	11	US-11-065-655-2	Sequence 2, Appl1
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744	30	47.6	361	11	US-11-188-298-7613	Sequence 7613, Ap	817	30	47.6	607	9	US-10-137-873A-102	Sequence 102, App
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832	30	47.6	685	11	US-11-050-346-64	Sequence 64, App1	905	29	46.0	28	11	US-11-050-857-1113	Sequence 1113, Ap
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845	30	47.6	834	9	US-10-137-873A-148	Sequence 148, App	918	29	46.0	74	11	US-11-123-896-368	Sequence 2079, Ap
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863	30	47.6	1323	9	US-10-517-939-312	Sequence 312, App	936	29	46.0	102	11	US-11-064-774A-185	Sequence 185, App
864	30	47.6	1479	9	US-10-204-639-4	Sequence 4, App1	937	29	46.0	102	11	US-11-064-774A-185	Sequence 185, App
865	30	47.6	1742	11	US-11-182-016-23	Sequence 23, App1	938	29	46.0	102	11	US-11-064-774A-203	Sequence 203, App
866	30	47.6	1754	11	US-11-188-298-13080	Sequence 13080, A	939	29	46.0	102	11	US-11-064-774A-203	Sequence 203, App
867	30	47.6	2044	11	US-11-045-004-7	Sequence 7, App1	940	29	46.0	102	11	US-11-064-774A-203	Sequence 203, App
868	30	47.6	3712	11	US-11-019-711-48	Sequence 48, App1	941	29	46.0	102	11	US-11-064-774A-211	Sequence 211, App
869	30	47.6	3712	11	US-11-019-711-51	Sequence 51, App1	942	29	46.0	102	11	US-11-064-774A-217	Sequence 217, App
870	30	47.6	33	11	US-11-121-301-75	Sequence 75, App1	943	29	46.0	102	11	US-11-064-774A-217	Sequence 217, App
871	29.5	46.8	37	9	US-10-971-559-19	Sequence 19, App1	944	29	46.0	102	11	US-11-064-774A-225	Sequence 225, App
872	29.5	46.8	162	11	US-11-072-512-3724	Sequence 3724, App	945	29	46.0	102	11	US-11-064-774A-227	Sequence 227, App
873	29.5	46.8	298	11	US-11-188-298-11671	Sequence 11671, A	946	29	46.0	102	11	US-11-064-774A-233	Sequence 233, App
874	29.5	46.8	315	11	US-11-072-512-3207	Sequence 3207, App	947	29	46.0	102	11	US-11-064-774A-235	Sequence 235, App
875	29.5	46.8	336	11	US-11-188-298-10061	Sequence 10061, A	948	29	46.0	102	11	US-11-064-774A-235	Sequence 235, App
876	29.5	46.8	348	11	US-11-188-298-2472	Sequence 2472, App	949	29	46.0	102	11	US-11-064-774A-241	Sequence 241, App
877	29.5	46.8	348	11	US-11-188-298-5800	Sequence 5800, App	950	29	46.0	102	11	US-11-064-774A-243	Sequence 243, App
878	29.5	46.8	348	11	US-11-188-298-6072	Sequence 6072, App	951	29	46.0	102	11	US-11-064-774A-249	Sequence 249, App
879	29.5	46.8	348	11	US-11-188-298-8506	Sequence 8506, App	952	29	46.0	102	11	US-11-064-774A-251	Sequence 251, App
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881	29.5	46.8	348	11	US-11-188-298-12704	Sequence 12704, A	954	29	46.0	102	11	US-11-064-774A-265	Sequence 265, App
882	29.5	46.8	348	11	US-11-188-298-12901	Sequence 12901, A	955	29	46.0	102	11	US-11-064-774A-267	Sequence 267, App
883	29.5	46.8	348	11	US-11-188-298-14868	Sequence 14868, A	956	29	46.0	102	11	US-11-064-774A-273	Sequence 273, App
884	29.5	46.8	348	11	US-11-188-298-15046	Sequence 15046, A	957	29	46.0	102	11	US-11-064-774A-275	Sequence 275, App
885	29.5	46.8	351	11	US-11-188-298-17889	Sequence 17889, App	958	29	46.0	102	11	US-11-064-774A-281	Sequence 281, App
886	29.5	46.8	351	11	US-11-188-298-20438	Sequence 20438, A	959	29	46.0	102	11	US-11-064-774A-283	Sequence 283, App
887	29.5	46.8	352	11	US-11-087-099-6436	Sequence 6436, App	960	29	46.0	102	11	US-11-064-774A-289	Sequence 289, App
888	29.5	46.8	352	11	US-11-188-298-16925	Sequence 16925, A	961	29	46.0	102	11	US-11-064-774A-291	Sequence 291, App
889	29.5	46.8	373	11	US-11-188-298-15259	Sequence 15259, A	962	29	46.0	102	11	US-11-064-774A-297	Sequence 297, App
890	29.5	46.8	373	11	US-11-188-298-15936	Sequence 15936, A	963	29	46.0	102	11	US-11-064-774A-299	Sequence 299, App
891	29.5	46.8	375	11	US-11-188-298-6932	Sequence 6932, App	964	29	46.0	102	11	US-11-064-774A-305	Sequence 305, App
892	29.5	46.8	375	11	US-11-188-298-15492	Sequence 15492, A	965	29	46.0	102	11	US-11-064-774A-307	Sequence 307, App
893	29.5	46.8	375	11	US-11-188-298-19378	Sequence 19378, A	966	29	46.0	102	11	US-11-064-774A-313	Sequence 313, App
894	29.5	46.8	375	11	US-11-188-298-20534	Sequence 20534, A	967	29	46.0	102	11	US-11-064-774A-315	Sequence 315, App
895	29.5	46.8	377	11	US-11-188-298-20534	Sequence 20534, A	968	29	46.0	102	11	US-11-064-774A-321	Sequence 321, App
896	29.5	46.8	388	11	US-11-188-298-19057	Sequence 19057, A	969	29	46.0	102	11	US-11-064-774A-321	Sequence 321, App
897	29.5	46.8	431	11	US-11-087-099-1733	Sequence 1733, Ap	970	29	46.0	102	11	US-11-064-774A-323	Sequence 323, App

971 29 46.0 102 11 US-11-064-774A-329 Sequence 329, App
972 29 46.0 102 11 US-11-064-774A-331 Sequence 331, App
973 29 46.0 102 11 US-11-064-774A-337 Sequence 337, App
974 29 46.0 102 11 US-11-064-774A-339 Sequence 339, App
975 29 46.0 102 11 US-11-064-774A-345 Sequence 345, App
976 29 46.0 102 11 US-11-064-774A-347 Sequence 347, App
977 29 46.0 102 11 US-11-064-774A-353 Sequence 353, App
978 29 46.0 102 11 US-11-064-774A-355 Sequence 355, App
979 29 46.0 102 11 US-11-064-774A-361 Sequence 361, App
980 29 46.0 102 11 US-11-064-774A-363 Sequence 363, App
981 29 46.0 102 11 US-11-064-774A-369 Sequence 369, App
982 29 46.0 102 11 US-11-064-774A-371 Sequence 371, App
983 29 46.0 102 11 US-11-064-774A-377 Sequence 377, App
984 29 46.0 102 11 US-11-064-774A-379 Sequence 379, App
985 29 46.0 102 11 US-11-064-774A-385 Sequence 385, App
986 29 46.0 102 11 US-11-064-774A-387 Sequence 387, App
987 29 46.0 102 11 US-11-064-774A-393 Sequence 393, App
988 29 46.0 102 11 US-11-064-774A-395 Sequence 395, App
989 29 46.0 102 11 US-11-064-774A-401 Sequence 401, App
990 29 46.0 102 11 US-11-064-774A-403 Sequence 403, App
991 29 46.0 102 11 US-11-064-774A-409 Sequence 409, App
992 29 46.0 102 11 US-11-064-774A-411 Sequence 411, App
993 29 46.0 102 11 US-11-064-774A-417 Sequence 417, App
994 29 46.0 102 11 US-11-064-774A-419 Sequence 419, App
995 29 46.0 102 11 US-11-064-774A-425 Sequence 425, App
996 29 46.0 102 11 US-11-064-774A-427 Sequence 427, App
997 29 46.0 102 11 US-11-064-774A-689 Sequence 689, App
998 29 46.0 102 11 US-11-064-774A-691 Sequence 691, App
999 29 46.0 102 11 US-11-064-774A-697 Sequence 697, App
1000 29 46.0 102 11 US-11-064-774A-699 Sequence 699, App

ALIGNMENTS

RESULT 1
US-10-530-061-512
; Sequence 512, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.03US02/EKS/W-M
; CURRENT APPLICATION NUMBER: US/10/530, 061
; PRIOR FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 512
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-512

Query Match 100.0%; Score 63; DB 9; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.0015;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 WTGRCMSCC 9
|||||
Db 1 WTGRCMSCC 9

RESULT 2
US-10-530-253-13
; Sequence 13, Application US/10530253

; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Cassetti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530, 253
; PRIOR FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 13
; LENGTH: 151
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-10-530-253-13

Query Match 100.0%; Score 63; DB 9; Length 151;
Best Local Similarity 100.0%; Pred. No. 0.011;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 WTGRCMSCC 9
|||||
Db 132 WTGRCMSCC 140

RESULT 3
US-11-206-138-3
; Sequence 3, Application US/11206138
; Publication No. US20060039919A1
; GENERAL INFORMATION:
; APPLICANT: HealthBanks Biotech CO. LTD.
; TITLE OF INVENTION: Fusion protein for inhibiting cervical cancer
; FILE REFERENCE: P7819/0613
; CURRENT APPLICATION NUMBER: US/11/206,138
; PRIOR FILING DATE: 2005-08-18
; NUMBER OF SEQ ID NOS: 14
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 3
; LENGTH: 158
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-11-206-138-3

Query Match 100.0%; Score 63; DB 11; Length 158;
Best Local Similarity 100.0%; Pred. No. 0.011;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 WTGRCMSCC 9
|||||
Db 139 WTGRCMSCC 147

RESULT 4
US-10-530-253-1
; Sequence 1, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Cassetti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530, 253
; PRIOR FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02

PRIOR APPLICATION NUMBER: US 60/415,929
PRIOR FILING DATE: 2002-10-03
NUMBER OF SEQ ID NOS: 65
SOFTWARE: PatentIn version 3.1
SEQ ID NO 1
LENGTH: 248
TYPE: PRT
ORGANISM: Human papillomavirus type 16
US-10-530-253-1

Query Match 100.0%; Score 63; DB 9; Length 248;
Best Local Similarity 100.0%; Pred. No. 0.015;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 WTGRMSCC 9
Db 132 WTGRMSCC 140

RESULT 5
US-10-530-253-3
Sequence 3, Application US/10530253
Publication No. US20060014926A1
GENERAL INFORMATION:
APPLICANT: Casasetti, Maria C.
APPLICANT: Smith, Larry
APPLICANT: Jeffrey K. Pullen
APPLICANT: Susan P. McElhinney
TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
FILE REFERENCE: 00630/100M137-US2
CURRENT APPLICATION NUMBER: US/10/530,253
PRIOR FILING DATE: 2005-04-04
PRIOR APPLICATION NUMBER: PCT/US2003/031726
PRIOR FILING DATE: 2003-10-02
PRIOR APPLICATION NUMBER: US 60/415,929
PRIOR FILING DATE: 2002-10-03
NUMBER OF SEQ ID NOS: 65
SOFTWARE: PatentIn version 3.1
SEQ ID NO 3
LENGTH: 248
TYPE: PRT
ORGANISM: Human papillomavirus type 16
US-10-530-253-3

Query Match 100.0%; Score 63; DB 9; Length 248;
Best Local Similarity 100.0%; Pred. No. 0.015;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 WTGRMSCC 9
Db 132 WTGRMSCC 140

RESULT 6
US-10-530-253-5
Sequence 5, Application US/10530253
Publication No. US20060014926A1
GENERAL INFORMATION:
APPLICANT: Casasetti, Maria C.
APPLICANT: Smith, Larry
APPLICANT: Jeffrey K. Pullen
APPLICANT: Susan P. McElhinney
TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
FILE REFERENCE: 00630/100M137-US2
CURRENT APPLICATION NUMBER: US/10/530,253
PRIOR FILING DATE: 2005-04-04
PRIOR APPLICATION NUMBER: PCT/US2003/031726
PRIOR FILING DATE: 2003-10-02
PRIOR APPLICATION NUMBER: US 60/415,929
PRIOR FILING DATE: 2002-10-03
NUMBER OF SEQ ID NOS: 65
SOFTWARE: PatentIn version 3.1
SEQ ID NO 5

LENGTH: 248
TYPE: PRT
ORGANISM: Human papillomavirus type 16
US-10-530-253-5

Query Match 100.0%; Score 63; DB 9; Length 248;
Best Local Similarity 100.0%; Pred. No. 0.015;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 WTGRMSCC 9
Db 132 WTGRMSCC 140

RESULT 7
US-10-530-253-7
Sequence 7, Application US/10530253
Publication No. US20060014926A1
GENERAL INFORMATION:
APPLICANT: Casasetti, Maria C.
APPLICANT: Smith, Larry
APPLICANT: Jeffrey K. Pullen
APPLICANT: Susan P. McElhinney
TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
FILE REFERENCE: 00630/100M137-US2
CURRENT APPLICATION NUMBER: US/10/530,253
PRIOR FILING DATE: 2005-04-04
PRIOR APPLICATION NUMBER: PCT/US2003/031726
PRIOR FILING DATE: 2003-10-02
PRIOR APPLICATION NUMBER: US 60/415,929
PRIOR FILING DATE: 2002-10-03
NUMBER OF SEQ ID NOS: 65
SOFTWARE: PatentIn version 3.1
SEQ ID NO 7
LENGTH: 248
TYPE: PRT
ORGANISM: Human papillomavirus type 16
US-10-530-253-7

Query Match 100.0%; Score 63; DB 9; Length 248;
Best Local Similarity 100.0%; Pred. No. 0.015;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 WTGRMSCC 9
Db 229 WTGRMSCC 237

RESULT 8
US-10-530-253-9
Sequence 9, Application US/10530253
Publication No. US20060014926A1
GENERAL INFORMATION:
APPLICANT: Casasetti, Maria C.
APPLICANT: Smith, Larry
APPLICANT: Jeffrey K. Pullen
APPLICANT: Susan P. McElhinney
TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
FILE REFERENCE: 00630/100M137-US2
CURRENT APPLICATION NUMBER: US/10/530,253
PRIOR FILING DATE: 2005-04-04
PRIOR APPLICATION NUMBER: PCT/US2003/031726
PRIOR FILING DATE: 2003-10-02
PRIOR APPLICATION NUMBER: US 60/415,929
PRIOR FILING DATE: 2002-10-03
NUMBER OF SEQ ID NOS: 65
SOFTWARE: PatentIn version 3.1
SEQ ID NO 9
LENGTH: 248
TYPE: PRT
ORGANISM: Human papillomavirus type 16
US-10-530-253-9

Query Match 100.0%; Score 63; DB 9; Length 248;
Best Local Similarity 100.0%; Pred. No. 0.015;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 WTGRCSGCC 9
Db 229 WTGRCSGCC 237

RESULT 9
US-10-530-253-11
; Sequence 11, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Caesetti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: Patentin version 3.1
; SEQ ID NO 11
; LENGTH: 248
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-10-530-253-11

Query Match 100.0%; Score 63; DB 9; Length 248;
Best Local Similarity 100.0%; Pred. No. 0.015;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 WTGRCSGCC 9
Db 229 WTGRCSGCC 237

RESULT 10
US-11-192-923A-2
; Sequence 2, Application US/11192923A
; Publication No. US20060018928A1
; GENERAL INFORMATION:
; APPLICANT: PANG, XIAOWU
; TITLE OF INVENTION: VIRUS-LIKE PARTICLE CONTAINING A DENGUE VIRUS
; FILE REFERENCE: 116620-003
; CURRENT APPLICATION NUMBER: US/11/192,923A
; CURRENT FILING DATE: 2005-07-29
; PRIOR APPLICATION NUMBER: CN 03115272.4
; PRIOR FILING DATE: 2003-01-30
; PRIOR APPLICATION NUMBER: CN 03115273.2
; PRIOR FILING DATE: 2003-01-30
; NUMBER OF SEQ ID NOS: 45
; SOFTWARE: Patentin Ver. 3.3
; SEQ ID NO 2
; LENGTH: 256
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-11-192-923A-2

Query Match 100.0%; Score 63; DB 11; Length 256;
Best Local Similarity 100.0%; Pred. No. 0.016;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 WTGRCSGCC 9
Db 237 WTGRCSGCC 245

RESULT 11
US-10-530-061-511

; Sequence 511, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.03/US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: US/10/530,061
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: Patentin version 3.3
; SEQ ID NO 511
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-511

Query Match 88.9%; Score 56; DB 9; Length 10;
Best Local Similarity 88.9%; Pred. No. 0.015;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 WTGRCSGCC 9
Db 1 WTGRCSGCC 9

RESULT 12
US-10-530-253-18
; Sequence 18, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Caesetti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: Patentin version 3.1
; SEQ ID NO 18
; LENGTH: 149
; TYPE: PRT
; ORGANISM: Human papillomavirus type 35
US-10-530-253-18

Query Match 85.7%; Score 54; DB 9; Length 149;
Best Local Similarity 100.0%; Pred. No. 0.22;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 WTGRCSGCC 8
Db 132 WTGRCSGCC 139

RESULT 13
US-10-530-061-546


```
Sequence 546, Application US/10530061
Publication No. US20060079453A1
GENERAL INFORMATION:
APPLICANT: SIDNEY, JOHN
APPLICANT: SOUTHWOOD, SCOTT
APPLICANT: SETTE, ALESSANDRO
TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
FILE REFERENCE: 2060.033US02/EKS/M-M
CURRENT APPLICATION NUMBER: US/10/530,061
CURRENT FILING DATE: 2005-04-04
PRIOR APPLICATION NUMBER: PCT/US03/31308
PRIOR FILING DATE: 2003-10-03
PRIOR APPLICATION NUMBER: 60/416,207
PRIOR FILING DATE: 2002-10-03
PRIOR APPLICATION NUMBER: 60/417,269
PRIOR FILING DATE: 2002-10-08
NUMBER OF SEQ ID NOS: 2503
SOFTWARE: PatentIn version 3.3
SEQ ID NO 546
LENGTH: 10
TYPE: PRT
ORGANISM: Human papillomavirus
US-10-530-061-546
```

```
Query Match 74.6%; Score 47; DB 9; Length 10;
Best Local Similarity 75.0%; Pred. No. 0.31;
Matches 6; Conservative 2; Mismatches 0; Indels 0; Gaps 0;
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QY 1 WTGRCMSC 8
DB 1 WTGRCIAC 8
```

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RESULT 14
US-10-530-253-16
Sequence 16, Application US/10530253
Publication No. US20060014926A1
GENERAL INFORMATION:
APPLICANT: Caesetti, Maria C.
APPLICANT: Smith, Larry
APPLICANT: Jeffrey K. Pullen
APPLICANT: Susan P. McElhiney
TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
FILE REFERENCE: 00630/100M137-US2
CURRENT APPLICATION NUMBER: US/10/530,253
CURRENT FILING DATE: 2005-04-04
PRIOR APPLICATION NUMBER: PCT/US2003/031726
PRIOR FILING DATE: 2003-10-02
PRIOR APPLICATION NUMBER: US 60/415,929
PRIOR FILING DATE: 2002-10-03
NUMBER OF SEQ ID NOS: 65
SOFTWARE: PatentIn version 3.1
SEQ ID NO 16
LENGTH: 149
TYPE: PRT
ORGANISM: Human papillomavirus type 31
US-10-530-253-16
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```
Query Match 74.6%; Score 47; DB 9; Length 149;
Best Local Similarity 75.0%; Pred. No. 2.3;
Matches 6; Conservative 2; Mismatches 0; Indels 0; Gaps 0;
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```
QY 1 WTGRCMSC 8
DB 132 WTGRCIAC 139
```

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RESULT 15
US-10-530-061-584
Sequence 584, Application US/10530061
Publication No. US20060079453A1
GENERAL INFORMATION:
APPLICANT: SIDNEY, JOHN
```

```
APPLICANT: SOUTHWOOD, SCOTT
APPLICANT: SETTE, ALESSANDRO
TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
FILE REFERENCE: 2060.033US02/EKS/M-M
CURRENT APPLICATION NUMBER: US/10/530,061
CURRENT FILING DATE: 2005-04-04
PRIOR APPLICATION NUMBER: PCT/US03/31308
PRIOR FILING DATE: 2003-10-03
PRIOR APPLICATION NUMBER: 60/416,207
PRIOR FILING DATE: 2002-10-03
PRIOR APPLICATION NUMBER: 60/417,269
PRIOR FILING DATE: 2002-10-08
NUMBER OF SEQ ID NOS: 2503
SOFTWARE: PatentIn version 3.3
SEQ ID NO 584
LENGTH: 10
TYPE: PRT
ORGANISM: Human papillomavirus
US-10-530-061-584
```

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Query Match 69.8%; Score 44; DB 9; Length 10;
Best Local Similarity 75.0%; Pred. No. 0.86;
Matches 6; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
```

```
QY 1 WTGRCMSC 8
DB 1 WTGRCSHC 8
```

```
RESULT 16
US-10-530-253-22
Sequence 22, Application US/10530253
Publication No. US20060014926A1
GENERAL INFORMATION:
APPLICANT: Caesetti, Maria C.
APPLICANT: Smith, Larry
APPLICANT: Jeffrey K. Pullen
APPLICANT: Susan P. McElhiney
TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
FILE REFERENCE: 00630/100M137-US2
CURRENT APPLICATION NUMBER: US/10/530,253
CURRENT FILING DATE: 2005-04-04
PRIOR APPLICATION NUMBER: PCT/US2003/031726
PRIOR FILING DATE: 2003-10-02
PRIOR APPLICATION NUMBER: US 60/415,929
PRIOR FILING DATE: 2002-10-03
NUMBER OF SEQ ID NOS: 65
SOFTWARE: PatentIn version 3.1
SEQ ID NO 22
LENGTH: 148
TYPE: PRT
ORGANISM: Human papillomavirus type 52
US-10-530-253-22
```

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Query Match 69.8%; Score 44; DB 9; Length 148;
Best Local Similarity 75.0%; Pred. No. 6.3;
Matches 6; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
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```
QY 1 WTGRCMSC 8
DB 132 WTGRCSHC 139
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```
RESULT 17
US-10-530-061-545
Sequence 545, Application US/10530061
Publication No. US20060079453A1
GENERAL INFORMATION:
APPLICANT: SIDNEY, JOHN
APPLICANT: SOUTHWOOD, SCOTT
APPLICANT: SETTE, ALESSANDRO
TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
FILE REFERENCE: 2060.033US02/EKS/M-M
```

;; CURRENT APPLICATION NUMBER: US/10/530,061
;; CURRENT FILING DATE: 2005-04-04
;; PRIOR APPLICATION NUMBER: PCT/US03/31308
;; PRIOR FILING DATE: 2003-10-03
;; PRIOR APPLICATION NUMBER: 60/416,207
;; PRIOR FILING DATE: 2002-10-03
;; PRIOR APPLICATION NUMBER: 60/417,269
;; PRIOR FILING DATE: 2002-10-08
;; NUMBER OF SEQ ID NOS: 2503
;; SOFTWARE: Patentin version 3.3
;; SEQ ID NO 545
;; LENGTH: 10
;; TYPE: PRF
;; ORGANISM: Human papillomavirus
US-10-530-061-545

Query Match 66.7%; Score 42; DB 9; Length 10;
Best Local Similarity 62.5%; Pred. No. 1.7;
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 WTGRCMSC 8
DB 1 WVGRCIAC 8

RESULT 18
US-10-530-061-602
;; Sequence 602, Application US/10530061
;; Publication No. US20060079453A1
;; GENERAL INFORMATION:
;; APPLICANT: SIDNEY, JOHN
;; APPLICANT: SOUTHWOOD, SCOTT
;; APPLICANT: SETTE, ALESSANDRO
;; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
;; FILE REFERENCE: 2060.03US02/EKS/M-M
;; CURRENT APPLICATION NUMBER: US/10/530,061
;; CURRENT FILING DATE: 2005-04-04
;; PRIOR APPLICATION NUMBER: PCT/US03/31308
;; PRIOR FILING DATE: 2003-10-03
;; PRIOR APPLICATION NUMBER: 60/416,207
;; PRIOR FILING DATE: 2002-10-03
;; PRIOR APPLICATION NUMBER: 60/417,269
;; PRIOR FILING DATE: 2002-10-08
;; NUMBER OF SEQ ID NOS: 2503
;; SOFTWARE: Patentin version 3.3
;; SEQ ID NO 602
;; LENGTH: 10
;; TYPE: PRF
;; ORGANISM: Human papillomavirus
US-10-530-061-602

Query Match 66.7%; Score 42; DB 9; Length 10;
Best Local Similarity 75.0%; Pred. No. 1.7;
Matches 6; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 WTGRCMSC 8
DB 1 WTGRCAVC 8

RESULT 19
US-10-530-253-24
;; Sequence 24, Application US/10530253
;; Publication No. US20060014926A1
;; GENERAL INFORMATION:
;; APPLICANT: Casasetti, Maria C.
;; APPLICANT: Smith, Larry
;; APPLICANT: Jeffrey K. Pullen
;; APPLICANT: Susan P. McElhinney
;; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;; FILE REFERENCE: 00630/100M137-US2
;; CURRENT APPLICATION NUMBER: US/10/530,253
;; CURRENT FILING DATE: 2005-04-04

;; PRIOR APPLICATION NUMBER: PCT/US2003/031726
;; PRIOR FILING DATE: 2003-10-02
;; PRIOR APPLICATION NUMBER: US 60/415,929
;; PRIOR FILING DATE: 2002-10-03
;; NUMBER OF SEQ ID NOS: 65
;; SOFTWARE: Patentin version 3.1
;; SEQ ID NO 24
;; LENGTH: 149
;; TYPE: PRF
;; ORGANISM: Human papillomavirus type 58
US-10-530-253-24

Query Match 66.7%; Score 42; DB 9; Length 149;
Best Local Similarity 75.0%; Pred. No. 12;
Matches 6; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 WTGRCMSC 8
DB 132 WTGRCAVC 139

RESULT 20
US-10-530-061-593
;; Sequence 593, Application US/10530061
;; Publication No. US20060079453A1
;; GENERAL INFORMATION:
;; APPLICANT: SIDNEY, JOHN
;; APPLICANT: SOUTHWOOD, SCOTT
;; APPLICANT: SETTE, ALESSANDRO
;; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
;; FILE REFERENCE: 2060.03US02/EKS/M-M
;; CURRENT APPLICATION NUMBER: US/10/530,061
;; CURRENT FILING DATE: 2005-04-04
;; PRIOR APPLICATION NUMBER: PCT/US03/31308
;; PRIOR FILING DATE: 2003-10-03
;; PRIOR APPLICATION NUMBER: 60/416,207
;; PRIOR FILING DATE: 2002-10-03
;; PRIOR APPLICATION NUMBER: 60/417,269
;; PRIOR FILING DATE: 2002-10-08
;; NUMBER OF SEQ ID NOS: 2503
;; SOFTWARE: Patentin version 3.3
;; SEQ ID NO 593
;; LENGTH: 10
;; TYPE: PRF
;; ORGANISM: Human papillomavirus
US-10-530-061-593

Query Match 65.1%; Score 41; DB 9; Length 10;
Best Local Similarity 62.5%; Pred. No. 2.4;
Matches 5; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 WTGRCMSC 8
DB 1 WTGSCIGC 8

RESULT 21
US-10-530-253-21
;; Sequence 21, Application US/10530253
;; Publication No. US20060014926A1
;; GENERAL INFORMATION:
;; APPLICANT: Casasetti, Maria C.
;; APPLICANT: Smith, Larry
;; APPLICANT: Jeffrey K. Pullen
;; APPLICANT: Susan P. McElhinney
;; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;; FILE REFERENCE: 00630/100M137-US2
;; CURRENT APPLICATION NUMBER: US/10/530,253
;; CURRENT FILING DATE: 2005-04-04
;; PRIOR APPLICATION NUMBER: PCT/US2003/031726
;; PRIOR FILING DATE: 2003-10-02
;; PRIOR APPLICATION NUMBER: US 60/415,929
;; PRIOR FILING DATE: 2002-10-03

NUMBER OF SEQ ID NOS: 65
SOFTWARE: Patentin version 3.1
SEQ ID NO 21
LENGTH: 151
TYPE: PRT
ORGANISM: Human papillomavirus type 51
US-10-530-253-21

Query Match 65.1%; Score 41; DB 9; Length 151;
Best Local Similarity 62.5%; Pred. No. 17;
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 WTGRMSC 8
Db 132 WTGSCANC 139

RESULT 22
US-10-530-253-23
Sequence 23, Application US/10530253
Publication No. US20060014926A1
GENERAL INFORMATION:
APPLICANT: Casaretti, Maria C.
APPLICANT: Smith, Larry
APPLICANT: Jeffrey K. Pullen
APPLICANT: Susan P. McElhinney
TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
FILE REFERENCE: 00630/100M137-US2
CURRENT APPLICATION NUMBER: US/10/530,253
CURRENT FILING DATE: 2005-04-04
PRIOR APPLICATION NUMBER: PCT/US2003/031726
PRIOR FILING DATE: 2003-10-02
PRIOR APPLICATION NUMBER: US 60/415,929
PRIOR FILING DATE: 2002-10-03
NUMBER OF SEQ ID NOS: 65
SOFTWARE: Patentin version 3.1
SEQ ID NO 23
LENGTH: 155
TYPE: PRT
ORGANISM: Human papillomavirus type 56
US-10-530-253-23

Query Match 65.1%; Score 41; DB 9; Length 155;
Best Local Similarity 62.5%; Pred. No. 18;
Matches 5; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 WTGRMSC 8
Db 135 WTGSCLCG 142

RESULT 23
US-10-510-386-58
Sequence 58, Application US/10510386
Publication No. US20050244922A1
GENERAL INFORMATION:
APPLICANT: Andersen, Jens Torne
APPLICANT: Clausen, Ib Groth
APPLICANT: Jorgensen, Steen Troels
APPLICANT: Olsen, Peter Bjarke
APPLICANT: Rasmussen, Michael Dolberg
TITLE OF INVENTION: Improved Bacillus Host Cell
FILE REFERENCE: 10294,204-US
CURRENT APPLICATION NUMBER: US/10/510,386
CURRENT FILING DATE: 2004-10-04
NUMBER OF SEQ ID NOS: 248
SOFTWARE: Patentin version 3.3
SEQ ID NO 58
LENGTH: 296
TYPE: PRT
ORGANISM: Bacillus licheniformis
US-10-510-386-58

Query Match 65.1%; Score 41; DB 9; Length 296;
Best Local Similarity 55.6%; Pred. No. 29;
Matches 5; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY 1 WTGRMSCC 9
Db 237 WKRCFTCC 245

RESULT 24
US-10-530-061-557
Sequence 557, Application US/10530061
Publication No. US20060079453A1
GENERAL INFORMATION:
APPLICANT: SIDNEY, JOHN
APPLICANT: SOUTHWOOD, SCOTT
APPLICANT: SETTE, ALESSANDRO
TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
FILE REFERENCE: 2060.033US02/EKS/M-M
CURRENT APPLICATION NUMBER: US/10/530,061
CURRENT FILING DATE: 2005-04-04
PRIOR APPLICATION NUMBER: PCT/US03/31308
PRIOR FILING DATE: 2003-10-03
PRIOR APPLICATION NUMBER: 60/416,207
PRIOR FILING DATE: 2002-10-03
PRIOR APPLICATION NUMBER: 60/417,269
PRIOR FILING DATE: 2002-10-08
NUMBER OF SEQ ID NOS: 2503
SOFTWARE: Patentin version 3.3
SEQ ID NO 557
LENGTH: 10
TYPE: PRT
ORGANISM: Human papillomavirus
US-10-530-061-557

Query Match 63.5%; Score 40; DB 9; Length 10;
Best Local Similarity 62.5%; Pred. No. 3.3;
Matches 5; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 WTGRMSC 8
Db 1 WVRGCAC 8

RESULT 25
US-10-530-061-558
Sequence 558, Application US/10530061
Publication No. US20060079453A1
GENERAL INFORMATION:
APPLICANT: SIDNEY, JOHN
APPLICANT: SOUTHWOOD, SCOTT
APPLICANT: SETTE, ALESSANDRO
TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
FILE REFERENCE: 2060.033US02/EKS/M-M
CURRENT APPLICATION NUMBER: US/10/530,061
CURRENT FILING DATE: 2005-04-04
PRIOR APPLICATION NUMBER: PCT/US03/31308
PRIOR FILING DATE: 2003-10-03
PRIOR APPLICATION NUMBER: 60/416,207
PRIOR FILING DATE: 2002-10-03
PRIOR APPLICATION NUMBER: 60/417,269
PRIOR FILING DATE: 2002-10-08
NUMBER OF SEQ ID NOS: 2503
SOFTWARE: Patentin version 3.3
SEQ ID NO 558
LENGTH: 10
TYPE: PRT
ORGANISM: Human papillomavirus
US-10-530-061-558

Query Match 63.5%; Score 40; DB 9; Length 10;
Best Local Similarity 62.5%; Pred. No. 3.3;
Matches 5; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Qy 1 WTGRCSMC 8
Db 1 MAGRCAC 8

RESULT 26

US-10-530-253-17
; Sequence 17, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Caesetti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 17
; LENGTH: 149
; TYPE: PRT
; ORGANISM: Human papillomavirus type 33
US-10-530-253-17

Query Match 63.5%; Score 40; DB 9; Length 149;
Best Local Similarity 62.5%; Pred. No. 24;
Matches 5; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Qy 1 WTGRCSMC 8
Db 132 MAGRCAC 139

RESULT 27

US-11-096-568A-1611
; Sequence 1611, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
; APPLICANT: Alexandrov, Nikolai et al.
; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
; FILE REFERENCE: 2750-1592PUS2
; CURRENT APPLICATION NUMBER: US/11/096,568A
; CURRENT FILING DATE: 2005-04-01
; NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 1611
; LENGTH: 182
; TYPE: PRT
; ORGANISM: Zea mays subsp. mays
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)-(182)
; OTHER INFORMATION: Cereb Seq. ID no. 15176142
US-11-096-568A-1611

Query Match 63.5%; Score 40; DB 11; Length 182;
Best Local Similarity 66.7%; Pred. No. 28;
Matches 6; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 1 WTGRCSMC 9
Db 128 WVSRRMSC 136

RESULT 28
US-10-784-004-1172

; Sequence 1172, Application US/10784004
; Publication No. US20060084066A1
; GENERAL INFORMATION:
; APPLICANT: Biogen Idec
; TITLE OF INVENTION: Surrogate Markers of Pain
; FILE REFERENCE: 08201.6029-00000
; CURRENT APPLICATION NUMBER: US/10/784,004
; CURRENT FILING DATE: 2004-02-20
; NUMBER OF SEQ ID NOS: 1251
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 1172
; LENGTH: 426
; TYPE: PRT
; ORGANISM: rat
US-10-784-004-1172

Query Match 63.5%; Score 40; DB 9; Length 426;
Best Local Similarity 55.6%; Pred. No. 52;
Matches 5; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

Qy 1 WTGRCSMC 9
Db 72 WMRCLKKC 80

RESULT 29

US-10-784-004-1220
; Sequence 1220, Application US/10784004
; Publication No. US20060084066A1
; GENERAL INFORMATION:
; APPLICANT: Biogen Idec
; TITLE OF INVENTION: Surrogate Markers of Pain
; FILE REFERENCE: 08201.6029-00000
; CURRENT APPLICATION NUMBER: US/10/784,004
; CURRENT FILING DATE: 2004-02-20
; NUMBER OF SEQ ID NOS: 1251
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 1220
; LENGTH: 476
; TYPE: PRT
; ORGANISM: human
US-10-784-004-1220

Query Match 63.5%; Score 40; DB 9; Length 476;
Best Local Similarity 55.6%; Pred. No. 57;
Matches 5; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

Qy 1 WTGRCSMC 9
Db 143 WMRCLKKC 151

RESULT 30

US-11-079-463-10049
; Sequence 10049, Application US/11079463
; Publication No. US20060073161A1
; GENERAL INFORMATION:
; APPLICANT: Gary L. Breton
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO BACTERIOIDES FRAC
; FILE REFERENCE: PAT00-03DIV2
; CURRENT APPLICATION NUMBER: US/11/079,463
; CURRENT FILING DATE: 2005-03-14
; PRIOR APPLICATION NUMBER: US 60/128,705
; PRIOR FILING DATE: 1999-04-09
; PRIOR APPLICATION NUMBER: US 09/540,209
; PRIOR FILING DATE: 2000-04-04
; NUMBER OF SEQ ID NOS: 10444
; SEQ ID NO 10049
; LENGTH: 462
; TYPE: PRT
; ORGANISM: B. fragilis
US-11-079-463-10049

Query Match 61.9%; Score 39; DB 11; Length 462;
Best Local Similarity 62.5%; Pred. No. 78;
Matches 5; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 WTGRMSC 8
Db 27 WVGKCPSC 34

RESULT 31

US-11-087-099-1786
Sequence 1786, Application US/11087099
Publication No. US20060041961A1
GENERAL INFORMATION:
APPLICANT: Abad, Mark S. et al.
TITLE OF INVENTION: Genes and Uses for Plant Improvement
FILE REFERENCE: 38-21(53450)B BP
CURRENT APPLICATION NUMBER: US/11/087,099
CURRENT FILING DATE: 2005-03-22
NUMBER OF SEQ ID NOS: 12464
SEQ ID NO 1786
LENGTH: 744
TYPE: PRT
ORGANISM: Rhodobacter sphaeroides
US-11-087-099-1786

Query Match 61.9%; Score 39; DB 11; Length 744;
Best Local Similarity 62.5%; Pred. No. 1.1e+02;
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 WTGRMSC 8
Db 340 WTRCVCNC 347

RESULT 32

US-11-139-041-355
Sequence 355, Application US/11139041
Publication No. US20060083749A1
GENERAL INFORMATION:
APPLICANT: Fanger, Gary R.
APPLICANT: Hirst, Shannon Kathleen
APPLICANT: Dillon, Devin C.
APPLICANT: Foy, Teresa M.
APPLICANT: Houghton, Raymond L.
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
FILE REFERENCE: 210121.419C15
CURRENT APPLICATION NUMBER: US/11/139,041
CURRENT FILING DATE: 2005-05-25
PRIOR APPLICATION NUMBER: US 10/079,137
PRIOR FILING DATE: 2002-02-20
PRIOR APPLICATION NUMBER: US 09/924,400
PRIOR FILING DATE: 2001-08-07
PRIOR APPLICATION NUMBER: US 09/810,936
PRIOR FILING DATE: 2001-03-16
PRIOR APPLICATION NUMBER: US 09/699,295
PRIOR FILING DATE: 2000-10-26
PRIOR APPLICATION NUMBER: US 09/590,583
PRIOR FILING DATE: 2000-06-08
PRIOR APPLICATION NUMBER: US 09/577,505
PRIOR FILING DATE: 2000-05-24
PRIOR APPLICATION NUMBER: US 09/534,825
PRIOR FILING DATE: 2000-03-23
PRIOR APPLICATION NUMBER: US 09/429,755
PRIOR FILING DATE: 1999-10-28
PRIOR APPLICATION NUMBER: US 09/289,198
PRIOR FILING DATE: 1999-04-09
PRIOR APPLICATION NUMBER: US 09/062,451
PRIOR FILING DATE: 1998-04-17
Remaining Prior Application data removed - See File Wrapper or PALM.

NUMBER OF SEQ ID NOS: 428
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 355
LENGTH: 20
TYPE: PRT
ORGANISM: Homo sapiens
US-11-139-041-355

Query Match 60.3%; Score 38; DB 11; Length 20;
Best Local Similarity 55.6%; Pred. No. 11;
Matches 5; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 1 WTGRMSCC 9
Db 11 WCCRCFPCC 19

RESULT 33

US-11-139-041-356
Sequence 356, Application US/11139041
Publication No. US20060083749A1
GENERAL INFORMATION:
APPLICANT: Fanger, Gary R.
APPLICANT: Hirst, Shannon Kathleen
APPLICANT: Dillon, Devin C.
APPLICANT: Foy, Teresa M.
APPLICANT: Houghton, Raymond L.
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
FILE REFERENCE: 210121.419C15
CURRENT APPLICATION NUMBER: US/11/139,041
CURRENT FILING DATE: 2005-05-25
PRIOR APPLICATION NUMBER: US 10/079,137
PRIOR FILING DATE: 2002-02-20
PRIOR APPLICATION NUMBER: US 09/924,400
PRIOR FILING DATE: 2001-08-07
PRIOR APPLICATION NUMBER: US 09/810,936
PRIOR FILING DATE: 2001-03-16
PRIOR APPLICATION NUMBER: US 09/699,295
PRIOR FILING DATE: 2000-10-26
PRIOR APPLICATION NUMBER: US 09/590,583
PRIOR FILING DATE: 2000-06-08
PRIOR APPLICATION NUMBER: US 09/577,505
PRIOR FILING DATE: 2000-05-24
PRIOR APPLICATION NUMBER: US 09/534,825
PRIOR FILING DATE: 2000-03-23
PRIOR APPLICATION NUMBER: US 09/429,755
PRIOR FILING DATE: 1999-10-28
PRIOR APPLICATION NUMBER: US 09/289,198
PRIOR FILING DATE: 1999-04-09
PRIOR APPLICATION NUMBER: US 09/062,451
Remaining Prior Application data removed - See File Wrapper or PALM.

US-11-139-041-356
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 356
LENGTH: 20
TYPE: PRT
ORGANISM: Homo sapiens
US-11-139-041-356

Query Match 60.3%; Score 38; DB 11; Length 20;
Best Local Similarity 55.6%; Pred. No. 11;
Matches 5; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 1 WTGRMSCC 9
Db 6 WCCRCFPCC 14

RESULT 34

US-11-139-041-357

```
/ Sequence 357, Application US/11139041
/ Publication No. US20060083749A1
/ GENERAL INFORMATION:
/ APPLICANT: Fanger, Gary R.
/ APPLICANT: Hirst, Shannon Kathleen
/ APPLICANT: Dillon, Davin C.
/ APPLICANT: Foy, Teresa M.
/ APPLICANT: Houghton, Raymond L.
/ APPLICANT: Persing, David H.
/ TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
/ FILE REFERENCE: 210121.419C15
/ CURRENT APPLICATION NUMBER: US/11/139,041
/ PRIOR FILING DATE: 2005-05-25
/ PRIOR APPLICATION NUMBER: US 10/079,137
/ PRIOR FILING DATE: 2002-02-20
/ PRIOR APPLICATION NUMBER: US 09/924,400
/ PRIOR FILING DATE: 2001-08-07
/ PRIOR APPLICATION NUMBER: US 09/810,936
/ PRIOR FILING DATE: 2001-03-16
/ PRIOR APPLICATION NUMBER: US 09/699,295
/ PRIOR FILING DATE: 2000-10-26
/ PRIOR APPLICATION NUMBER: US 09/590,583
/ PRIOR FILING DATE: 2000-06-08
/ PRIOR APPLICATION NUMBER: US 09/577,505
/ PRIOR FILING DATE: 2000-05-24
/ PRIOR APPLICATION NUMBER: US 09/534,825
/ PRIOR FILING DATE: 2000-03-23
/ PRIOR APPLICATION NUMBER: US 09/429,755
/ PRIOR FILING DATE: 1999-10-28
/ PRIOR APPLICATION NUMBER: US 09/289,198
/ PRIOR FILING DATE: 1999-04-09
/ PRIOR APPLICATION NUMBER: US 09/062,451
/ PRIOR FILING DATE: 1998-04-17
/ Remaining Prior Application data removed - See File Wrapper or PALM.
/ NUMBER OF SEQ ID NOS: 428
/ SOFTWARE: FaSeq for Windows Version 4.0
/ SEQ ID NO 357
/ LENGTH: 20
/ TYPE: PRT
/ ORGANISM: Homo sapiens
/ US-11-139-041-357

Query Match      60.3%; Score 38; DB 11; Length 20;
Best Local Similarity 55.6%; Pred. No. 11;
Matches 5; Conservative 0; Mismatches 4; Indels 0; Gaps 0;
```

```
/ PRIOR FILING DATE: 2001-03-16
/ PRIOR APPLICATION NUMBER: US 09/699,295
/ PRIOR FILING DATE: 2000-10-26
/ PRIOR APPLICATION NUMBER: US 09/590,583
/ PRIOR FILING DATE: 2000-06-08
/ PRIOR APPLICATION NUMBER: US 09/577,505
/ PRIOR FILING DATE: 2000-05-24
/ PRIOR APPLICATION NUMBER: US 09/534,825
/ PRIOR FILING DATE: 2000-03-23
/ PRIOR APPLICATION NUMBER: US 09/429,755
/ PRIOR FILING DATE: 1999-10-28
/ PRIOR APPLICATION NUMBER: US 09/289,198
/ PRIOR FILING DATE: 1999-04-09
/ PRIOR APPLICATION NUMBER: US 09/062,451
/ Remaining Prior Application data removed - See File Wrapper or PALM.
/ NUMBER OF SEQ ID NOS: 428
/ SOFTWARE: FaSeq for Windows Version 4.0
/ SEQ ID NO 426
/ LENGTH: 33
/ TYPE: PRT
/ ORGANISM: Homo sapiens
/ US-11-139-041-426

Query Match      60.3%; Score 38; DB 11; Length 33;
Best Local Similarity 55.6%; Pred. No. 16;
Matches 5; Conservative 0; Mismatches 4; Indels 0; Gaps 0;
```

```
QY      1 WTGRCMSCC 9
DB      1 MCCRCFPCC 9

RESULT 35
US-11-139-041-426
/ Sequence 426, Application US/11139041
/ Publication No. US20060083749A1
/ GENERAL INFORMATION:
/ APPLICANT: Fanger, Gary R.
/ APPLICANT: Hirst, Shannon Kathleen
/ APPLICANT: Dillon, Davin C.
/ APPLICANT: Foy, Teresa M.
/ APPLICANT: Houghton, Raymond L.
/ APPLICANT: Persing, David H.
/ TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
/ FILE REFERENCE: 210121.419C15
/ CURRENT APPLICATION NUMBER: US/11/139,041
/ PRIOR FILING DATE: 2005-05-25
/ PRIOR APPLICATION NUMBER: US 10/079,137
/ PRIOR FILING DATE: 2002-02-20
/ PRIOR APPLICATION NUMBER: US 09/924,400
/ PRIOR FILING DATE: 2001-08-07
/ PRIOR APPLICATION NUMBER: US 09/810,936
```

```
US-10-530-253-39
/ Sequence 39, Application US/10530253
/ Publication No. US20060014926A1
/ GENERAL INFORMATION:
/ APPLICANT: Cassetti, Maria C.
/ APPLICANT: Smith, Larry
/ APPLICANT: Jeffrey K. Pullen
/ APPLICANT: Susan P. McElhinney
/ TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
/ FILE REFERENCE: 00630/100M137-US2
/ CURRENT APPLICATION NUMBER: US/10/530,253
/ PRIOR FILING DATE: 2005-04-04
/ PRIOR APPLICATION NUMBER: PCT/US2003/031726
/ PRIOR FILING DATE: 2003-10-02
/ PRIOR APPLICATION NUMBER: US 60/415,929
/ PRIOR FILING DATE: 2002-10-03
/ NUMBER OF SEQ ID NOS: 65
/ SOFTWARE: PatentIn version 3.1
/ SEQ ID NO 39
/ LENGTH: 152
/ TYPE: PRT
/ ORGANISM: Human papillomavirus
/ NAME/KEY: MISC_FEATURE
/ LOCATION: (1)..(152)
/ OTHER INFORMATION: where Xaa is any amino acid
/ US-10-530-253-39

Query Match      60.3%; Score 38; DB 9; Length 152;
Best Local Similarity 62.5%; Pred. No. 48;
Matches 5; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
```

```
Sequence 304, Application US/11139041
Publication No. US20060083749A1
GENERAL INFORMATION:
APPLICANT: Fanger, Gary R.
APPLICANT: Hirst, Shannon Kathleen
APPLICANT: Dillon, Davin C.
APPLICANT: Foy, Teresa M.
APPLICANT: Houghton, Raymond L.
APPLICANT: Persing, David H.
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
FILE REFERENCE: 210121.419C15
CURRENT FILING DATE: 2005-05-25
PRIOR APPLICATION NUMBER: US 10/079,137
PRIOR FILING DATE: 2002-02-20
PRIOR APPLICATION NUMBER: US 09/924,400
PRIOR FILING DATE: 2001-08-07
PRIOR APPLICATION NUMBER: US 09/810,936
PRIOR FILING DATE: 2001-03-16
PRIOR APPLICATION NUMBER: US 09/699,295
PRIOR FILING DATE: 2000-10-26
PRIOR APPLICATION NUMBER: US 09/590,583
PRIOR FILING DATE: 2000-06-08
PRIOR APPLICATION NUMBER: US 09/577,505
PRIOR FILING DATE: 2000-05-24
PRIOR APPLICATION NUMBER: US 09/534,825
PRIOR FILING DATE: 2000-03-23
PRIOR APPLICATION NUMBER: US 09/429,755
PRIOR FILING DATE: 1999-10-28
PRIOR APPLICATION NUMBER: US 09/289,198
PRIOR FILING DATE: 1999-04-09
PRIOR APPLICATION NUMBER: US 09/062,451
PRIOR FILING DATE: 1998-04-17
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 428
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 304
LENGTH: 384
TYPE: PRT
ORGANISM: Homo sapiens
US-11-139-041-304

Query Match      60.3%; Score 38; DB 11; Length 384;
Best Local Similarity 55.6%; Pred. No. 95;
Matches 5; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

Cy 1 WTGRMSCC 9
Db 27 WCCRCFPCC 35

RESULT 38
US-11-139-041-334
Sequence 334, Application US/11139041
Publication No. US20060083749A1
GENERAL INFORMATION:
APPLICANT: Fanger, Gary R.
APPLICANT: Hirst, Shannon Kathleen
APPLICANT: Dillon, Davin C.
APPLICANT: Foy, Teresa M.
APPLICANT: Houghton, Raymond L.
APPLICANT: Persing, David H.
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
FILE REFERENCE: 210121.419C15
CURRENT FILING DATE: 2005-05-25
PRIOR APPLICATION NUMBER: US 10/079,137
PRIOR FILING DATE: 2002-02-20
PRIOR APPLICATION NUMBER: US 09/924,400
PRIOR FILING DATE: 2001-08-07
PRIOR APPLICATION NUMBER: US 09/810,936
PRIOR FILING DATE: 2001-03-16
PRIOR APPLICATION NUMBER: US 09/699,295
PRIOR FILING DATE: 2000-10-26
PRIOR APPLICATION NUMBER: US 09/590,583
PRIOR FILING DATE: 2000-06-08
PRIOR APPLICATION NUMBER: US 09/577,505
PRIOR FILING DATE: 2000-03-23
PRIOR APPLICATION NUMBER: US 09/429,755
PRIOR FILING DATE: 1999-10-28
PRIOR APPLICATION NUMBER: US 09/289,198
PRIOR FILING DATE: 1999-04-09
PRIOR APPLICATION NUMBER: US 09/062,451
PRIOR FILING DATE: 1998-04-17
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 428
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 334
```

```
PRIOR FILING DATE: 2001-03-16
PRIOR APPLICATION NUMBER: US 09/699,295
PRIOR FILING DATE: 2000-10-26
PRIOR APPLICATION NUMBER: US 09/590,583
PRIOR FILING DATE: 2000-06-08
PRIOR APPLICATION NUMBER: US 09/577,505
PRIOR FILING DATE: 2000-05-24
PRIOR APPLICATION NUMBER: US 09/534,825
PRIOR FILING DATE: 2000-03-23
PRIOR APPLICATION NUMBER: US 09/429,755
PRIOR FILING DATE: 1999-10-28
PRIOR APPLICATION NUMBER: US 09/289,198
PRIOR FILING DATE: 1999-04-09
PRIOR APPLICATION NUMBER: US 09/062,451
PRIOR FILING DATE: 1998-04-17
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 428
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 334

US-11-139-041-334

Query Match      60.3%; Score 38; DB 11; Length 384;
Best Local Similarity 55.6%; Pred. No. 95;
Matches 5; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

Cy 1 WTGRMSCC 9
Db 27 WCCRCFPCC 35

RESULT 39
US-11-139-041-336
Sequence 336, Application US/11139041
Publication No. US20060083749A1
GENERAL INFORMATION:
APPLICANT: Fanger, Gary R.
APPLICANT: Hirst, Shannon Kathleen
APPLICANT: Dillon, Davin C.
APPLICANT: Foy, Teresa M.
APPLICANT: Houghton, Raymond L.
APPLICANT: Persing, David H.
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
FILE REFERENCE: 210121.419C15
CURRENT FILING DATE: 2005-05-25
PRIOR APPLICATION NUMBER: US 11/139,041
PRIOR FILING DATE: 2005-05-25
PRIOR APPLICATION NUMBER: US 10/079,137
PRIOR FILING DATE: 2002-02-20
PRIOR APPLICATION NUMBER: US 09/924,400
PRIOR FILING DATE: 2001-08-07
PRIOR APPLICATION NUMBER: US 09/810,936
PRIOR FILING DATE: 2001-03-16
PRIOR APPLICATION NUMBER: US 09/699,295
PRIOR FILING DATE: 2000-10-26
PRIOR APPLICATION NUMBER: US 09/590,583
PRIOR FILING DATE: 2000-06-08
PRIOR APPLICATION NUMBER: US 09/577,505
PRIOR FILING DATE: 2000-05-24
PRIOR APPLICATION NUMBER: US 09/534,825
PRIOR FILING DATE: 2000-03-23
PRIOR APPLICATION NUMBER: US 09/429,755
PRIOR FILING DATE: 1999-10-28
PRIOR APPLICATION NUMBER: US 09/289,198
PRIOR FILING DATE: 1999-04-09
PRIOR APPLICATION NUMBER: US 09/062,451
PRIOR FILING DATE: 1998-04-17
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 428
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 336
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LENGTH: 394
TYPE: PRT
ORGANISM: Homo sapiens
US-11-139-041-336

Query Match 60.3%; Score 38; DB 11; Length 394;
Best Local Similarity 55.6%; Pred. No. 97;
Matches 5; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 1 WTGRCSGCC 9
Db 27 MCCRCFPCC 35

RESULT 40
US-11-139-041-324
Sequence 324, Application US/11139041
Publication No. US20060083749A1
GENERAL INFORMATION:
APPLICANT: Fanger, Gary R.
APPLICANT: Hirst, Shannon Kathleen
APPLICANT: Dillon, Davin C.
APPLICANT: Foy, Teresa M.
APPLICANT: Houghton, Raymond L.
APPLICANT: Persing, David H.
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
FILE REFERENCE: 210121.419C15
CURRENT APPLICATION NUMBER: US/11/139, 041
CURRENT FILING DATE: 2005-05-25
PRIOR APPLICATION NUMBER: US 10/079,137
PRIOR FILING DATE: 2002-02-20
PRIOR APPLICATION NUMBER: US 09/924,400
PRIOR FILING DATE: 2001-08-07
PRIOR APPLICATION NUMBER: US 09/810,936
PRIOR FILING DATE: 2001-03-16
PRIOR APPLICATION NUMBER: US 09/699,295
PRIOR FILING DATE: 2000-10-26
PRIOR APPLICATION NUMBER: US 09/590,583
PRIOR FILING DATE: 2000-06-08
PRIOR APPLICATION NUMBER: US 09/577,505
PRIOR FILING DATE: 2000-05-24
PRIOR APPLICATION NUMBER: US 09/534,825
PRIOR FILING DATE: 2000-03-23
PRIOR APPLICATION NUMBER: US 09/429,755
PRIOR FILING DATE: 1999-10-28
PRIOR APPLICATION NUMBER: US 09/289,198
PRIOR FILING DATE: 1999-04-09
PRIOR APPLICATION NUMBER: US 09/062,451
PRIOR FILING DATE: 1998-04-17
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 428
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 324
LENGTH: 529
TYPE: PRT
ORGANISM: Homo sapiens
US-11-139-041-324

Query Match 60.3%; Score 38; DB 11; Length 529;
Best Local Similarity 55.6%; Pred. No. 1,2e+02;
Matches 5; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 1 WTGRCSGCC 9
Db 172 MCCRCFPCC 180

RESULT 41
US-11-234-786-379
Sequence 379, Application US/11234786
Publication No. US20060024301A1
GENERAL INFORMATION:

APPLICANT: Xu, Jiangchun
APPLICANT: Dillon, Davin C.
APPLICANT: Mitcham, Jennifer L.
APPLICANT: Harlocker, Susan L.
APPLICANT: Jiang, Yugu
APPLICANT: Reed, Steven G.
APPLICANT: Kalos, Michael D.
APPLICANT: Fanger, Gary R.
APPLICANT: Retter, Marc W.
APPLICANT: Stolk, John A.
APPLICANT: Day, Craig H.
APPLICANT: Vedvick, Thomas S.
APPLICANT: Carter, Derrick
APPLICANT: Li, Samuel X.
APPLICANT: Wang, Aijun
APPLICANT: Skelky, Yasir A.
TITLE OF INVENTION: PROSTATE-SPECIFIC POLYPEPTIDES AND FUSION
FILE REFERENCE: 210121.427C31
CURRENT APPLICATION NUMBER: US/11/234,786
CURRENT FILING DATE: 2005-09-23
PRIOR APPLICATION NUMBER: US 09/568,857
PRIOR FILING DATE: 2000-05-09
PRIOR APPLICATION NUMBER: US 09/536,857
PRIOR FILING DATE: 2000-05-27
PRIOR APPLICATION NUMBER: US 09/483,672
PRIOR FILING DATE: 2000-01-14
PRIOR APPLICATION NUMBER: US 09/439,313
PRIOR FILING DATE: 1999-11-12
PRIOR APPLICATION NUMBER: US 09/352,616
PRIOR FILING DATE: 1999-07-13
PRIOR APPLICATION NUMBER: US 09/288,946
PRIOR FILING DATE: 1999-04-09
PRIOR APPLICATION NUMBER: US 09/232,149
PRIOR FILING DATE: 1999-01-15
PRIOR APPLICATION NUMBER: US 09/159,812
PRIOR FILING DATE: 1998-09-23
PRIOR APPLICATION NUMBER: US 09/115,453
PRIOR FILING DATE: 1998-07-14
PRIOR APPLICATION NUMBER: US 09/030,607
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 701
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 379
LENGTH: 656
TYPE: PRT
ORGANISM: Homo sapien
US-11-234-786-379

Query Match 60.3%; Score 38; DB 11; Length 656;
Best Local Similarity 55.6%; Pred. No. 1.4e+02;
Matches 5; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 1 WTGRCSGCC 9
Db 27 MCCRCFPCC 35

RESULT 42
US-11-139-041-305
Sequence 305, Application US/11139041
Publication No. US20060083749A1
GENERAL INFORMATION:
APPLICANT: Fanger, Gary R.
APPLICANT: Hirst, Shannon Kathleen
APPLICANT: Dillon, Davin C.
APPLICANT: Foy, Teresa M.
APPLICANT: Houghton, Raymond L.
APPLICANT: Persing, David H.
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
FILE REFERENCE: 210121.419C15


```

CURRENT APPLICATION NUMBER: US/11/139,041
CURRENT FILING DATE: 2005-05-25
PRIOR APPLICATION NUMBER: US 10/079,137
PRIOR FILING DATE: 2002-02-20
PRIOR APPLICATION NUMBER: US 09/924,400
PRIOR FILING DATE: 2001-08-07
PRIOR APPLICATION NUMBER: US 09/810,936
PRIOR FILING DATE: 2001-03-16
PRIOR APPLICATION NUMBER: US 09/699,295
PRIOR FILING DATE: 2000-10-26
PRIOR APPLICATION NUMBER: US 09/590,583
PRIOR FILING DATE: 2000-06-08
PRIOR APPLICATION NUMBER: US 09/577,505
PRIOR FILING DATE: 2000-05-24
PRIOR APPLICATION NUMBER: US 09/534,825
PRIOR FILING DATE: 2000-03-23
PRIOR APPLICATION NUMBER: US 09/429,755
PRIOR FILING DATE: 1999-10-28
PRIOR APPLICATION NUMBER: US 09/289,198
PRIOR FILING DATE: 1999-04-09
PRIOR APPLICATION NUMBER: US 09/062,451
PRIOR FILING DATE: 1998-04-17
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 428
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 305
LENGTH: 656
TYPE: PRT
ORGANISM: Homo sapiens
US-11-139-041-305

Query Match          60.3%; Score 38; DB 11; Length 656;
Best Local Similarity 55.6%; Pred. No. 1.4e+02;
Matches 5; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 1 WTGRCSGCC 9
Db 27 MCCRCFPCC 35

RESULT 43
US-11-234-786-380
Sequence 380, Application US/11234786
Publication No. US20060024301A1
GENERAL INFORMATION:
APPLICANT: Xu, Jiangchun
APPLICANT: Dillon, Devin C.
APPLICANT: Mitcham, Jennifer L.
APPLICANT: Harlocker, Susan L.
APPLICANT: Jiang, Yugu
APPLICANT: Reed, Steven G.
APPLICANT: Kalos, Michael D.
APPLICANT: Fanger, Gary R.
APPLICANT: Retter, Marc W.
APPLICANT: Stolk, John A.
APPLICANT: Day, Craig H.
APPLICANT: Vedwick, Thomas S.
APPLICANT: Carter, Darick
APPLICANT: Li, Samuel X.
APPLICANT: Wang, Aijun
APPLICANT: Skeiky, Yasir A.
TITLE OF INVENTION: PROSTATE-SPECIFIC POLYPEPTIDES AND FUSION
TITLE OF INVENTION: POLYPEPTIDES THEREOF
FILE REFERENCE: 210121.427C31
CURRENT APPLICATION NUMBER: US/11/234,786
CURRENT FILING DATE: 2005-09-23
PRIOR APPLICATION NUMBER: US 09/568,857
PRIOR FILING DATE: 2000-05-09
PRIOR APPLICATION NUMBER: US 09/536,857
PRIOR FILING DATE: 2000-05-27
PRIOR APPLICATION NUMBER: US 09/483,672
PRIOR FILING DATE: 2000-01-14
PRIOR APPLICATION NUMBER: US 09/439,313
```

```

PRIOR FILING DATE: 1999-11-12
PRIOR APPLICATION NUMBER: US 09/352,616
PRIOR FILING DATE: 1999-07-13
PRIOR APPLICATION NUMBER: US 09/288,946
PRIOR FILING DATE: 1999-04-09
PRIOR APPLICATION NUMBER: US 09/232,149
PRIOR FILING DATE: 1999-01-15
PRIOR APPLICATION NUMBER: US 09/159,812
PRIOR FILING DATE: 1998-09-23
PRIOR APPLICATION NUMBER: US 09/115,453
PRIOR FILING DATE: 1998-07-14
PRIOR APPLICATION NUMBER: US 09/030,607
PRIOR FILING DATE: 1998-02-25
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 701
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 360
LENGTH: 671
TYPE: PRT
ORGANISM: Homo sapien
US-11-234-786-380

Query Match          60.3%; Score 38; DB 11; Length 671;
Best Local Similarity 55.6%; Pred. No. 1.4e+02;
Matches 5; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 1 WTGRCSGCC 9
Db 27 MCCRCFPCC 35

RESULT 44
US-11-139-041-306
Sequence 306, Application US/11139041
Publication No. US20060083749A1
GENERAL INFORMATION:
APPLICANT: Fanger, Gary R.
APPLICANT: Hirst, Shannon Kathleen
APPLICANT: Dillon, Devin C.
APPLICANT: Foy, Teresa M.
APPLICANT: Houghton, Raymond L.
APPLICANT: Persing, David H.
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
TITLE OF INVENTION: AND DIAGNOSIS OF BREAST CANCER
FILE REFERENCE: 210121.419C15
CURRENT APPLICATION NUMBER: US/11/139,041
CURRENT FILING DATE: 2005-05-25
PRIOR APPLICATION NUMBER: US 10/079,137
PRIOR FILING DATE: 2002-02-20
PRIOR APPLICATION NUMBER: US 09/924,400
PRIOR FILING DATE: 2001-08-07
PRIOR APPLICATION NUMBER: US 09/810,936
PRIOR FILING DATE: 2001-03-16
PRIOR APPLICATION NUMBER: US 09/699,295
PRIOR FILING DATE: 2000-10-26
PRIOR APPLICATION NUMBER: US 09/590,583
PRIOR FILING DATE: 2000-06-08
PRIOR APPLICATION NUMBER: US 09/577,505
PRIOR FILING DATE: 2000-05-24
PRIOR APPLICATION NUMBER: US 09/534,825
PRIOR FILING DATE: 2000-03-23
PRIOR APPLICATION NUMBER: US 09/429,755
PRIOR FILING DATE: 1999-10-28
PRIOR APPLICATION NUMBER: US 09/289,198
PRIOR FILING DATE: 1999-04-09
PRIOR APPLICATION NUMBER: US 09/062,451
PRIOR FILING DATE: 1998-04-17
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 428
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 306
LENGTH: 671
TYPE: PRT
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ORGANISM: Homo sapiens
US-11-139-041-306

Query Match 60.3%; Score 38; DB 11; Length 671;
Best Local Similarity 55.6%; Pred. No. 1.4e+02;
Matches 5; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 1 WTGRCSGCC 9
DB 27 WCCRCPPCC 35

RESULT 45

US-11-096-568A-14789
Sequence 14789, Application US/11096568A
Publication No. US20060048240A1
GENERAL INFORMATION:
APPLICANT: Alexandrov, Nickolai et al.
TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
FILE REFERENCE: 2750-1592PUS2
CURRENT APPLICATION NUMBER: US/11/096,568A
CURRENT FILING DATE: 2005-04-01
NUMBER OF SEQ ID NOS: 34471
SEQ ID NO 14789
LENGTH: 961
TYPE: PRT
ORGANISM: Zea mays subsp. mays
FEATURE:
NAME/KEY: misc feature
LOCATION: (1)..(961)
OTHER INFORMATION: Cereas Seq. ID no. 11398588
US-11-096-568A-14789

Query Match 60.3%; Score 38; DB 11; Length 961;
Best Local Similarity 55.6%; Pred. No. 1.9e+02;
Matches 5; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY 1 WTGRCSGCC 9
DB 533 WPKWCLSCC 541

RESULT 46
US-11-096-568A-14788
Sequence 14788, Application US/11096568A
Publication No. US20060048240A1
GENERAL INFORMATION:
APPLICANT: Alexandrov, Nickolai et al.
TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
FILE REFERENCE: 2750-1592PUS2
CURRENT APPLICATION NUMBER: US/11/096,568A
CURRENT FILING DATE: 2005-04-01
NUMBER OF SEQ ID NOS: 34471
SEQ ID NO 14788
LENGTH: 1094
TYPE: PRT
ORGANISM: Zea mays subsp. mays
FEATURE:
NAME/KEY: misc feature
LOCATION: (1)..(1094)
OTHER INFORMATION: Cereas Seq. ID no. 11398587
US-11-096-568A-14788

Query Match 60.3%; Score 38; DB 11; Length 1094;
Best Local Similarity 55.6%; Pred. No. 2e+02;
Matches 5; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY 1 WTGRCSGCC 9
DB 666 WPKWCLSCC 674

RESULT 47

US-11-142-700-8
Sequence 8, Application US/11142700
Publication No. US20060026721A1
GENERAL INFORMATION:
APPLICANT: Stephen M. Allen
APPLICANT: Gary M. Fader
APPLICANT: Saverio Carl Falco
APPLICANT: Anthony J. Kinney
APPLICANT: Jonathan E. Lightner
APPLICANT: Guo-Hua Miao
APPLICANT: J. Antoni Rafalski
APPLICANT: Catherine J. Thorpe
TITLE OF INVENTION: Plant Cellulose Synthases
FILE REFERENCE: BB-1170
CURRENT APPLICATION NUMBER: US/11/142,700
CURRENT FILING DATE: 2005-06-01
PRIOR APPLICATION NUMBER: US/09/720,383
PRIOR FILING DATE: 2000-12-21
PRIOR APPLICATION NUMBER: 60/092,844
PRIOR FILING DATE: 1998-07-14
NUMBER OF SEQ ID NOS: 29
SOFTWARE: Microsoft Office 97
SEQ ID NO 8
LENGTH: 1165
TYPE: PRT
ORGANISM: Zea mays
US-11-142-700-8

Query Match 60.3%; Score 38; DB 11; Length 1165;
Best Local Similarity 55.6%; Pred. No. 2.1e+02;
Matches 5; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY 1 WTGRCSGCC 9
DB 737 WPKWCLSCC 745

RESULT 48
US-11-096-568A-14787
Sequence 14787, Application US/11096568A
Publication No. US20060048240A1
GENERAL INFORMATION:
APPLICANT: Alexandrov, Nickolai et al.
TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
FILE REFERENCE: 2750-1592PUS2
CURRENT APPLICATION NUMBER: US/11/096,568A
CURRENT FILING DATE: 2005-04-01
NUMBER OF SEQ ID NOS: 34471
SEQ ID NO 14787
LENGTH: 1165
TYPE: PRT
ORGANISM: Zea mays subsp. mays
FEATURE:
NAME/KEY: misc feature
LOCATION: (1)..(1165)
OTHER INFORMATION: Cereas Seq. ID no. 11398586
US-11-096-568A-14787

Query Match 60.3%; Score 38; DB 11; Length 1165;
Best Local Similarity 55.6%; Pred. No. 2.1e+02;
Matches 5; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY 1 WTGRCSGCC 9
DB 737 WPKWCLSCC 745

RESULT 49
US-11-234-786-378
Sequence 378, Application US/11234786

```

; Publication No. US2006024301A1
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Dillon, Devin C.
; APPLICANT: Mitcham, Jennifer L.
; APPLICANT: Harlocker, Susan L.
; APPLICANT: Jiang, Yugu
; APPLICANT: Reed, Steven G.
; APPLICANT: Kalos, Michael D.
; APPLICANT: Fanger, Gary R.
; APPLICANT: Retter, Marc W.
; APPLICANT: Stolk, John A.
; APPLICANT: Day, Craig H.
; APPLICANT: Vedvick, Thomas S.
; APPLICANT: Carter, Darick
; APPLICANT: Li, Samuel X.
; APPLICANT: Wang, Aijun
; APPLICANT: Skeiky, Yaser A.
; TITLE OF INVENTION: PROSTATE-SPECIFIC POLYPEPTIDES AND FUSION
; FILE REFERENCE: 210121.427C31
; CURRENT APPLICATION NUMBER: US/11/234,786
; CURRENT FILING DATE: 2005-09-23
; PRIOR APPLICATION NUMBER: US 09/568,857
; PRIOR FILING DATE: 2000-05-09
; PRIOR APPLICATION NUMBER: US 09/536,857
; PRIOR FILING DATE: 2000-05-27
; PRIOR APPLICATION NUMBER: US 09/483,672
; PRIOR FILING DATE: 2000-01-14
; PRIOR APPLICATION NUMBER: US 09/439,313
; PRIOR FILING DATE: 1999-11-12
; PRIOR APPLICATION NUMBER: US 09/352,616
; PRIOR FILING DATE: 1999-07-13
; PRIOR APPLICATION NUMBER: US 09/288,946
; PRIOR FILING DATE: 1999-04-09
; PRIOR APPLICATION NUMBER: US 09/232,149
; PRIOR FILING DATE: 1999-01-15
; PRIOR APPLICATION NUMBER: US 09/159,812
; PRIOR FILING DATE: 1998-09-23
; PRIOR APPLICATION NUMBER: US 09/115,453
; PRIOR FILING DATE: 1998-07-14
; PRIOR APPLICATION NUMBER: US 09/030,607
; PRIOR FILING DATE: 1998-02-25
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 701
; SOFTWARE: FastSeq for Windows Version 3.0.
; SEQ ID NO 378
; LENGTH: 1719
; TYPE: PRT
; ORGANISM: Homo sapien
US-11-234-786-378

Query Match      60.3%; Score 38; DB 11; Length 1719;
Best Local Similarity 55.6%; Pred. No. 2.9e+02;
Matches 5; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY      1 WTGRMSCC 9
DB      27 WCCRCFPCC 35

RESULT 50
US-10-530-061-583
; Sequence 583, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.033US02/EKS/W-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; CURRENT FILING DATE: 2005-04-04

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; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 583
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-583

Query Match      58.7%; Score 37; DB 9; Length 10;
Best Local Similarity 62.5%; Pred. No. 9;
Matches 5; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY      1 WTGRMSCC 8
DB      1 WFCRCSEC 8

Search completed: May 5, 2006, 08:18:45
Job time : 10.4 secs

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OM protein - protein search, using SW model

Run on: May 5, 2006, 03:13:35 ; Search time 21 Seconds
(Without alignments)
35.432 Million cell updates/sec

Title: US-08-170-344-37
Perfect score: 50
Sequence: 1 MSCCRSSRT 9

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 572060 seqs, 82675679 residues

Total number of hits satisfying chosen parameters: 572060

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 1000 summaries

Database :
1: /cgn2_6/ptodata/1/1aa/5-COMB.pep.*
2: /cgn2_6/ptodata/1/1aa/6-COMB.pep.*
3: /cgn2_6/ptodata/1/1aa/H-COMB.pep.*
4: /cgn2_6/ptodata/1/1aa/PCYTUS-COMB.pep.*
5: /cgn2_6/ptodata/1/1aa/RE-COMB.pep.*
6: /cgn2_6/ptodata/1/1aa/backfile1.pep.*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	50	100.0	21	1	US-08-934-915-167
2	50	100.0	151	2	US-09-701-080C-18
3	50	100.0	158	1	US-09-980-523A-2
4	50	100.0	162	1	US-08-316-239B-3
5	50	100.0	162	1	US-08-316-239B-4
6	50	100.0	172	2	US-08-860-165-12
7	50	100.0	172	2	US-09-359-382-12
8	50	100.0	243	2	US-09-462-993-1
9	50	100.0	266	2	US-08-860-165-10
10	50	100.0	266	2	US-09-359-382-10
11	50	100.0	266	2	US-09-367-309A-1
12	50	100.0	273	2	US-09-485-885-4
13	50	100.0	292	2	US-09-485-885-10
14	50	100.0	371	2	US-09-485-885-6
15	50	100.0	390	2	US-09-485-885-14
16	38	76.0	113	2	US-09-252-991A-29076
17	37	74.0	207	2	US-09-270-767-33689
18	37	74.0	207	2	US-09-270-767-47906
19	36	72.0	136	2	US-09-252-991A-21156
20	36	72.0	230	2	US-09-252-991A-33122
21	36	72.0	953	2	US-09-252-991A-30039
22	36	72.0	1905	2	US-09-964-956-44
23	35	70.0	44	2	US-09-270-767-56297
24	35	70.0	47	1	US-08-660-789-6
25	35	70.0	47	2	US-09-074-114-6
26	35	70.0	87	2	US-09-252-991A-25071
27	35	70.0	109	2	US-09-252-991A-29444

28	35	70.0	140	2	US-09-270-767-35721	Sequence 35721, A
29	35	70.0	140	2	US-09-270-767-50938	Sequence 50938, A
30	35	70.0	147	2	US-09-252-991A-17724	Sequence 17724, A
31	35	70.0	168	2	US-09-252-991A-32502	Sequence 32502, A
32	35	70.0	214	2	US-09-270-767-42972	Sequence 42972, A
33	35	70.0	654	2	US-09-252-991A-20916	Sequence 20916, A
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35	34	68.0	31	2	US-09-894-882-360	Sequence 360, App
36	34	68.0	31	2	US-09-894-882-363	Sequence 363, App
37	34	68.0	31	2	US-09-894-882-479	Sequence 479, App
38	34	68.0	31	2	US-09-894-882-480	Sequence 480, App
39	34	68.0	70	2	US-09-894-882-359	Sequence 359, App
40	34	68.0	70	2	US-09-894-882-362	Sequence 362, App
41	34	68.0	101	2	US-09-270-767-50469	Sequence 50469, A
42	34	68.0	101	2	US-09-252-991A-22015	Sequence 22015, A
43	34	68.0	120	2	US-09-252-991A-19432	Sequence 12930, A
44	34	68.0	138	2	US-09-489-039A-12930	Sequence 20461, A
45	34	68.0	146	2	US-09-252-991A-20461	Sequence 25612, A
46	34	68.0	154	2	US-09-252-991A-25612	Sequence 381, App
47	34	68.0	171	2	US-08-311-731A-381	Sequence 18885, A
48	34	68.0	179	2	US-09-252-991A-18885	Sequence 19432, A
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53	34	68.0	1698	2	US-09-315-793-12	Sequence 569, App
54	33	66.0	38	2	US-08-469-260A-569	Sequence 569, App
55	33	66.0	38	2	US-08-469-260A-569	Sequence 569, App
56	33	66.0	38	2	US-08-467-344A-569	Sequence 569, App
57	33	66.0	38	2	US-08-424-550B-569	Sequence 4382, App
58	33	66.0	67	2	US-09-543-681A-4382	Sequence 19766, A
59	33	66.0	70	2	US-09-252-991A-19766	Sequence 4185, App
60	33	66.0	74	2	US-09-543-681A-4185	Sequence 30716, A
61	33	66.0	107	2	US-09-252-991A-30716	Sequence 2856, A
62	33	66.0	127	2	US-09-252-991A-25856	Sequence 72, Appl
63	33	66.0	141	2	US-10-141-645-72	Sequence 72, Appl
64	33	66.0	141	2	US-10-141-645-72	Sequence 28600, A
65	33	66.0	142	2	US-09-252-991A-28600	Sequence 30960, A
66	33	66.0	154	2	US-09-252-991A-30960	Sequence 31552, A
67	33	66.0	164	2	US-09-252-991A-31552	Sequence 20624, A
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83	32	64.0	45	1	US-08-824-382-1	Sequence 1, Appl1
84	32	64.0	45	1	US-08-824-382-2	Sequence 189, App
85	32	64.0	45	1	US-09-674-973A-189	Sequence 191, App
86	32	64.0	45	1	US-09-674-973A-191	Sequence 197, App
87	32	64.0	94	2	US-09-674-973A-192	Sequence 33030, A
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92	32	64.0	135	2	US-09-252-991A-32632	Sequence 36771, A
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94	32	64.0	156	2	US-09-270-767-16971	Sequence 13, Appl
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109	32	64.0	249	2	US-09-252-991A-28972	Sequence 28972, A	182	31	62.0	235	2	US-09-988-292A-4	Sequence 4, Appl1
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111	32	64.0	257	2	US-09-270-767-46892	Sequence 46892, A	184	31	62.0	245	2	US-09-252-991A-30321	Sequence 30321, A
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117	32	64.0	346	2	US-09-990-444-197	Sequence 197, App	190	31	62.0	341	2	US-09-252-991A-28938	Sequence 28938, A
118	32	64.0	346	2	US-09-997-333-197	Sequence 197, App	191	31	62.0	371	2	US-09-636-215-708	Sequence 708, App
119	32	64.0	346	2	US-09-992-598-197	Sequence 197, App	192	31	62.0	371	2	US-09-685-166A-708	Sequence 708, App
120	32	64.0	374	2	US-09-252-991A-29999	Sequence 29999, A	193	31	62.0	371	2	US-09-679-426-708	Sequence 708, App
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122	32	64.0	375	2	US-10-318-142-2	Sequence 2, Appl1	195	31	62.0	371	2	US-09-651-236-708	Sequence 708, App
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139	31	62.0	45	1	US-08-824-382-3	Sequence 3, Appl1	212	31	62.0	490	2	US-09-630-751-4	Sequence 4, Appl1
140	31	62.0	56	2	US-09-439-313-564	Sequence 564, App	213	31	62.0	517	2	US-09-538-092-851	Sequence 851, App
141	31	62.0	58	2	US-09-439-313-547	Sequence 547, App	214	31	62.0	517	2	US-09-538-092-1047	Sequence 1047, Ap
142	31	62.0	58	2	US-09-636-215-547	Sequence 547, App	215	31	62.0	520	2	US-09-949-016-10653	Sequence 10653, A
143	31	62.0	58	2	US-09-685-166A-547	Sequence 547, App	216	31	62.0	534	2	US-09-344-882-24	Sequence 24, Appl
144	31	62.0	58	2	US-09-679-426-547	Sequence 547, App	217	31	62.0	534	2	US-10-293-865-24	Sequence 24, Appl
145	31	62.0	58	2	US-09-759-143-547	Sequence 547, App	218	31	62.0	538	2	US-09-344-882-20	Sequence 20, Appl
146	31	62.0	58	2	US-09-651-236-547	Sequence 547, App	219	31	62.0	538	2	US-10-293-865-20	Sequence 20, Appl
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148	31	62.0	78	2	US-10-012-896-547	Sequence 547, App	221	31	62.0	553	2	US-09-020-956-113	Sequence 113, App
149	31	62.0	82	2	US-09-252-991A-30290	Sequence 30290, A	222	31	62.0	553	2	US-09-636-215-113	Sequence 113, App
150	31	62.0	82	2	US-09-513-999C-5888	Sequence 5888, Ap	223	31	62.0	553	2	US-09-439-313-113	Sequence 113, App
151	31	62.0	88	2	US-09-555-352-23	Sequence 23, Appl	224	31	62.0	553	2	US-09-352-616A-113	Sequence 113, App
152	31	62.0	95	2	US-09-252-991A-28504	Sequence 28504, A	225	31	62.0	553	2	US-09-602-877A-101	Sequence 101, App
153	31	62.0	102	2	US-09-252-991A-28085	Sequence 28085, A	226	31	62.0	553	2	US-09-332-149A-113	Sequence 113, App
154	31	62.0	109	2	US-09-252-991A-22787	Sequence 22787, A	227	31	62.0	553	2	US-09-159-812-113	Sequence 113, App
155	31	62.0	111	2	US-09-252-991A-32600	Sequence 32600, A	228	31	62.0	553	2	US-09-636-215-113	Sequence 113, App
156	31	62.0	119	2	US-09-513-899C-6053	Sequence 6053, Ap	229	31	62.0	553	2	US-09-685-166A-113	Sequence 113, App
157	31	62.0	126	2	US-09-252-991A-21726	Sequence 21726, A	230	31	62.0	553	2	US-09-115-453-113	Sequence 113, App
158	31	62.0	127	2	US-09-252-991A-17128	Sequence 17128, A	231	31	62.0	553	2	US-09-688-489-113	Sequence 113, App
159	31	62.0	141	2	US-09-252-991A-17798	Sequence 17798, A	232	31	62.0	553	2	US-09-679-426-113	Sequence 113, App
160	31	62.0	153	2	US-09-252-991A-27240	Sequence 27240, A	233	31	62.0	553	2	US-09-759-143-113	Sequence 113, App
161	31	62.0	153	2	US-09-252-991A-26200	Sequence 26200, A	234	31	62.0	553	2	US-09-651-236-113	Sequence 113, App
162	31	62.0	156	2	US-09-252-991A-22515	Sequence 22515, A	235	31	62.0	553	2	US-09-030-606-113	Sequence 113, App
163	31	62.0	156	2	US-09-270-767-32665	Sequence 32665, A	236	31	62.0	553	2	US-09-657-279-113	Sequence 113, App
164	31	62.0	155	2	US-09-270-767-44255	Sequence 44255, A	237	31	62.0	553	2	US-10-012-896-113	Sequence 113, App
165	31	62.0	155	2	US-09-270-767-37485	Sequence 47882, A	238	31	62.0	611	2	US-09-352-991A-17597	Sequence 17597, A
166	31	62.0	165	2	US-09-270-767-37485	Sequence 37485, A	239	31	62.0	694	2	US-09-270-767-36948	Sequence 36948, A
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168	31	62.0	167	2	US-09-621-976-5075	Sequence 5075, Ap	241	31	62.0	697	2	US-09-252-991A-24009	Sequence 24009, A
169	31	62.0	169	2	US-09-252-991A-20344	Sequence 20344, A	242	31	62.0	732	1	US-08-317-522A-5	Sequence 5, Appl1
170	31	62.0	175	2	US-09-252-991A-25575	Sequence 25575, A	243	31	62.0	737	2	US-09-955-732A-13	Sequence 13, Appl1
171	31	62.0	187	2	US-09-252-991A-29971	Sequence 29971, A	244	31	62.0	778	1	US-08-439-818A-5	Sequence 5, Appl1
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248	31	62.0	778	2	US-08-808-599A-5	Sequence 5, Appl1	321	30	60.0	252	2	US-08-705-771-17	Sequence 17, Appl
249	31	62.0	949	2	US-09-270-167-41504	Sequence 41504, A	322	30	60.0	252	2	US-09-417-540-17	Sequence 17, Appl
250	31	62.0	1134	2	US-09-002-285-76	Sequence 76, Appl	323	30	60.0	258	2	US-09-270-767-43894	Sequence 43894, A
251	31	62.0	1134	2	US-09-589-477-76	Sequence 76, Appl	324	30	60.0	258	2	US-09-573-278-151	Sequence 151, App
252	31	62.0	1134	2	US-10-099-385A-76	Sequence 10, Appl	325	30	60.0	264	2	US-09-227-357-153	Sequence 153, App
253	31	62.0	1156	2	US-09-001-582-10	Sequence 10, Appl	326	30	60.0	271	2	US-09-252-991A-30733	Sequence 30733, A
254	31	62.0	1156	2	US-09-002-285-70	Sequence 70, Appl	327	30	60.0	295	2	US-09-252-991A-30564	Sequence 30564, A
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256	31	62.0	1156	2	US-09-589-477-70	Sequence 70, Appl	329	30	60.0	300	2	US-09-582-616-9	Sequence 9, Appl1
257	31	62.0	1156	2	US-09-589-477-72	Sequence 72, Appl	330	30	60.0	301	2	US-09-252-991A-23508	Sequence 23508, A
258	31	62.0	1156	2	US-09-661-322A-28	Sequence 28, Appl	331	30	60.0	301	2	US-09-564-805-231	Sequence 231, App
259	31	62.0	1156	2	US-10-099-285A-70	Sequence 70, Appl	332	30	60.0	306	2	US-09-252-991A-19457	Sequence 19457, A
260	31	62.0	1156	2	US-10-099-285A-72	Sequence 72, Appl	333	30	60.0	330	2	US-09-252-991A-27402	Sequence 27402, A
261	31	62.0	1156	2	US-09-668-650-10	Sequence 10, Appl	334	30	60.0	338	2	US-09-252-991A-28248	Sequence 28248, A
262	31	62.0	1157	1	US-08-532-547-5	Sequence 5, Appl1	335	30	60.0	339	2	US-09-252-991A-22934	Sequence 22934, A
263	31	62.0	1157	1	US-08-379-656B-5	Sequence 5, Appl1	336	30	60.0	355	2	US-09-552-991A-20176	Sequence 20176, A
264	31	62.0	1157	1	US-08-455-838-5	Sequence 5, Appl1	337	30	60.0	373	2	US-09-446-084-2	Sequence 2, Appl1
265	31	62.0	1157	2	US-09-019-809-5	Sequence 5, Appl1	338	30	60.0	376	2	US-09-487-558B-206	Sequence 2, Appl1
266	31	62.0	1157	2	US-09-471-177-5	Sequence 5, Appl1	339	30	60.0	382	2	US-09-252-991A-27347	Sequence 27347, A
267	31	62.0	1157	2	US-09-220-806-5	Sequence 5, Appl1	340	30	60.0	384	2	US-09-699-295-326	Sequence 326, App
268	31	62.0	1159	1	US-08-542-921-2	Sequence 2, Appl1	341	30	60.0	388	2	US-09-543-681A-6519	Sequence 6519, App
269	31	62.0	1169	1	US-08-880-685-2	Sequence 2, Appl1	342	30	60.0	391	2	US-10-104-047-3877	Sequence 3877, App
270	31	62.0	1169	1	US-08-880-684-2	Sequence 2, Appl1	343	30	60.0	402	2	US-09-489-039A-9252	Sequence 9252, App
271	31	62.0	1273	2	US-09-170-496D-289	Sequence 289, App	344	30	60.0	409	2	US-09-107-433-4192	Sequence 4192, App
272	31	62.0	1273	2	US-09-364-455B-54	Sequence 54, Appl	345	30	60.0	421	2	US-10-017-393-2	Sequence 2, Appl1
273	31	62.0	1395	2	US-09-540-245A-15	Sequence 15, Appl	346	30	60.0	422	2	US-09-252-991A-23885	Sequence 23885, A
274	31	62.0	1395	2	US-10-289-776-15	Sequence 15, Appl	347	30	60.0	442	2	US-09-252-991A-23908	Sequence 23908, A
275	31	62.0	2050	1	US-08-347-594A-2	Sequence 2, Appl1	348	30	60.0	449	2	US-09-252-991A-23908	Sequence 23908, A
276	31	62.0	2813	2	US-09-381-261A-1	Sequence 1, Appl1	349	30	60.0	457	2	US-09-999-833A-19	Sequence 19, Appl
277	31	62.0	5179	2	US-09-538-092-1258	Sequence 1258, App	350	30	60.0	457	2	US-10-020-445A-19	Sequence 19, Appl
278	31	62.0	61	2	US-09-270-767-56348	Sequence 56348, A	351	30	60.0	524	2	US-09-270-767-44256	Sequence 44256, A
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280	30	60.0	74	2	US-09-489-039A-14201	Sequence 14201, A	353	30	60.0	540	2	US-09-902-540-982A	Sequence 27809, A
281	30	60.0	74	2	US-09-621-976-6942	Sequence 6942, App	354	30	60.0	555	2	US-09-252-991A-20649	Sequence 20649, A
282	30	60.0	76	2	US-09-270-767-35628	Sequence 35628, A	355	30	60.0	575	1	US-07-668-648-4	Sequence 4, Appl1
283	30	60.0	76	2	US-09-270-767-50845	Sequence 50845, A	356	30	60.0	593	1	US-08-429-998-4	Sequence 4, Appl1
284	30	60.0	84	2	US-09-198-452A-1276	Sequence 1276, App	357	30	60.0	593	1	US-08-429-998-4	Sequence 4, Appl1
285	30	60.0	85	2	US-09-621-976-5387	Sequence 5387, App	358	30	60.0	593	1	US-08-991-862-17	Sequence 17, Appl
286	30	60.0	86	2	US-09-621-976-3953	Sequence 3953, App	359	30	60.0	593	2	US-08-991-862-17	Sequence 17, Appl
287	30	60.0	90	2	US-09-270-767-34477	Sequence 34477, A	360	30	60.0	593	2	US-09-813-156-17	Sequence 17, Appl
288	30	60.0	90	2	US-09-270-767-49694	Sequence 49694, A	361	30	60.0	593	2	US-09-456-886-17	Sequence 17, Appl
289	30	60.0	93	2	US-09-287-849-35	Sequence 35, Appl1	362	30	60.0	593	2	US-09-824-647-17	Sequence 17, Appl
290	30	60.0	107	2	US-09-270-767-60163	Sequence 60163, A	363	30	60.0	593	2	US-09-880-842-17	Sequence 17, Appl
291	30	60.0	109	2	US-09-621-976-4797	Sequence 4797, App	364	30	60.0	593	4	PCT-US91-02321-4	Sequence 4, Appl1
292	30	60.0	112	2	US-09-252-991A-29338	Sequence 29338, A	365	30	60.0	597	2	US-09-252-991A-24252	Sequence 24252, A
293	30	60.0	116	2	US-09-270-767-35383	Sequence 35383, A	366	30	60.0	613	2	US-09-949-016-9775	Sequence 9775, App
294	30	60.0	116	2	US-09-270-767-50600	Sequence 50600, A	367	30	60.0	717	2	US-10-070-634-8	Sequence 8, Appl1
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297	30	60.0	132	2	US-08-311-731A-361	Sequence 361, App	370	30	60.0	1187	1	US-08-201-697-4	Sequence 4, Appl1
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299	30	60.0	134	2	US-09-252-991A-19279	Sequence 19279, A	372	30	60.0	1246	2	US-09-949-016-8052	Sequence 8052, App
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305	30	60.0	156	2	US-09-489-039A-7440	Sequence 7440, App	378	30	60.0	1274	2	US-09-949-016-8830	Sequence 8830, App
306	30	60.0	159	2	US-09-270-767-44709	Sequence 44709, A	379	30	60.0	1274	2	US-09-949-016-8831	Sequence 8831, App
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308	30	60.0	181	2	US-09-902-540-14331	Sequence 14331, A	381	30	60.0	1274	1	US-08-477-451-12	Sequence 12, Appl
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310	30	60.0	184	2	US-09-538-092-504	Sequence 504, App	383	30	60.0	1481	1	US-09-919-437-70	Sequence 70, Appl
311	30	60.0	190	2	US-09-270-767-53681	Sequence 53681, A	384	30	60.0	14	6	5189020-12	Sequence 12, Appl
312	30	60.0	195	2	US-10-104-047-3662	Sequence 3662, App	385	30	60.0	26	2	US-09-073-407-13	Sequence 13, Appl
313	30	60.0	206	2	US-09-252-991A-22768	Sequence 22768, A	386	30	60.0	29	2	US-09-149-476-589	Sequence 589, App
314	30	60.0	209	2	US-09-599-360B-121	Sequence 121, App	387	30	60.0	29	2	US-08-190-802A-123	Sequence 123, App
315	30	60.0	216	2	US-09-446-084-1	Sequence 1, Appl1	388	30	60.0	30	1	US-08-190-802A-136	Sequence 136, App
316	30	60.0	217	2	US-09-252-991A-27361	Sequence 27361, A	389	30	60.0	30	1	US-08-190-802A-142	Sequence 142, App
317	30	60.0	218	2	US-09-248-796A-18099	Sequence 18099, A	390	30	60.0	30	1	US-08-190-802A-148	Sequence 148, App
318	30	60.0	226	2	US-09-252-991A-23893	Sequence 23893, A	391	30	60.0	30	1	US-08-190-802A-154	Sequence 154, App
319	30	60.0	238	2	US-09-252-991A-16923	Sequence 16923, A	392	30	60.0	30	1	US-08-190-802A-162	Sequence 162, App

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395	29	58.0	30	2	US-08-477-346-142	Sequence 142, App	468	29	58.0	164	2	US-09-252-991A-28739	Sequence 28739, A
396	29	58.0	30	2	US-08-477-346-148	Sequence 148, App	469	29	58.0	170	2	US-09-252-991A-17725	Sequence 17725, A
397	29	58.0	30	2	US-08-477-346-154	Sequence 154, App	470	29	58.0	174	2	US-09-252-991A-17725	Sequence 17725, A
398	29	58.0	30	2	US-08-477-346-162	Sequence 162, App	471	29	58.0	177	2	US-09-252-991A-25960	Sequence 25960, A
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402	29	58.0	30	2	US-08-473-089-148	Sequence 148, App	475	29	58.0	184	2	US-09-252-991A-24524	Sequence 24524, A
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404	29	58.0	30	2	US-08-473-089-162	Sequence 162, App	477	29	58.0	186	2	US-09-270-767-46614	Sequence 46614, A
405	29	58.0	30	2	US-08-487-072A-123	Sequence 123, App	478	29	58.0	187	2	US-09-252-991A-19743	Sequence 19743, A
406	29	58.0	30	2	US-08-487-072A-136	Sequence 136, App	479	29	58.0	189	2	US-09-270-767-42888	Sequence 42888, A
407	29	58.0	30	2	US-08-487-072A-142	Sequence 142, App	480	29	58.0	197	2	US-09-270-767-34033	Sequence 34033, A
408	29	58.0	30	2	US-08-487-072A-148	Sequence 148, App	481	29	58.0	197	2	US-09-270-767-49250	Sequence 49250, A
409	29	58.0	30	2	US-08-487-072A-154	Sequence 154, App	482	29	58.0	200	2	US-09-252-991A-22497	Sequence 22497, A
410	29	58.0	30	2	US-08-487-072A-162	Sequence 162, App	483	29	58.0	229	2	US-09-252-991A-19548	Sequence 59887, A
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412	29	58.0	44	2	US-09-270-767-40540	Sequence 40540, A	485	29	58.0	253	2	US-09-252-991A-31638	Sequence 31638, A
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415	29	58.0	45	1	US-07-973-852-3	Sequence 3, Appl1	488	29	58.0	258	2	US-09-489-039A-9250	Sequence 9250, Ap
416	29	58.0	45	1	US-07-950-773-2	Sequence 2, Appl1	489	29	58.0	276	2	US-09-270-767-45815	Sequence 45815, A
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419	29	58.0	45	1	US-08-838-763-4	Sequence 3, Appl1	492	29	58.0	299	2	US-09-147-8268-2	Sequence 2, Appl1
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421	29	58.0	45	1	US-08-838-763-5	Sequence 5, Appl1	494	29	58.0	307	2	US-09-375-197-4	Sequence 4, Appl1
422	29	58.0	45	1	US-08-838-763-7	Sequence 7, Appl1	495	29	58.0	307	2	US-10-165-800-19	Sequence 19, Appl1
423	29	58.0	45	1	US-08-838-763-8	Sequence 8, Appl1	496	29	58.0	322	2	US-09-252-991A-31608	Sequence 31608, A
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425	29	58.0	47	4	PCT-US96-088811-2	Sequence 2, Appl1	498	29	58.0	326	1	US-08-190-802A-39	Sequence 39, Appl1
426	29	58.0	53	2	US-09-673-395A-203	Sequence 203, App	499	29	58.0	326	2	US-08-477-346-39	Sequence 39, Appl1
427	29	58.0	62	2	US-09-328-352-4166	Sequence 4166, App	500	29	58.0	326	2	US-08-473-089-39	Sequence 39, Appl1
428	29	58.0	62	2	US-09-513-999C-6126	Sequence 6126, App	501	29	58.0	326	2	US-08-487-072A-39	Sequence 39, Appl1
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432	29	58.0	73	2	US-09-513-999C-4647	Sequence 4647, Ap	505	29	58.0	340	1	US-08-190-802A-40	Sequence 40, Appl1
433	29	58.0	75	2	US-08-905-223-330	Sequence 330, App	506	29	58.0	340	1	US-08-190-802A-42	Sequence 42, Appl1
434	29	58.0	76	2	US-09-252-991A-3006	Sequence 3006, A	507	29	58.0	340	2	US-09-180-783-2	Sequence 2, Appl1
435	29	58.0	80	1	US-08-726-306A-173	Sequence 173, App	508	29	58.0	340	2	US-08-477-346-38	Sequence 38, Appl1
436	29	58.0	80	2	US-09-270-767-39182	Sequence 39182, A	509	29	58.0	340	2	US-08-477-346-40	Sequence 40, Appl1
437	29	58.0	80	2	US-09-270-767-54399	Sequence 54399, A	510	29	58.0	340	2	US-08-477-346-42	Sequence 42, Appl1
438	29	58.0	94	2	US-09-621-976-5361	Sequence 5361, Ap	511	29	58.0	340	2	US-08-473-089-38	Sequence 38, Appl1
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441	29	58.0	105	2	US-09-710-379-922	Sequence 922, App	514	29	58.0	340	2	US-08-487-072A-38	Sequence 38, Appl1
442	29	58.0	105	2	US-09-710-379-1028	Sequence 1028, Ap	515	29	58.0	340	2	US-08-487-072A-40	Sequence 40, Appl1
443	29	58.0	110	2	US-09-252-991A-21148	Sequence 21148, A	516	29	58.0	340	2	US-08-487-072A-42	Sequence 42, Appl1
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446	29	58.0	119	2	US-09-270-767-37097	Sequence 37097, A	519	29	58.0	340	2	US-09-538-092-899	Sequence 899, App
447	29	58.0	119	2	US-09-270-767-52314	Sequence 52314, A	520	29	58.0	340	2	US-09-538-092-940	Sequence 940, App
448	29	58.0	123	2	US-09-252-991A-19709	Sequence 19209, A	521	29	58.0	340	2	US-09-492-029-3	Sequence 3, Appl1
449	29	58.0	124	2	US-09-513-999C-7864	Sequence 7864, Ap	522	29	58.0	340	2	US-09-492-029-5	Sequence 5, Appl1
450	29	58.0	124	2	US-10-000-489-42	Sequence 42, Appl1	523	29	58.0	341	1	US-08-190-802A-45	Sequence 45, Appl1
451	29	58.0	124	2	US-09-270-767-39085	Sequence 39085, A	524	29	58.0	341	1	US-08-477-346-45	Sequence 45, Appl1
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453	29	58.0	138	2	US-09-270-767-37396	Sequence 37396, A	526	29	58.0	341	2	US-08-487-072A-45	Sequence 45, Appl1
454	29	58.0	138	2	US-09-270-767-52613	Sequence 52613, A	527	29	58.0	341	2	US-09-252-991A-33424	Sequence 33424, A
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456	29	58.0	141	2	US-09-252-991A-18631	Sequence 18631, A	529	29	58.0	343	2	US-08-153-848-24	Sequence 24, Appl1
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459	29	58.0	148	2	US-09-270-767-39762	Sequence 39762, A	532	29	58.0	359	4	PCT-US93-11153-24	Sequence 24, Appl1
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461	29	58.0	149	2	US-09-252-991A-23111	Sequence 23111, A	534	29	58.0	369	2	US-09-252-991A-25394	Sequence 25394, A
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463	29	58.0	152	2	US-09-252-991A-20246	Sequence 20246, A	536	29	58.0	375	2	US-09-540-236-2185	Sequence 2185, Ap
464	29	58.0	152	2	US-09-252-991A-26498	Sequence 26498, A	537	29	58.0	377	2	US-09-248-796A-14772	Sequence 14772, A
465	29	58.0	152	2	US-09-252-991A-26945	Sequence 26945, A	538	29	58.0	381	1	US-08-845-566-3	Sequence 3, Appl1

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540	29	58.0	381	2	US-08-852-824-18	Sequence 18, Appl	613	29	58.0	1053	2	US-09-252-991A-26140	Sequence 26140, A
541	29	58.0	381	2	US-08-467-947A-18	Sequence 28, Appl	614	29	58.0	1284	2	US-09-432-494-9	Sequence 9, Appl
542	29	58.0	381	2	US-09-731-030A-17	Sequence 17, Appl	615	29	58.0	1284	2	US-09-158-383C-11	Sequence 11, Appl
543	29	58.0	381	2	US-09-518-383-18	Sequence 18, Appl	616	29	58.0	1284	2	US-10-160-224-9	Sequence 9, Appl
544	29	58.0	381	4	PCT-US96-10618-4	Sequence 4, Appl	617	29	58.0	2296	2	US-08-286-819A-27	Sequence 27, Appl
545	29	58.0	382	2	US-09-252-477-2	Sequence 2, Appl	618	29	58.0	2296	2	US-09-357-375-27	Sequence 27, Appl
546	29	58.0	390	2	US-09-949-016-1236	Sequence 7236, Ap	619	29	58.0	2296	2	US-09-357-375-27	Sequence 27, Appl
547	29	58.0	399	2	US-09-252-991A-25098	Sequence 25098, A	620	28.5	57.0	191	2	US-09-252-991A-23902	Sequence 23902, A
548	29	58.0	412	2	US-09-252-991A-28034	Sequence 28034, A	621	28.5	57.0	223	2	US-09-252-991A-25602	Sequence 25602, A
549	29	58.0	414	2	US-09-354-123-8	Sequence 8, Appl	622	28.5	57.0	366	2	US-09-252-991A-30479	Sequence 30479, A
550	29	58.0	418	2	US-09-489-039A-14161	Sequence 14161, A	623	28.5	56.0	803	2	US-08-049-794-28	Sequence 80479, A
551	29	58.0	430	2	US-08-997-897-2	Sequence 2, Appl	624	28	56.0	8	1	US-08-496-847-28	Sequence 28, Appl
552	29	58.0	430	2	US-09-156-836B-2	Sequence 2, Appl	625	28	56.0	8	1	US-08-742-774-28	Sequence 28, Appl
553	29	58.0	431	2	US-08-190-802A-37	Sequence 37, Appl	626	28	56.0	8	1	US-08-675-354-28	Sequence 28, Appl
554	29	58.0	431	2	US-08-477-346-37	Sequence 37, Appl	627	28	56.0	8	1	US-08-665-18-28	Sequence 28, Appl
555	29	58.0	431	2	US-08-473-089-37	Sequence 37, Appl	628	28	56.0	8	1	US-09-138-439-28	Sequence 28, Appl
556	29	58.0	431	2	US-08-487-072A-37	Sequence 37, Appl	629	28	56.0	8	2	US-08-613-400A-28	Sequence 28, Appl
557	29	58.0	431	2	US-09-538-092-1267	Sequence 1267, Ap	630	28	56.0	8	2	US-09-298-017-28	Sequence 28, Appl
558	29	58.0	453	2	US-09-543-681A-5359	Sequence 5359, Ap	631	28	56.0	8	2	US-09-298-017-28	Sequence 28, Appl
559	29	58.0	464	2	US-09-949-016-10463	Sequence 10463, A	632	28	56.0	8	2	US-09-392-979A-28	Sequence 28, Appl
560	29	58.0	465	2	US-09-957-005-11	Sequence 11, Appl	633	28	56.0	10	1	US-07-789-913-28	Sequence 28, Appl
561	29	58.0	465	2	US-09-489-039A-10231	Sequence 10231, A	634	28	56.0	14	2	US-08-853-910-8	Sequence 8, Appl
562	29	58.0	472	2	US-09-489-039A-12395	Sequence 12395, A	635	28	56.0	17	2	US-08-469-260A-425	Sequence 425, App
563	29	58.0	474	1	US-08-185-828A-12	Sequence 12, Appl	636	28	56.0	17	2	US-08-488-446-425	Sequence 425, App
564	29	58.0	474	1	US-08-185-828A-18	Sequence 18, Appl	637	28	56.0	17	2	US-08-467-344A-425	Sequence 425, App
565	29	58.0	474	1	US-08-185-828A-24	Sequence 24, Appl	638	28	56.0	17	2	US-08-424-550B-425	Sequence 425, App
566	29	58.0	480	2	US-09-252-991A-17687	Sequence 17687, A	639	28	56.0	24	2	US-09-623-548A-1394	Sequence 1394, Ap
567	29	58.0	480	2	US-09-270-767-17632	Sequence 37632, A	640	28	56.0	24	2	US-09-657-276-1394	Sequence 43989, A
568	29	58.0	480	2	US-09-270-767-52839	Sequence 52839, A	641	28	56.0	26	2	US-09-270-767-43989	Sequence 4, Appl
569	29	58.0	494	2	US-09-252-991A-29568	Sequence 29568, A	642	28	56.0	27	1	US-07-689-693B-4	Sequence 3, Appl
570	29	58.0	514	2	US-09-902-5340-16053	Sequence 16053, A	643	28	56.0	27	1	US-07-789-913-3	Sequence 20, Appl
571	29	58.0	516	1	US-08-357-533A-2	Sequence 2, Appl	644	28	56.0	27	1	US-07-789-913-20	Sequence 3, Appl
572	29	58.0	516	1	US-08-459-009-2	Sequence 2, Appl	645	28	56.0	27	1	US-08-049-794-3	Sequence 7, Appl
573	29	58.0	516	1	US-08-459-009-2	Sequence 2, Appl	646	28	56.0	27	1	US-08-049-794-7	Sequence 7, Appl
574	29	58.0	523	2	US-10-199-024-59	Sequence 59, Appl	647	28	56.0	27	1	US-08-049-794-20	Sequence 30, Appl
575	29	58.0	523	2	US-10-199-024-60	Sequence 60, Appl	648	28	56.0	27	1	US-08-049-794-30	Sequence 30, Appl
576	29	58.0	524	1	US-08-461-837-2	Sequence 2, Appl	649	28	56.0	27	1	US-08-486-847-30	Sequence 3, Appl
577	29	58.0	524	1	US-08-480-736-12	Sequence 12, Appl	650	28	56.0	27	1	US-08-486-847-7	Sequence 7, Appl
578	29	58.0	524	2	US-08-973-223-2	Sequence 2, Appl	651	28	56.0	27	1	US-08-486-847-20	Sequence 20, Appl
579	29	58.0	524	2	US-09-347-060-2	Sequence 2, Appl	652	28	56.0	27	1	US-08-466-847-30	Sequence 30, Appl
580	29	58.0	524	2	US-09-701-014-2	Sequence 2, Appl	653	28	56.0	27	1	US-08-742-774-3	Sequence 3, Appl
581	29	58.0	524	4	PCT-US96-09495-2	Sequence 2, Appl	654	28	56.0	27	1	US-08-742-774-7	Sequence 7, Appl
582	29	58.0	532	2	US-09-252-991A-25769	Sequence 25769, A	655	28	56.0	27	1	US-08-742-774-20	Sequence 20, Appl
583	29	58.0	534	2	US-09-252-991A-20181	Sequence 20181, A	656	28	56.0	27	1	US-08-742-774-30	Sequence 30, Appl
584	29	58.0	589	1	US-07-668-648-2	Sequence 2, Appl	657	28	56.0	27	1	US-08-675-354-3	Sequence 3, Appl
585	29	58.0	589	1	US-08-429-998-2	Sequence 2, Appl	658	28	56.0	27	1	US-08-675-354-7	Sequence 7, Appl
586	29	58.0	589	1	US-08-431-333-2	Sequence 2, Appl	659	28	56.0	27	1	US-08-675-354-20	Sequence 20, Appl
587	29	58.0	589	4	PCT-US91-02321-2	Sequence 2, Appl	660	28	56.0	27	1	US-08-675-354-40	Sequence 40, Appl
588	29	58.0	611	2	US-09-370-807-2	Sequence 2, Appl	661	28	56.0	27	1	US-08-675-354-60	Sequence 60, Appl
589	29	58.0	611	2	US-09-921-259-2	Sequence 2, Appl	662	28	56.0	27	1	US-08-965-918-3	Sequence 3, Appl
590	29	58.0	622	2	US-09-270-767-44449	Sequence 44449, A	663	28	56.0	27	1	US-08-965-918-7	Sequence 7, Appl
591	29	58.0	628	2	US-09-828-447-12	Sequence 12, Appl	664	28	56.0	27	1	US-08-965-918-20	Sequence 20, Appl
592	29	58.0	640	2	US-09-592-595A-2	Sequence 2, Appl	665	28	56.0	27	1	US-08-965-918-30	Sequence 30, Appl
593	29	58.0	640	2	US-09-592-595A-4	Sequence 4, Appl	666	28	56.0	27	1	US-08-965-918-40	Sequence 40, Appl
594	29	58.0	656	2	US-08-738-000-4	Sequence 4, Appl	667	28	56.0	27	1	US-09-039-168-3	Sequence 3, Appl
595	29	58.0	656	2	US-09-258-928-2	Sequence 2, Appl	668	28	56.0	27	1	US-09-039-168-7	Sequence 7, Appl
596	29	58.0	656	2	US-09-347-878-24	Sequence 24, Appl	669	28	56.0	27	1	US-09-138-439-7	Sequence 7, Appl
597	29	58.0	656	2	US-09-660-872A-4	Sequence 4, Appl	670	28	56.0	27	1	US-09-138-439-20	Sequence 20, Appl
598	29	58.0	656	2	US-09-931-795-4	Sequence 4, Appl	671	28	56.0	27	1	US-09-138-439-30	Sequence 30, Appl
599	29	58.0	660	2	US-08-738-000-2	Sequence 2, Appl	672	28	56.0	27	2	US-08-613-400A-3	Sequence 3, Appl
600	29	58.0	660	2	US-09-258-928-2	Sequence 2, Appl	673	28	56.0	27	2	US-08-613-400A-7	Sequence 7, Appl
601	29	58.0	660	2	US-09-660-872A-2	Sequence 2, Appl	674	28	56.0	27	2	US-08-613-400A-20	Sequence 20, Appl
602	29	58.0	660	2	US-09-931-795-2	Sequence 2, Appl	675	28	56.0	27	2	US-08-613-400A-30	Sequence 30, Appl
603	29	58.0	660	2	US-09-252-991A-30052	Sequence 30052, A	676	28	56.0	27	2	US-09-298-017-3	Sequence 3, Appl
604	29	58.0	719	2	US-08-872-855-7	Sequence 7, Appl	677	28	56.0	27	2	US-09-298-017-7	Sequence 7, Appl
605	29	58.0	721	2	US-08-981-392-5	Sequence 5, Appl	678	28	56.0	27	2	US-09-298-017-20	Sequence 20, Appl
606	29	58.0	721	2	US-09-908-322-5	Sequence 5, Appl	679	28	56.0	27	2	US-09-392-979A-3	Sequence 3, Appl
607	29	58.0	721	2	US-09-310-685-12	Sequence 12, Appl	680	28	56.0	27	2	US-09-392-979A-20	Sequence 20, Appl
608	29	58.0	740	2	US-09-252-991A-21575	Sequence 21575, A	681	28	56.0	27	2	US-09-392-979A-30	Sequence 30, Appl
609	29	58.0	754	2	US-09-300-008B-2	Sequence 20574, A	682	28	56.0	27	2	US-09-392-979A-30	Sequence 30, Appl
610	29	58.0	884	2	US-09-248-796A-20574	Sequence 20574, A	683	28	56.0	27	2	US-09-392-979A-30	Sequence 30, Appl
611	29	58.0	904	2	US-09-543-681A-4485	Sequence 4485, Ap	684	28	56.0	27	2	US-09-073-407-1	Sequence 1, Appl

685	28	56.0	27	2	US-09-073-407-2	Sequence 2, Appl1	758	28	56.0	50	2	US-10-006-252A-69	Sequence 69, Appl1
686	28	56.0	27	2	US-09-073-407-3	Sequence 3, Appl1	759	28	56.0	51	2	US-09-077-951-72	Sequence 72, Appl1
687	28	56.0	27	2	US-09-073-407-4	Sequence 4, Appl1	760	28	56.0	51	2	US-09-077-951-74	Sequence 74, Appl1
688	28	56.0	27	2	US-09-073-407-5	Sequence 5, Appl1	761	28	56.0	51	2	US-10-006-252A-72	Sequence 72, Appl1
689	28	56.0	27	2	US-09-073-407-6	Sequence 6, Appl1	762	28	56.0	51	2	US-10-006-252A-74	Sequence 74, Appl1
690	28	56.0	27	2	US-09-073-407-7	Sequence 7, Appl1	763	28	56.0	62	2	US-09-489-039A-11149	Sequence 11149, A
691	28	56.0	27	2	US-09-073-407-8	Sequence 8, Appl1	764	28	56.0	62	2	US-09-673-392A-334	Sequence 334, App
692	28	56.0	27	6	5189020-3	Patent No. 5189020	765	28	56.0	62	2	US-09-621-975-7027	Sequence 7027, Ap
693	28	56.0	27	6	5189020-7	Patent No. 5189020	766	28	56.0	62	2	US-09-248-796A-26819	Sequence 26819, A
694	28	56.0	27	6	5424218-3	Patent No. 5424218	767	28	56.0	63	2	US-09-621-976-5822	Sequence 5822, Ap
695	28	56.0	27	6	5424218-7	Patent No. 5424218	768	28	56.0	63	2	US-09-621-976-5827	Sequence 5827, Ap
696	28	56.0	32	1	US-08-361-920-4	Sequence 4, Appl1	769	28	56.0	64	2	US-09-248-796A-24546	Sequence 24546, A
697	28	56.0	32	1	US-08-479-939-4	Sequence 4, Appl1	770	28	56.0	73	1	US-07-689-693B-3	Sequence 3, Appl1
698	28	56.0	32	1	US-08-483-432-4	Sequence 4, Appl1	771	28	56.0	73	1	US-08-624-123-12	Sequence 12, Appl1
699	28	56.0	37	2	US-09-461-325-242	Sequence 242, App	772	28	56.0	73	2	US-09-270-767-35372	Sequence 35372, A
700	28	56.0	37	2	US-09-461-325-429	Sequence 429, App	773	28	56.0	73	2	US-09-270-767-50589	Sequence 50589, A
701	28	56.0	37	2	US-10-012-542-242	Sequence 242, App	774	28	56.0	74	4	PCT-US96-05262-13	Sequence 13, Appl1
702	28	56.0	37	2	US-10-012-542-429	Sequence 429, App	775	28	56.0	74	2	US-09-248-796A-26094	Sequence 26094, A
703	28	56.0	37	2	US-10-115-123-242	Sequence 242, App	776	28	56.0	75	2	US-09-482-273-155	Sequence 155, App
704	28	56.0	37	2	US-10-115-123-429	Sequence 429, App	777	28	56.0	76	2	US-09-690-454-68	Sequence 68, Appl1
705	28	56.0	38	1	US-08-033-873-1	Sequence 1, Appl1	778	28	56.0	79	1	US-08-154-916-3	Sequence 3, Appl1
706	28	56.0	38	1	US-08-033-873-11	Sequence 11, Appl1	779	28	56.0	79	2	US-09-270-767-58410	Sequence 58410, A
707	28	56.0	38	1	US-08-033-873-12	Sequence 12, Appl1	780	28	56.0	79	2	US-09-248-796A-22845	Sequence 22845, A
708	28	56.0	38	1	US-08-033-873-16	Sequence 16, Appl1	781	28	56.0	81	2	US-09-328-352-6566	Sequence 6566, Ap
709	28	56.0	38	1	US-08-212-236-7	Sequence 7, Appl1	782	28	56.0	82	2	US-09-252-991A-19588	Sequence 19588, A
710	28	56.0	38	1	US-08-356-832-1	Sequence 11, Appl1	783	28	56.0	86	2	US-09-248-796A-26802	Sequence 26802, A
711	28	56.0	38	1	US-08-356-832-11	Sequence 11, Appl1	784	28	56.0	89	2	US-08-931-858E-223	Sequence 223, Appl1
712	28	56.0	38	1	US-08-356-832-11	Sequence 11, Appl1	785	28	56.0	89	2	US-09-220-528-18	Sequence 18, Appl1
713	28	56.0	38	1	US-08-356-832-12	Sequence 12, Appl1	786	28	56.0	89	2	US-09-663-600A-118	Sequence 118, App
714	28	56.0	38	1	US-08-356-832-12	Sequence 12, Appl1	787	28	56.0	89	2	US-09-663-600A-118	Sequence 118, App
715	28	56.0	38	2	US-08-988-705-11	Sequence 11, Appl1	788	28	56.0	89	2	US-09-220-407-223	Sequence 223, App
716	28	56.0	38	2	US-08-988-705-12	Sequence 12, Appl1	789	28	56.0	89	2	US-09-473-551-1	Sequence 1, Appl1
717	28	56.0	38	2	US-08-988-705-16	Sequence 16, Appl1	790	28	56.0	89	2	US-09-473-551-25	Sequence 25, Appl1
718	28	56.0	38	2	US-09-228-302-9	Sequence 9, Appl1	791	28	56.0	90	2	US-09-220-528-75	Sequence 75, Appl1
719	28	56.0	38	2	US-09-228-302-10	Sequence 10, Appl1	792	28	56.0	93	2	US-09-252-991A-24991	Sequence 24991, A
720	28	56.0	38	2	US-09-030-619-195	Sequence 195, App	793	28	56.0	96	2	US-08-931-858E-221	Sequence 221, App
721	28	56.0	38	2	US-09-17-340-70	Sequence 70, Appl1	794	28	56.0	96	2	US-09-220-528-15	Sequence 15, Appl1
722	28	56.0	38	2	US-09-270-767-35903	Sequence 35903, A	795	28	56.0	96	2	US-09-220-528-13	Sequence 13, Appl1
723	28	56.0	38	2	US-09-270-767-51120	Sequence 51120, A	796	28	56.0	96	2	US-09-220-528-33	Sequence 33, Appl1
724	28	56.0	38	2	US-09-444-281-76	Sequence 76, Appl1	797	28	56.0	96	2	US-09-370-833-77	Sequence 77, Appl1
725	28	56.0	39	1	US-08-036-555B-40	Sequence 40, Appl1	798	28	56.0	96	2	US-09-270-767-61256	Sequence 61256, A
726	28	56.0	39	1	US-08-469-569-40	Sequence 40, Appl1	799	28	56.0	96	2	US-09-220-407-221	Sequence 221, App
727	28	56.0	39	1	US-08-212-236-8	Sequence 8, Appl1	800	28	56.0	96	2	US-09-854-133-77	Sequence 77, Appl1
728	28	56.0	39	1	US-08-212-236-9	Sequence 9, Appl1	801	28	56.0	96	2	US-09-473-551-9	Sequence 9, Appl1
729	28	56.0	39	1	US-08-249-322A-40	Sequence 40, Appl1	802	28	56.0	96	2	US-09-473-551-10	Sequence 10, Appl1
730	28	56.0	39	1	US-08-469-526A-40	Sequence 40, Appl1	803	28	56.0	96	2	US-09-473-551-28	Sequence 28, Appl1
731	28	56.0	39	1	US-08-734-591A-40	Sequence 40, Appl1	804	28	56.0	96	2	US-09-950-933A-60	Sequence 60, Appl1
732	28	56.0	39	1	US-08-469-660-40	Sequence 40, Appl1	805	28	56.0	98	2	US-09-228-986-88	Sequence 88, Appl1
733	28	56.0	39	2	US-08-735-021-40	Sequence 40, Appl1	806	28	56.0	98	2	US-10-101-464A-88	Sequence 88, Appl1
734	28	56.0	39	2	US-08-734-664A-40	Sequence 40, Appl1	807	28	56.0	99	1	US-08-537-400-19	Sequence 19, Appl1
735	28	56.0	39	4	PCT-US94-05083C-40	Sequence 40, Appl1	808	28	56.0	99	2	US-09-950-933A-83	Sequence 83, Appl1
736	28	56.0	39	4	PCT-US95-06846A-40	Sequence 40, Appl1	809	28	56.0	101	2	US-09-252-991A-21799	Sequence 21799, A
737	28	56.0	40	1	US-08-033-873-2	Sequence 2, Appl1	810	28	56.0	102	2	US-09-270-767-33465	Sequence 33465, A
738	28	56.0	40	1	US-08-356-832-2	Sequence 2, Appl1	811	28	56.0	102	2	US-09-270-767-34682	Sequence 34682, A
739	28	56.0	40	2	US-08-988-705-2	Sequence 2, Appl1	812	28	56.0	105	2	US-09-732-210-130	Sequence 130, App
740	28	56.0	40	2	US-09-030-619-196	Sequence 196, App	813	28	56.0	106	2	US-09-252-991A-20137	Sequence 20137, A
741	28	56.0	40	2	US-09-444-281-77	Sequence 77, App	814	28	56.0	107	2	US-09-489-033A-8676	Sequence 8676, Ap
742	28	56.0	42	1	US-08-033-873-3	Sequence 3, Appl1	815	28	56.0	109	2	US-09-252-991A-30500	Sequence 30500, A
743	28	56.0	42	1	US-08-033-873-13	Sequence 13, Appl1	816	28	56.0	109	2	US-09-543-681A-6117	Sequence 6117, Ap
744	28	56.0	42	1	US-08-356-832-3	Sequence 3, Appl1	817	28	56.0	111	2	US-09-252-991A-23578	Sequence 23578, A
745	28	56.0	42	1	US-08-356-832-13	Sequence 13, Appl1	818	28	56.0	111	2	US-09-825-414-38	Sequence 38, Appl1
746	28	56.0	42	2	US-08-988-705-13	Sequence 3, Appl1	819	28	56.0	112	1	US-08-388-672A-21	Sequence 21, Appl1
747	28	56.0	42	2	US-08-988-705-13	Sequence 13, Appl1	820	28	56.0	112	1	US-08-388-672A-25	Sequence 25, Appl1
748	28	56.0	42	2	US-09-917-340-67	Sequence 67, Appl1	821	28	56.0	112	2	US-09-080-554-25	Sequence 25, Appl1
749	28	56.0	42	2	US-09-917-340-69	Sequence 69, Appl1	822	28	56.0	113	1	US-08-672-345C-5	Sequence 5, Appl1
750	28	56.0	44	2	US-09-270-767-38870	Sequence 38870, A	823	28	56.0	113	1	US-08-672-345C-6	Sequence 6, Appl1
751	28	56.0	44	2	US-09-270-767-54087	Sequence 54087, A	824	28	56.0	113	1	US-08-672-345C-7	Sequence 7, Appl1
752	28	56.0	47	2	US-09-270-767-55384	Sequence 40168, A	825	28	56.0	113	1	US-08-672-345C-95	Sequence 95, Appl1
753	28	56.0	47	2	US-09-270-767-55384	Sequence 55384, A	826	28	56.0	113	1	US-08-672-345C-96	Sequence 96, Appl1
754	28	56.0	49	1	US-08-726-306A-149	Sequence 149, App	827	28	56.0	113	1	US-08-672-345C-97	Sequence 97, Appl1
755	28	56.0	50	2	US-09-077-951-67	Sequence 67, Appl1	828	28	56.0	113	2	US-08-983-607-25	Sequence 25, Appl1
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834	28	56.0	113	2	US-09-214-095D-100	Sequence 100, App	907	28	56.0	141	2	US-10-141-645-68	Sequence 68, Appl
835	28	56.0	113	2	US-09-214-095D-104	Sequence 104, App	908	28	56.0	141	2	US-10-141-645-70	Sequence 70, Appl
836	28	56.0	113	2	US-09-214-095D-112	Sequence 112, App	909	28	56.0	141	2	US-10-141-645-71	Sequence 71, Appl
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838	28	56.0	113	2	US-09-220-528-34	Sequence 34, Appl1	911	28	56.0	141	2	US-10-141-645-125	Sequence 125, App
839	28	56.0	113	2	US-09-347-613C-7	Sequence 7, Appl1	912	28	56.0	141	2	US-09-949-016-8741	Sequence 8741, Ap
840	28	56.0	113	2	US-09-347-613C-12	Sequence 12, Appl1	913	28	56.0	141	2	US-09-438-185A-936	Sequence 936, App
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847	28	56.0	113	2	US-09-940-727B-104	Sequence 104, App	920	28	56.0	149	2	US-09-452-991A-18802	Sequence 18802, A
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852	28	56.0	116	2	US-09-347-613C-6	Sequence 6, Appl1	925	28	56.0	152	2	US-09-352-991A-24626	Sequence 24626, A
853	28	56.0	116	2	US-09-347-613C-11	Sequence 11, Appl1	926	28	56.0	152	2	US-09-352-991A-24753	Sequence 24753, A
854	28	56.0	116	2	US-09-662-183A-6	Sequence 6, Appl1	927	28	56.0	152	2	US-09-270-767-36309	Sequence 36309, A
855	28	56.0	116	2	US-09-662-183A-11	Sequence 11, Appl1	928	28	56.0	152	2	US-09-270-767-51526	Sequence 51526, A
856	28	56.0	117	2	US-09-080-554-21	Sequence 21, Appl1	929	28	56.0	153	2	US-09-252-991A-21065	Sequence 21065, A
857	28	56.0	117	2	US-09-621-976-7671	Sequence 7671, App	930	28	56.0	153	2	US-09-252-991A-30498	Sequence 30498, A
858	28	56.0	117	2	US-09-530-139-20	Sequence 20, Appl1	931	28	56.0	155	2	US-09-501-115-48	Sequence 48, Appl
859	28	56.0	118	2	US-10-141-645-121	Sequence 121, App	932	28	56.0	155	2	US-10-357-886-48	Sequence 48, Appl
860	28	56.0	118	2	US-09-248-796A-26791	Sequence 26791, A	933	28	56.0	156	2	US-10-357-886-217	Sequence 217, App
861	28	56.0	122	2	US-09-949-016-8157	Sequence 8157, App	934	28	56.0	156	2	US-09-347-613C-36	Sequence 36, Appl1
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864	28	56.0	125	2	US-09-554-765-9	Sequence 9, Appl1	937	28	56.0	156	2	US-09-270-767-45739	Sequence 45739, A
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866	28	56.0	128	2	US-09-158-452A-1180	Sequence 1180, App	939	28	56.0	156	2	US-09-662-183A-36	Sequence 36, Appl
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872	28	56.0	131	2	US-09-251-835-5	Sequence 5, Appl1	945	28	56.0	160	2	US-09-252-991A-18983	Sequence 18983, A
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878	28	56.0	131	2	US-09-949-016-6211	Sequence 6211, App	951	28	56.0	171	2	US-10-101-664A-500	Sequence 500, App
879	28	56.0	131	2	US-09-934-773-5	Sequence 5, Appl1	952	28	56.0	171	2	US-09-252-991A-16603	Sequence 16603, A
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883	28	56.0	133	2	US-09-220-407-132	Sequence 132, App	956	28	56.0	177	2	US-09-198-452A-18269	Sequence 18269, A
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894	28	56.0	139	2	US-09-270-767-60856	Sequence 60856, App	967	28	56.0	185	2	US-09-270-767-51725	Sequence 51725, A
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995 28 56.0 200 2 US-09-347-613C-2 Sequence 2, Appl1
996 28 56.0 200 2 US-09-662-183A-2 Sequence 2, Appl1
997 28 56.0 203 2 US-09-788-654A-2 Sequence 2, Appl1
998 28 56.0 205 2 US-09-252-991A-20881 Sequence 20881, A
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1000 28 56.0 220 2 US-09-220-528-26 Sequence 26, Appl

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ALIGNMENTS

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RESULT 1
US-08-934-915-167
; Sequence 167, Application US/08934915
; Patent No. 5932412
; GENERAL INFORMATION:
; APPLICANT: DILLNER, JOAKIM
; APPLICANT: DILLNER, LENA
; TITLE OF INVENTION: SYNTHETIC PEPTIDES OF HUMAN
; TITLE OF INVENTION: PAPILLOMAVIRUS 1, 5, 6, 8,
; TITLE OF INVENTION: 11, 16, 18, 31, 33 AND 56,
; TITLE OF INVENTION: USEFUL IN IMMUNOASSAY FOR
; TITLE OF INVENTION: DIAGNOSTIC PURPOSES
; NUMBER OF SEQUENCES: 193
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MASON & ASSOCIATES, P.A.
; STREET: 17157 U.S. HWY. 19 NORTH, SUITE 500
; CITY: CLEARWATER
; STATE: FLORIDA
; COUNTRY: U.S.A.
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: Windows 3.0
; SOFTWARE: Microsoft Word 6.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/934,915
; FILING DATE: 22-SEP-1997
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 07/949,836
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: LOUISE A. FOULCH
; REGISTRATION NUMBER: 37,133
; REFERENCE/DOCKET NUMBER: 1946.6
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 813-538-3800
; TELEFAX: 813-538-3820
; TELEX:
; INFORMATION FOR SEQ ID NO: 167:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 21 amino acids
; TYPE: amino acid

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; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; US-08-934-915-167

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Best Local Similarity 100.0%; Pred. No. 0.36;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Qy 1 MSCRSSRT 9
Db 7 MSCRSSRT 15

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RESULT 2
US-09-701-080C-18
; Sequence 18, Application US/09701080C
; Patent No. 6864054
; GENERAL INFORMATION:
; APPLICANT: INSTITUTE OF MOLECULAR AND CELL BIOLOGY
; TITLE OF INVENTION: POLYPEPTIDES FROM CREB BINDING PROTEIN AND RELATED PROTEIN P300 FC
; FILE REFERENCE: N73477C GCW
; CURRENT APPLICATION NUMBER: US/09/701,080C
; PRIOR FILING DATE: 2001-02-27
; PRIOR APPLICATION NUMBER: GB 9811303.8
; PRIOR FILING DATE: 1998-05-26
; PRIOR APPLICATION NUMBER: GB 9900157.0
; PRIOR FILING DATE: 1999-01-05
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 18
; LENGTH: 151
; TYPE: PRT
; ORGANISM: Human papillomavirus
; US-09-701-080C-18

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Query Match 100.0%; Score 50; DB 2; Length 151;
Best Local Similarity 100.0%; Pred. No. 1.8;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Qy 1 MSCRSSRT 9
Db 137 MSCRSSRT 145

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RESULT 3
US-09-980-523A-2
; Sequence 2, Application US/09980523A
; Patent No. 6783763
; GENERAL INFORMATION:
; APPLICANT: CHOPPIN, JEANNINE
; APPLICANT: BOURGAULT VILADA, ISABELLE
; APPLICANT: GUILLET, JEAN-GERARD
; APPLICANT: CONNAN, FRANCINE
; APPLICANT: FERRIES, ESTELLE
; TITLE OF INVENTION: POLYPEPTIDIC PROTEIN FRAGMENTS OF THE B6 AND E7
; TITLE OF INVENTION: PROTEINS OF HPV, THEIR PRODUCTION AND THEIR USE
; TITLE OF INVENTION: PARTICULARLY IN VACCINATION
; FILE REFERENCE: WO/1 AO INS
; CURRENT APPLICATION NUMBER: US/09/980,523A
; PRIOR FILING DATE: 2002-04-29
; PRIOR APPLICATION NUMBER: PCT/FR00/01513
; PRIOR FILING DATE: 2000-05-31
; PRIOR APPLICATION NUMBER: FR 99/07012
; PRIOR FILING DATE: 1999-06-03
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 2
; LENGTH: 158
; TYPE: PRT
; ORGANISM: Human Papillomavirus
; US-09-980-523A-2

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Query Match 100.0%; Score 50; DB 2; Length 158;
Best Local Similarity 100.0%; Pred. No. 1.9;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 144 MSCCRSRT 152

RESULT 4

US-08-316-239B-3
Sequence 3, Application US/08316239B
Patent No. 5679509
GENERAL INFORMATION:
APPLICANT: Wheeler, Cosette M.
APPLICANT: Parmenter, Cheryl A.
TITLE OF INVENTION: Methods and a Diagnostic Aid for
TITLE OF INVENTION: Distinguishing a Subset of HPV that is Associated with an
TITLE OF INVENTION: Increased Risk of Developing Cervical Dysplasia and
TITLE OF INVENTION: Cervical Cancer
NUMBER OF SEQUENCES: 4
CORRESPONDENCE ADDRESS:
ADDRESSEE: Jagtiani & Associates
STREET: 6126 Rocky Way Court
CITY: Centreville
STATE: VA
COUNTRY: USA
ZIP: 20120-3400
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/316,239B
FILING DATE: 30-SEP-1994
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Jagtiani, Ajay A.
REGISTRATION NUMBER: 35,205
REFERENCE/DOCKET NUMBER: UNME-0001
TELECOMMUNICATION INFORMATION:
TELEPHONE: (703) 817-9453
TELEFAX: (703) 803-9387
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 162 amino acids
TYPE: amino acid
STRANDEDNESS: not relevant
TOPOLOGY: not relevant
MOLECULE TYPE: protein
HYPOTHETICAL: NO
US-08-316-239B-3

Query Match 100.0%; Score 50; DB 1; Length 162;
Best Local Similarity 100.0%; Pred. No. 1.9;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MSCCRSRT 9
Db 144 MSCCRSRT 152

RESULT 5

US-08-316-239B-4
Sequence 4, Application US/08316239B
Patent No. 5679509
GENERAL INFORMATION:
APPLICANT: Wheeler, Cosette M.
APPLICANT: Parmenter, Cheryl A.
TITLE OF INVENTION: Methods and a Diagnostic Aid for
TITLE OF INVENTION: Distinguishing a Subset of HPV that is Associated with an
TITLE OF INVENTION: Increased Risk of Developing Cervical Dysplasia and

TITLE OF INVENTION: Cervical Cancer
NUMBER OF SEQUENCES: 4
CORRESPONDENCE ADDRESS:
ADDRESSEE: Jagtiani & Associates
STREET: 6126 Rocky Way Court
CITY: Centreville
STATE: VA
COUNTRY: USA
ZIP: 20120-3400
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/316,239B
FILING DATE: 30-SEP-1994
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Jagtiani, Ajay A.
REGISTRATION NUMBER: 35,205
REFERENCE/DOCKET NUMBER: UNME-0001
TELECOMMUNICATION INFORMATION:
TELEPHONE: (703) 817-9453
TELEFAX: (703) 803-9387
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 162 amino acids
TYPE: amino acid
STRANDEDNESS: not relevant
TOPOLOGY: not relevant
MOLECULE TYPE: protein
HYPOTHETICAL: NO
US-08-316-239B-4

Query Match 100.0%; Score 50; DB 1; Length 162;
Best Local Similarity 100.0%; Pred. No. 1.9;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 144 MSCCRSRT 152

RESULT 6

US-08-860-165-12
Sequence 12, Application US/08860165A
Patent No. 6004557
GENERAL INFORMATION:
APPLICANT: EDWARDS, Stirling John
APPLICANT: COX, John Cooper
APPLICANT: WEBB, Elizabeth Ann
APPLICANT: FRAZER, Ian
TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
FILE REFERENCE: 17227/130
CURRENT APPLICATION NUMBER: US/08/860,165A
CURRENT FILING DATE: 1997-09-22
EARLIER APPLICATION NUMBER: PCT/AU95/00868
EARLIER FILING DATE: 1995-12-20
EARLIER APPLICATION NUMBER: AU PN0157
EARLIER FILING DATE: 1994-12-20
NUMBER OF SEQ ID NOS: 15
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 12
LENGTH: 172
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURES:
OTHER INFORMATION: Description of Artificial Sequence: Gene Fusion
US-08-860-165-12

Query Match 100.0%; Score 50; DB 2; Length 172;
Best Local Similarity 100.0%; Pred. No. 2;

Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MSCCRSSRT 9

Db 82 MSCCRSSRT 90

RESULT 7

US-09-359-382-12
; Sequence 12, Application US/09359382
; Patent No. 6306397
; GENERAL INFORMATION:
; APPLICANT: EDWARDS, Stirling John
; APPLICANT: COX, John Cooper
; APPLICANT: WEBB, Elizabeth Ann
; APPLICANT: FRAZER, Ian
; TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
; FILE REFERENCE: 017227/0148
; CURRENT APPLICATION NUMBER: US/09/359,382
; EARLIER FILING DATE: 1999-07-23
; EARLIER APPLICATION NUMBER: US 08/860,165
; EARLIER FILING DATE: 1997-09-22
; EARLIER APPLICATION NUMBER: PCT/AU95/00868
; EARLIER FILING DATE: 1995-12-20
; EARLIER APPLICATION NUMBER: AU PN0157/94
; EARLIER FILING DATE: 1994-12-20
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 12
; LENGTH: 172
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-09-359-382-12

Query Match 100.0%; Score 50; DB 2; Length 172;

Best Local Similarity 100.0%; Pred. No. 2;

Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MSCCRSSRT 9

Db 82 MSCCRSSRT 90

US-09-462-993-1
; Sequence 1, Application US/09462993
; Patent No. 6884786
; GENERAL INFORMATION:
; APPLICANT: KIENY, Marie-Paule
; APPLICANT: BALLOUT, Jean-Marc
; APPLICANT: BIZOUARNE, Nadine
; TITLE OF INVENTION: ANTITUMORAL COMPOSITION BASED ON IMMUNOGENIC
; FILE REFERENCE: 017753-122
; CURRENT APPLICATION NUMBER: US/09/462,993
; CURRENT FILING DATE: 2000-04-17
; PRIOR APPLICATION NUMBER: PCT/FR98/01576
; PRIOR FILING DATE: 1998-07-17
; PRIOR APPLICATION NUMBER: FR 97/09152
; PRIOR FILING DATE: 1997-07-18
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: PatentIn Ver. 2.2
; SEQ ID NO 1
; LENGTH: 243
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Derived from
; OTHER INFORMATION: human papillomavirus, strain HPV-16, E6 protein
; OTHER INFORMATION: fused F protein signals, clone E6*TMF.
US-09-462-993-1

Query Match 100.0%; Score 50; DB 2; Length 243;

Best Local Similarity 100.0%; Pred. No. 2.6;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MSCCRSSRT 9

Db 167 MSCCRSSRT 175

RESULT 9

US-08-860-165-10
; Sequence 10, Application US/08860165A
; Patent No. 6004557
; GENERAL INFORMATION:
; APPLICANT: EDWARDS, Stirling John
; APPLICANT: COX, John Cooper
; APPLICANT: WEBB, Elizabeth Ann
; APPLICANT: FRAZER, Ian
; TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
; FILE REFERENCE: 17227/130
; CURRENT APPLICATION NUMBER: US/08/860,165A
; CURRENT FILING DATE: 1997-09-22
; EARLIER APPLICATION NUMBER: PCT/AU95/00868
; EARLIER FILING DATE: 1995-12-20
; EARLIER APPLICATION NUMBER: AU PN0157
; EARLIER FILING DATE: 1994-12-20
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 10
; LENGTH: 266
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Gene Fusion
US-08-860-165-10

Query Match 100.0%; Score 50; DB 2; Length 266;

Best Local Similarity 100.0%; Pred. No. 2.8;

Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MSCCRSSRT 9

Db 144 MSCCRSSRT 152

US-09-359-382-10
; Sequence 10, Application US/09359382
; Patent No. 6306397
; GENERAL INFORMATION:
; APPLICANT: EDWARDS, Stirling John
; APPLICANT: COX, John Cooper
; APPLICANT: WEBB, Elizabeth Ann
; APPLICANT: FRAZER, Ian
; TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
; FILE REFERENCE: 017227/0148
; CURRENT APPLICATION NUMBER: US/09/359,382
; CURRENT FILING DATE: 1999-07-23
; EARLIER APPLICATION NUMBER: US 08/860,165
; EARLIER FILING DATE: 1997-09-22
; EARLIER APPLICATION NUMBER: PCT/AU95/00868
; EARLIER FILING DATE: 1995-12-20
; EARLIER APPLICATION NUMBER: AU PN0157/94
; EARLIER FILING DATE: 1994-12-20
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 10
; LENGTH: 266
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-09-359-382-10

Query Match 100.0%; Score 50; DB 2; Length 266;
Best Local Similarity 100.0%; Pred. No. 2.8;

Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MSCRSSRT 9
144 MSCRSSRT 152

Db 144 MSCRSSRT 152

RESULT 11

US-09-367-309A-1
Sequence 1, Application US/09367309A

Patent No. 6428807

GENERAL INFORMATION:

APPLICANT: MACFARLAN, ROBERT I.

APPLICANT: MALLIAROS, JIM

TITLE OF INVENTION: CHELATING IMMUNOSTIMULATING COMPLEXES

FILE REFERENCE: 01727/0149

CURRENT APPLICATION NUMBER: US/09/367,309A

PRIOR FILING DATE: 1999-08-11

PRIOR APPLICATION NUMBER: PCT/AU98/00080

PRIOR FILING DATE: 1998-02-13

PRIOR APPLICATION NUMBER: AU PO 5178

PRIOR FILING DATE: 1997-02-19

NUMBER OF SEQ ID NOS: 6

SOFTWARE: Patentin Ver. 2.1

SEQ ID NO 1

LENGTH: 266

TYPE: PRT

ORGANISM: Human papillomavirus type 16

US-09-367-309A-1

Query Match 100.0%; Score 50; DB 2; Length 266;

Best Local Similarity 100.0%; Pred. No. 2.8;

Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MSCRSSRT 9
144 MSCRSSRT 152

Db 144 MSCRSSRT 152

RESULT 12

US-09-485-885-4

Sequence 4, Application US/09485885

Patent No. 6342224

GENERAL INFORMATION:

APPLICANT: Bruck, Claudine

APPLICANT: Cabezon Silva, Teresa

APPLICANT: Delisse, Anne-Marie Eva Bernande

APPLICANT: Gerard, Catherine Marie Ghislaine

APPLICANT: Lombardo-Benchelkh, Angela

TITLE OF INVENTION: Vaccine

FILE REFERENCE: B45107

CURRENT APPLICATION NUMBER: US/09/485,885

PRIOR FILING DATE: 2000-02-18

PRIOR APPLICATION NUMBER: PCT/EP98/05285

PRIOR FILING DATE: 1998-08-17

PRIOR APPLICATION NUMBER: GB 9717953.5

PRIOR FILING DATE: 1997-08-22

NUMBER OF SEQ ID NOS: 23

SOFTWARE: FastSeq for Windows Version 3.0

SEQ ID NO 4

LENGTH: 273

TYPE: PRT

ORGANISM: Homo sapien

US-09-485-885-4

Query Match 100.0%; Score 50; DB 2; Length 273;

Best Local Similarity 100.0%; Pred. No. 2.9;

Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MSCRSSRT 9
250 MSCRSSRT 258

Db 250 MSCRSSRT 258

RESULT 13

US-09-485-885-10

Sequence 10, Application US/09485885

Patent No. 6342224

GENERAL INFORMATION:

APPLICANT: Bruck, Claudine

APPLICANT: Cabezon Silva, Teresa

APPLICANT: Delisse, Anne-Marie Eva Bernande

APPLICANT: Gerard, Catherine Marie Ghislaine

APPLICANT: Lombardo-Benchelkh, Angela

TITLE OF INVENTION: Vaccine

FILE REFERENCE: B45107

CURRENT APPLICATION NUMBER: US/09/485,885

PRIOR FILING DATE: 2000-02-18

PRIOR APPLICATION NUMBER: PCT/EP98/05285

PRIOR FILING DATE: 1998-08-17

PRIOR APPLICATION NUMBER: GB 9717953.5

PRIOR FILING DATE: 1997-08-22

NUMBER OF SEQ ID NOS: 23

SOFTWARE: FastSeq for Windows Version 3.0

SEQ ID NO 10

LENGTH: 292

TYPE: PRT

ORGANISM: Homo sapien

US-09-485-885-10

Query Match 100.0%; Score 50; DB 2; Length 292;

Best Local Similarity 100.0%; Pred. No. 3.1;

Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MSCRSSRT 9
269 MSCRSSRT 277

Db 269 MSCRSSRT 277

RESULT 14

US-09-485-885-6

Sequence 6, Application US/09485885

Patent No. 6342224

GENERAL INFORMATION:

APPLICANT: Bruck, Claudine

APPLICANT: Cabezon Silva, Teresa

APPLICANT: Delisse, Anne-Marie Eva Bernande

APPLICANT: Gerard, Catherine Marie Ghislaine

APPLICANT: Lombardo-Benchelkh, Angela

TITLE OF INVENTION: Vaccine

FILE REFERENCE: B45107

CURRENT APPLICATION NUMBER: US/09/485,885

PRIOR FILING DATE: 2000-02-18

PRIOR APPLICATION NUMBER: PCT/EP98/05285

PRIOR FILING DATE: 1998-08-17

PRIOR APPLICATION NUMBER: GB 9717953.5

PRIOR FILING DATE: 1997-08-22

NUMBER OF SEQ ID NOS: 23

SOFTWARE: FastSeq for Windows Version 3.0

SEQ ID NO 6

LENGTH: 371

TYPE: PRT

ORGANISM: Homo sapien

US-09-485-885-6

Query Match 100.0%; Score 50; DB 2; Length 371;

Best Local Similarity 100.0%; Pred. No. 3.7;

Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MSCRSSRT 9
258 MSCRSSRT 258

Db 258 MSCRSSRT 258

RESULT 15

US-09-485-885-14

```
; Sequence 14, Application US/09485885
; Patent No. 6342224
; GENERAL INFORMATION:
; APPLICANT: Bruck, Claudine
; APPLICANT: Cabezon Silva, Teresa
; APPLICANT: Delisse, Anne-Marie Eva Fernande
; APPLICANT: Gerard, Catherine Marie Ghislaine
; APPLICANT: Lombardo-Bencheikh, Angela
; TITLE OF INVENTION: Vaccine
; FILE REFERENCE: B45107
; CURRENT APPLICATION NUMBER: US/09/485,885
; CURRENT FILING DATE: 2000-02-18
; PRIOR APPLICATION NUMBER: PCT/EP98/05285
; PRIOR FILING DATE: 1998-08-17
; PRIOR APPLICATION NUMBER: GB 9717953.5
; PRIOR FILING DATE: 1997-08-22
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 14
; LENGTH: 390
; TYPE: PRT
; ORGANISM: Homo sapien
; US-09-485-885-14

Query Match          100.0%; Score 50; DB 2; Length 390;
Best Local Similarity 100.0%; Pred. No. 3.9;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MSCCRSRT 9
Db 269 MSCCRSRT 277

RESULT 16
; US-09-252-991A-29076
; Sequence 29076, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 29076
; LENGTH: 113
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
; US-09-252-991A-29076

Query Match          76.0%; Score 38; DB 2; Length 113;
Best Local Similarity 75.0%; Pred. No. 73;
Matches 6; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 2 SCCRSRT 9
Db 49 ACCRSRS 56

RESULT 17
; US-09-270-767-32689
; Sequence 32689, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
; APPLICANT: Homburger et al.
; TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
; FILE REFERENCE: File Reference: 7326-094
; CURRENT APPLICATION NUMBER: US/09/270,767
```

```
; CURRENT FILING DATE: 1999-03-17
; NUMBER OF SEQ ID NOS: 62517
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 32689
; LENGTH: 207
; TYPE: PRT
; ORGANISM: Drosophila melanogaster
; US-09-270-767-32689

Query Match          74.0%; Score 37; DB 2; Length 207;
Best Local Similarity 85.7%; Pred. No. 1.7e+02;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 3 CCRSRT 9
Db 106 CCRDSRT 112

RESULT 18
; US-09-270-767-47906
; Sequence 47906, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
; APPLICANT: Homburger et al.
; TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
; FILE REFERENCE: File Reference: 7326-094
; CURRENT APPLICATION NUMBER: US/09/270,767
; CURRENT FILING DATE: 1999-03-17
; NUMBER OF SEQ ID NOS: 62517
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 47906
; LENGTH: 207
; TYPE: PRT
; ORGANISM: Drosophila melanogaster
; US-09-270-767-47906

Query Match          74.0%; Score 37; DB 2; Length 207;
Best Local Similarity 85.7%; Pred. No. 1.7e+02;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 3 CCRSRT 9
Db 106 CCRDSRT 112

RESULT 19
; US-09-252-991A-21156
; Sequence 21156, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 21156
; LENGTH: 136
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
; US-09-252-991A-21156

Query Match          72.0%; Score 36; DB 2; Length 136;
Best Local Similarity 75.0%; Pred. No. 1.6e+02;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 2 SCCRSRT 9
Db 106 CCRDSRT 112
```


DB 67 SCCSASRT 74

RESULT 20

US-09-252-991A-33122
 ; Sequence 33122, Application US/09252991A
 ; Patent No. 6551795
 ; GENERAL INFORMATION:
 ; APPLICANT: Marc J. Rubenfield et al.
 ; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
 ; FILE REFERENCE: 107196.136
 ; CURRENT APPLICATION NUMBER: US/09/252,991A
 ; PRIOR FILING DATE: 1999-02-18
 ; PRIOR APPLICATION NUMBER: US 60/074,788
 ; PRIOR FILING DATE: 1998-02-18
 ; PRIOR APPLICATION NUMBER: US 60/094,190
 ; PRIOR FILING DATE: 1998-07-27
 ; NUMBER OF SEQ ID NOS: 33142
 ; SEQ ID NO 33122
 ; LENGTH: 230
 ; TYPE: PRT
 ; ORGANISM: Pseudomonas aeruginosa
 ; US-09-252-991A-33122

Query Match 72.0%; Score 36; DB 2; Length 230;
 Best Local Similarity 85.7%; Pred. No. 2.5e+02;
 Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 3 CCRSSRT 9
 DB 97 CCRSCRT 103

RESULT 21
 US-09-252-991A-30039
 ; Sequence 30039, Application US/09252991A
 ; Patent No. 6551795
 ; GENERAL INFORMATION:
 ; APPLICANT: Marc J. Rubenfield et al.
 ; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
 ; FILE REFERENCE: 107196.136
 ; CURRENT APPLICATION NUMBER: US/09/252,991A
 ; PRIOR FILING DATE: 1999-02-18
 ; PRIOR APPLICATION NUMBER: US 60/074,788
 ; PRIOR FILING DATE: 1998-02-18
 ; PRIOR APPLICATION NUMBER: US 60/094,190
 ; PRIOR FILING DATE: 1998-07-27
 ; NUMBER OF SEQ ID NOS: 33142
 ; SEQ ID NO 30039
 ; LENGTH: 953
 ; TYPE: PRT
 ; ORGANISM: Pseudomonas aeruginosa
 ; US-09-252-991A-30039

Query Match 72.0%; Score 36; DB 2; Length 953;
 Best Local Similarity 100.0%; Pred. No. 8e+02;
 Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3 CCRSSR 8
 DB 929 CCRSSR 934

RESULT 22
 US-09-964-956-44
 ; Sequence 44, Application US/09964956
 ; Patent No. 6875570
 ; GENERAL INFORMATION:
 ; APPLICANT: Gerlach, Valerie L
 ; APPLICANT: MacDougall, John R
 ; APPLICANT: Smithson, Glenda

APPLICANT: Millet, Isabelle
 APPLICANT: Stone, David
 APPLICANT: Gunther, Erik
 APPLICANT: Ellerman, Karen
 APPLICANT: Grose, William M
 APPLICANT: Alsobrook II, John P
 APPLICANT: Lepley, Denise M
 APPLICANT: Burgess, Catherine E
 APPLICANT: Padigaru, Murallidhara
 APPLICANT: Kekuda, Ramesh
 APPLICANT: Spytek, Kimberly A
 APPLICANT: Leach, Martin D
 APPLICANT: Shinkets, Richard A
 ; TITLE OF INVENTION: No. 6875570el Proteins and Nucleic Acids Encoding Same
 ; FILE REFERENCE: 21402.124
 ; CURRENT APPLICATION NUMBER: US/09/964,956
 ; PRIOR FILING DATE: 2001-09-26
 ; PRIOR APPLICATION NUMBER: 60/235,631
 ; PRIOR FILING DATE: 2000-09-27
 ; PRIOR APPLICATION NUMBER: 60/235,633
 ; PRIOR FILING DATE: 2000-09-27
 ; PRIOR APPLICATION NUMBER: 60/235,808
 ; PRIOR FILING DATE: 2000-09-27
 ; PRIOR APPLICATION NUMBER: 60/236,064
 ; PRIOR FILING DATE: 2000-09-27
 ; PRIOR APPLICATION NUMBER: 60/236,065
 ; PRIOR FILING DATE: 2000-09-27
 ; PRIOR APPLICATION NUMBER: 60/236,066
 ; PRIOR FILING DATE: 2000-09-27
 ; PRIOR APPLICATION NUMBER: 60/236,135
 ; PRIOR FILING DATE: 2000-09-28
 ; PRIOR APPLICATION NUMBER: 60/237,434
 ; PRIOR FILING DATE: 2000-10-03
 ; PRIOR APPLICATION NUMBER: 60/238,321
 ; PRIOR FILING DATE: 2000-10-05
 ; PRIOR APPLICATION NUMBER: 60/238,399
 ; PRIOR FILING DATE: 2000-10-06
 ; PRIOR APPLICATION NUMBER: 60/238,396
 ; PRIOR FILING DATE: 2000-10-06
 ; PRIOR APPLICATION NUMBER: 60/276,667
 ; PRIOR FILING DATE: 2001-03-16
 ; PRIOR APPLICATION NUMBER: 60/294,823
 ; PRIOR FILING DATE: 2001-05-31
 ; PRIOR APPLICATION NUMBER: 60/304,868
 ; PRIOR FILING DATE: 2001-07-12
 ; NUMBER OF SEQ ID NOS: 127
 ; SOFTWARE: PatentIn Ver. 2.1
 ; SEQ ID NO 44
 ; LENGTH: 1905
 ; TYPE: PRT
 ; ORGANISM: Xenopus laevis
 ; US-09-964-956-44

Query Match 72.0%; Score 36; DB 2; Length 1905;
 Best Local Similarity 75.0%; Pred. No. 1.4e+03;
 Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 2 CCRSSRT 9
 DB 1506 CCRSPQT 1513

RESULT 23
 US-09-270-767-58297
 ; Sequence 58297, Application US/09270767
 ; Patent No. 6703491
 ; GENERAL INFORMATION:
 ; APPLICANT: Homburger et al.
 ; TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
 ; FILE REFERENCE: File Reference: 7326-094
 ; CURRENT APPLICATION NUMBER: US/09/270,767
 ; PRIOR FILING DATE: 1999-03-17
 ; NUMBER OF SEQ ID NOS: 62517

SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 58297
; LENGTH: 44
; TYPE: PRT
; ORGANISM: Drosophila melanogaster
; US-09-170-767-58297

Query Match 70.0%; Score 35; DB 2; Length 44;
Best Local Similarity 75.0%; Pred. No. 91;
Matches 6; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2 SCRRSRT 9
Db 19 SCCHSRT 26

RESULT 24
US-08-660-789-6
; Sequence 6, Application US/08660789
; Patent No. 5843405
; GENERAL INFORMATION:
; APPLICANT: Middelorp, Jaap M.
; TITLE OF INVENTION: Epstein Barr Virus peptides and
; TITLE OF INVENTION: antibodies against these peptides
; NUMBER OF SEQUENCES: 10
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Akzo No. 5843405el Patent Department
; STREET: 1300 Piccard Drive, Suite 206
; CITY: Rockville
; STATE: Maryland
; COUNTRY: USA
; ZIP: 20850
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30 (EPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/660,789
; FILING DATE: 06-JUN-1996
; ATTORNEY/AGENT INFORMATION:
; NAME: Gormley, Mary E.
; REGISTRATION NUMBER: 34,409
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (301) 258-5200
; TELEFAX: (301) 977-0847
; INFORMATION FOR SEQ ID NO: 6:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 47 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; ORIGINAL SOURCE:
; ORGANISM: Epstein-Barr virus
; FEATURE:
; NAME/KEY: Disulfide-bond
; LOCATION: 21..22
; OTHER INFORMATION: /note= "The two cysteine residues
; OTHER INFORMATION: (AA 20 and AA 21) are introduced to link two separate
; OTHER INFORMATION: peptides."
; US-08-660-789-6

Query Match 70.0%; Score 35; DB 1; Length 47;
Best Local Similarity 75.0%; Pred. No. 96;
Matches 6; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2 SCRRSRT 9
Db 19 SCCHSRT 26

RESULT 25

US-09-074-114-6
; Sequence 6, Application US/09074114
; Patent No. 6143865
; GENERAL INFORMATION:
; APPLICANT: Middelorp, Jaap Michiel
; TITLE OF INVENTION: Epstein Barr Virus peptides and
; TITLE OF INVENTION: antibodies against these peptides
; NUMBER OF SEQUENCES: 10
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Akzo No. 6143865el Patent Dept.
; STREET: 1300 Piccard Drive, Suite 206
; CITY: Rockville
; STATE: Maryland
; COUNTRY: US
; ZIP: 20850

COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/074,114
; FILING DATE: 07-MAY-1998
; CLASSIFICATION: 424
; ATTORNEY/AGENT INFORMATION:
; NAME: Klesner, Sharon N.
; REGISTRATION NUMBER: 36,335
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 301-948-7400
; TELEFAX: 301-948-9751
; INFORMATION FOR SEQ ID NO: 6:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 47 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; ORIGINAL SOURCE:
; ORGANISM: Epstein-Barr virus
; FEATURE:
; NAME/KEY: Disulfide-bond
; LOCATION: 21..22
; OTHER INFORMATION: /note= "The two cysteine residues
; OTHER INFORMATION: (AA 20 and AA 21) are introduced to link two
; OTHER INFORMATION: separate peptides."
; US-09-074-114-6

Query Match 70.0%; Score 35; DB 2; Length 47;
Best Local Similarity 75.0%; Pred. No. 96;
Matches 6; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2 SCRRSRT 9
Db 19 SCCHSRT 26

RESULT 26
US-09-252-991A-25071
; Sequence 25071, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfeld et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; PRIOR FILING DATE: 1999-02-18
; CURRENT FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-07-27
; PRIOR APPLICATION NUMBER: US 60/094,190
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 25071

LENGTH: 87
TYPE: PRT
ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-25071

Query Match 70.0%; Score 35; DB 2; Length 87;
Best Local Similarity 85.7%; Pred. No. 1.6e+02;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 3 CCRSSRT 9
DB 53 CCRSSRT 59

RESULT 27
US-09-252-991A-29444
Sequence 29444, Application US/09252991A
Patent No. 6551795
GENERAL INFORMATION:

APPLICANT: Marc J. Rubenfield et al.
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
FILE REFERENCE: 107196.136
CURRENT APPLICATION NUMBER: US/09/252,991A
CURRENT FILING DATE: 1999-02-18
PRIOR APPLICATION NUMBER: US 60/074,788
PRIOR FILING DATE: 1998-02-18
PRIOR APPLICATION NUMBER: US 60/094,190
PRIOR FILING DATE: 1998-07-27
NUMBER OF SEQ ID NOS: 33142
SEQ ID NO 29444
LENGTH: 109
TYPE: PRT
ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-29444

Query Match 70.0%; Score 35; DB 2; Length 109;
Best Local Similarity 75.0%; Pred. No. 1.9e+02;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 2 CCRSSRT 9
DB 89 ACCRSSPT 96

RESULT 28
US-09-270-767-35721
Sequence 35721, Application US/09270767
Patent No. 6703491
GENERAL INFORMATION:
APPLICANT: Homburger et al.
TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
FILE REFERENCE: File Reference: 7326-094
CURRENT APPLICATION NUMBER: US/09/270,767
CURRENT FILING DATE: 1999-03-17
NUMBER OF SEQ ID NOS: 62517
SOFTWARE: Patent In Ver. 2.0
SEQ ID NO 35721
LENGTH: 140
TYPE: PRT
ORGANISM: Drosophila melanogaster
US-09-270-767-35721

Query Match 70.0%; Score 35; DB 2; Length 140;
Best Local Similarity 75.0%; Pred. No. 2.3e+02;
Matches 6; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2 CCRSSRT 9
DB 27 SCCRSSST 34

RESULT 29

US-09-270-767-50938
Sequence 50938, Application US/09270767
Patent No. 6703491
GENERAL INFORMATION:

APPLICANT: Homburger et al.
TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
FILE REFERENCE: File Reference: 7326-094
CURRENT APPLICATION NUMBER: US/09/270,767
CURRENT FILING DATE: 1999-03-17
NUMBER OF SEQ ID NOS: 62517
SOFTWARE: Patent In Ver. 2.0
SEQ ID NO 50938
LENGTH: 140
TYPE: PRT
ORGANISM: Drosophila melanogaster
US-09-270-767-50938

Query Match 70.0%; Score 35; DB 2; Length 140;
Best Local Similarity 75.0%; Pred. No. 2.3e+02;
Matches 6; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2 CCRSSRT 9
DB 27 SCCRSSST 34

RESULT 30
US-09-252-991A-17724
Sequence 17724, Application US/09252991A
Patent No. 6551795
GENERAL INFORMATION:
APPLICANT: Marc J. Rubenfield et al.
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
FILE REFERENCE: 107196.136
CURRENT APPLICATION NUMBER: US/09/252,991A
CURRENT FILING DATE: 1999-02-18
PRIOR APPLICATION NUMBER: US 60/074,788
PRIOR FILING DATE: 1998-02-18
PRIOR APPLICATION NUMBER: US 60/094,190
PRIOR FILING DATE: 1998-07-27
NUMBER OF SEQ ID NOS: 33142
SEQ ID NO 17724
LENGTH: 147
TYPE: PRT
ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-17724

Query Match 70.0%; Score 35; DB 2; Length 147;
Best Local Similarity 85.7%; Pred. No. 2.4e+02;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2 CCRSSRT 8
DB 134 SCCNSR 140

RESULT 31
US-09-252-991A-32502
Sequence 32502, Application US/09252991A
Patent No. 6551795
GENERAL INFORMATION:
APPLICANT: Marc J. Rubenfield et al.
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
FILE REFERENCE: 107196.136
CURRENT APPLICATION NUMBER: US/09/252,991A
CURRENT FILING DATE: 1999-02-18
PRIOR APPLICATION NUMBER: US 60/074,788
PRIOR FILING DATE: 1998-02-18
PRIOR APPLICATION NUMBER: US 60/094,190
PRIOR FILING DATE: 1998-07-27
NUMBER OF SEQ ID NOS: 33142

```
; SEQ ID NO 32502
; LENGTH: 168
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-32502

Query Match
Best Local Similarity 85.7%; Score 35; DB 2; Length 168;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2 SCCRSRT 8
Db 148 SCCRSRT 154

RESULT 32
US-09-270-767-42972
; Sequence 42972, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
; APPLICANT: Homburger et al.
; TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
; FILE REFERENCE: File Reference: 7326-094
; CURRENT APPLICATION NUMBER: US/09/270,767
; CURRENT FILING DATE: 1999-03-17
; NUMBER OF SEQ ID NOS: 62517
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 42972
; LENGTH: 214
; TYPE: PRT
; ORGANISM: Drosophila melanogaster
; FEATURE:
; OTHER INFORMATION: Xaa means any amino acid
US-09-270-767-42972

Query Match
Best Local Similarity 70.0%; Score 35; DB 2; Length 214;
Matches 6; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2 SCCRSRT 9
Db 19 SCCRSRT 26

RESULT 33
US-09-252-991A-20916
; Sequence 20916, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 20916
; LENGTH: 654
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-20916

Query Match
Best Local Similarity 70.0%; Score 35; DB 2; Length 654;
Matches 5; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY 2 SCCRSRT 9
Db 315 ACCRSARS 322
```

```
RESULT 34
US-09-860-793-8
; Sequence 8, Application US/09860793
; Patent No. 6559121
; GENERAL INFORMATION:
; APPLICANT: Pruett, John H
; APPLICANT: Remeyer, Kevin B
; APPLICANT: Kunz, Sidney E
; APPLICANT: Fisher, William F
; TITLE OF INVENTION: Vaccines for the Protection of Cattle from Psoroptic
; FILE REFERENCE: Docket 0047.96 - John H. Pruett et al.
; CURRENT APPLICATION NUMBER: US/09/860,793
; CURRENT FILING DATE: 2001-05-18
; PRIOR APPLICATION NUMBER: 09/366,603
; PRIOR FILING DATE: 1999-08-03
; NUMBER OF SEQ ID NOS: 25
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 8
; LENGTH: 23
; TYPE: PRT
; ORGANISM: Psoroptes ovis
US-09-860-793-8

Query Match
Best Local Similarity 68.0%; Score 34; DB 2; Length 23;
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 2 SCCRSRT 9
Db 15 NCCRCART 22

RESULT 35
US-09-894-882-360
; Sequence 360, Application US/09894882
; Patent No. 6767895
; GENERAL INFORMATION:
; APPLICANT: University of Utah Research Foundation
; APPLICANT: Cognetix, Inc.
; APPLICANT: Walker, Craig S.
; APPLICANT: Shetty, Reshma
; APPLICANT: Jimenez, Eleie C.
; APPLICANT: McIntosh, J. Michael
; APPLICANT: Oliveira, Baldomeiro M.
; APPLICANT: Watkins, Maren
; APPLICANT: Jones, Robert M.
; APPLICANT: Shen, Greg S.
; TITLE OF INVENTION: I-Superfamily Conotoxins
; FILE REFERENCE: 2314-238
; CURRENT APPLICATION NUMBER: US/09/894,882
; CURRENT FILING DATE: 2001-06-29
; PRIOR APPLICATION NUMBER: US 60/
; PRIOR FILING DATE: 2000-06-30
; PRIOR APPLICATION NUMBER: US 60/243,410
; PRIOR FILING DATE: 2000-10-27
; PRIOR APPLICATION NUMBER: US 60/246,581
; PRIOR FILING DATE: 2000-11-08
; PRIOR APPLICATION NUMBER: US 60/247,714
; PRIOR FILING DATE: 2000-11-14
; PRIOR APPLICATION NUMBER: US 60/264,256
; PRIOR FILING DATE: 2001-01-29
; NUMBER OF SEQ ID NOS: 506
; SOFTWARE: Patentin version 3.0
; SEQ ID NO 360
; LENGTH: 31
; TYPE: PRT
; ORGANISM: Conus episcopatatus
; FEATURE:
; NAME/KEY: PEPTIDE
; LOCATION: (1)..(31)
```

OTHER INFORMATION: Xaa at residues 7, 27 and 31 is Pro or hydroxy-Pro; Xaa at residue
OTHER INFORMATION: e 4 is Glu or gamma-carboxy-Gl.
US-09-894-882-360

Query Match 68.0%; Score 34; DB 2; Length 31;
Best Local Similarity 75.0%; Pred. No. 95;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 2 SCCRST 9
Db 18 SCCRSTCT 25

RESULT 36
US-09-894-882-363
Sequence 363, Application US/09894882
Patent No. 6767895
GENERAL INFORMATION:
APPLICANT: University of Utah Research Foundation
APPLICANT: Cognetix, Inc.
APPLICANT: Walker, Craig S.
APPLICANT: Shetty, Reshma
APPLICANT: Jimenez, Elsie C.
APPLICANT: McIntosh, J. Michael
APPLICANT: Olivera, Baldomero M.
APPLICANT: Watkins, Maren
APPLICANT: Jones, Robert M.
APPLICANT: Shen, Greg S.
TITLE OF INVENTION: I-Superfamily Conotoxins
FILE REFERENCE: 2314-238
CURRENT APPLICATION NUMBER: US/09/894, 882
CURRENT FILING DATE: 2001-06-29
PRIOR APPLICATION NUMBER: US 60/
PRIOR FILING DATE: 2000-06-30
PRIOR APPLICATION NUMBER: US 60/243,410
PRIOR FILING DATE: 2000-10-27
PRIOR APPLICATION NUMBER: US 60/246,581
PRIOR FILING DATE: 2000-11-08
PRIOR APPLICATION NUMBER: US 60/247,714
PRIOR FILING DATE: 2000-11-14
PRIOR APPLICATION NUMBER: US 60/264,256
PRIOR FILING DATE: 2001-01-29
NUMBER OF SEQ ID NOS: 506
SOFTWARE: PatentIn version 3.0
SEQ ID NO: 363
LENGTH: 31
TYPE: PRT
ORGANISM: Conus episcopatulus
FEATURE:
NAME/KEY: PEPTIDE
LOCATION: (1)-(31)
OTHER INFORMATION: Xaa at residues 2, 27 and 31 is Pro or hydroxy-Pro; Xaa at residue
OTHER INFORMATION: e 4 is Glu or gamma-carboxy-Gl
US-09-894-882-363

Query Match 68.0%; Score 34; DB 2; Length 31;
Best Local Similarity 75.0%; Pred. No. 95;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 2 SCCRST 9
Db 18 SCCRSTCT 25

RESULT 37
US-09-894-882-479
Sequence 479, Application US/09894882
Patent No. 6767895
GENERAL INFORMATION:
APPLICANT: University of Utah Research Foundation
APPLICANT: Cognetix, Inc.
APPLICANT: Walker, Craig S.
APPLICANT: Shetty, Reshma

APPLICANT: Jimenez, Elsie C.
APPLICANT: McIntosh, J. Michael
APPLICANT: Olivera, Baldomero M.
APPLICANT: Watkins, Maren
APPLICANT: Jones, Robert M.
APPLICANT: Shen, Greg S.
TITLE OF INVENTION: I-Superfamily Conotoxins
FILE REFERENCE: 2314-238
CURRENT APPLICATION NUMBER: US/09/894, 882
CURRENT FILING DATE: 2001-06-29
PRIOR APPLICATION NUMBER: US 60/
PRIOR FILING DATE: 2000-06-30
PRIOR APPLICATION NUMBER: US 60/243,410
PRIOR FILING DATE: 2000-10-27
PRIOR APPLICATION NUMBER: US 60/246,581
PRIOR FILING DATE: 2000-11-08
PRIOR APPLICATION NUMBER: US 60/247,714
PRIOR FILING DATE: 2000-11-14
PRIOR APPLICATION NUMBER: US 60/264,256
PRIOR FILING DATE: 2001-01-29
NUMBER OF SEQ ID NOS: 506
SOFTWARE: PatentIn version 3.0
SEQ ID NO: 479
LENGTH: 31
TYPE: PRT
ORGANISM: Conus episcopatulus
US-09-894-882-479

Query Match 68.0%; Score 34; DB 2; Length 31;
Best Local Similarity 75.0%; Pred. No. 95;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 2 SCCRST 9
Db 18 SCCRSTCT 25

RESULT 38
US-09-894-882-480
Sequence 480, Application US/09894882
Patent No. 6767895
GENERAL INFORMATION:
APPLICANT: University of Utah Research Foundation
APPLICANT: Cognetix, Inc.
APPLICANT: Walker, Craig S.
APPLICANT: Shetty, Reshma
APPLICANT: Jimenez, Elsie C.
APPLICANT: McIntosh, J. Michael
APPLICANT: Olivera, Baldomero M.
APPLICANT: Watkins, Maren
APPLICANT: Jones, Robert M.
APPLICANT: Shen, Greg S.
TITLE OF INVENTION: I-Superfamily Conotoxins
FILE REFERENCE: 2314-238
CURRENT APPLICATION NUMBER: US/09/894, 882
CURRENT FILING DATE: 2001-06-29
PRIOR APPLICATION NUMBER: US 60/
PRIOR FILING DATE: 2000-06-30
PRIOR APPLICATION NUMBER: US 60/243,410
PRIOR FILING DATE: 2000-10-27
PRIOR APPLICATION NUMBER: US 60/246,581
PRIOR FILING DATE: 2000-11-08
PRIOR APPLICATION NUMBER: US 60/247,714
PRIOR FILING DATE: 2000-11-14
PRIOR APPLICATION NUMBER: US 60/264,256
PRIOR FILING DATE: 2001-01-29
NUMBER OF SEQ ID NOS: 506
SOFTWARE: PatentIn version 3.0
SEQ ID NO: 480
LENGTH: 31
TYPE: PRT
ORGANISM: Conus episcopatulus
US-09-894-882-480

Query Match 68.0%; Score 34; DB 2; Length 31;
Best Local Similarity 75.0%; Pred. No. 95;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 2 SCCRST 9
DB 18 SCCRSTCT 25

RESULT 39

US-09-894-882-359
; Sequence 359, Application US/09894882
; Patent No. 6767895
; GENERAL INFORMATION:
; APPLICANT: University of Utah Research Foundation
; APPLICANT: Cognetix, Inc.
; APPLICANT: Walker, Craig S.
; APPLICANT: Shetty, Reshma
; APPLICANT: Jimenez, Elsie C.
; APPLICANT: McIntosh, J. Michael
; APPLICANT: Oliveira, Baldomero M.
; APPLICANT: Watkins, Maren
; APPLICANT: Jones, Robert M.
; APPLICANT: Shen, Greg S.
; TITLE OF INVENTION: I-Superfamily Conotoxins
; FILE REFERENCE: 2314-238
; CURRENT APPLICATION NUMBER: US/09/894,882
; CURRENT FILING DATE: 2001-06-29
; PRIOR APPLICATION NUMBER: US 60/
; PRIOR FILING DATE: 2000-06-30
; PRIOR APPLICATION NUMBER: US 60/243,410
; PRIOR FILING DATE: 2000-10-27
; PRIOR APPLICATION NUMBER: US 60/246,581
; PRIOR FILING DATE: 2000-11-08
; PRIOR APPLICATION NUMBER: US 60/247,714
; PRIOR FILING DATE: 2000-11-14
; PRIOR APPLICATION NUMBER: US 60/264,256
; PRIOR FILING DATE: 2001-01-29
; NUMBER OF SEQ ID NOS: 506
; SOFTWARE: Patentin version 3.0
; SEQ ID NO 359
; LENGTH: 70
; TYPE: PRT
; ORGANISM: Conus episcopatus
US-09-894-882-359

Query Match 68.0%; Score 34; DB 2; Length 70;
Best Local Similarity 75.0%; Pred. No. 1.8e+02;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 2 SCCRST 9
DB 44 SCCRSTCT 51

RESULT 40

US-09-894-882-362
; Sequence 362, Application US/09894882
; Patent No. 6767895
; GENERAL INFORMATION:
; APPLICANT: University of Utah Research Foundation
; APPLICANT: Cognetix, Inc.
; APPLICANT: Walker, Craig S.
; APPLICANT: Shetty, Reshma
; APPLICANT: Jimenez, Elsie C.
; APPLICANT: McIntosh, J. Michael
; APPLICANT: Oliveira, Baldomero M.
; APPLICANT: Watkins, Maren
; APPLICANT: Jones, Robert M.
; APPLICANT: Shen, Greg S.
; TITLE OF INVENTION: I-Superfamily Conotoxins
; FILE REFERENCE: 2314-238

; CURRENT APPLICATION NUMBER: US/09/894,882
; CURRENT FILING DATE: 2001-06-29
; PRIOR APPLICATION NUMBER: US 60/
; PRIOR FILING DATE: 2000-06-30
; PRIOR APPLICATION NUMBER: US 60/243,410
; PRIOR FILING DATE: 2000-10-27
; PRIOR APPLICATION NUMBER: US 60/246,581
; PRIOR FILING DATE: 2000-11-08
; PRIOR APPLICATION NUMBER: US 60/247,714
; PRIOR FILING DATE: 2000-11-14
; PRIOR APPLICATION NUMBER: US 60/264,256
; PRIOR FILING DATE: 2001-01-29
; NUMBER OF SEQ ID NOS: 506
; SOFTWARE: Patentin version 3.0
; SEQ ID NO 362
; LENGTH: 70
; TYPE: PRT
; ORGANISM: Conus episcopatus
US-09-894-882-362

Query Match 68.0%; Score 34; DB 2; Length 70;
Best Local Similarity 75.0%; Pred. No. 1.8e+02;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 2 SCCRST 9
DB 44 SCCRSTCT 51

RESULT 41
US-09-270-767-35252
; Sequence 35252, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
; APPLICANT: Homburger et al.
; TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
; FILE REFERENCE: File Reference: 7326-094
; CURRENT APPLICATION NUMBER: US/09/270,767
; CURRENT FILING DATE: 1999-03-17
; NUMBER OF SEQ ID NOS: 62517
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 35252
; LENGTH: 101
; TYPE: PRT
; ORGANISM: Drosophila melanogaster
; FEATURE:
; OTHER INFORMATION: Xaa means any amino acid
US-09-270-767-35252

Query Match 68.0%; Score 34; DB 2; Length 101;
Best Local Similarity 71.4%; Pred. No. 2.5e+02;
Matches 5; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 1 MSCRSS 7
DB 1 MACRSA 7

RESULT 42
US-09-270-767-50469
; Sequence 50469, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
; APPLICANT: Homburger et al.
; TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
; FILE REFERENCE: File Reference: 7326-094
; CURRENT APPLICATION NUMBER: US/09/270,767
; CURRENT FILING DATE: 1999-03-17
; NUMBER OF SEQ ID NOS: 62517
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 50469
; LENGTH: 101
; TYPE: PRT

ORGANISM: Drosophila melanogaster
 FEATURE:
 OTHER INFORMATION: Xaa means any amino acid
 US-09-270-767-50469

Query Match 68.0%; Score 34; DB 2; Length 101;
 Best Local Similarity 71.4%; Pred. No. 2.5e+02;
 Matches 5; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

OY 1 MSCRSSR 7
 DB 1 MACCRSA 7

RESULT 43
 US-09-252-991A-22015
 Sequence 22015, Application US/09252991A
 Patent No. 6551795
 GENERAL INFORMATION:
 APPLICANT: Marc J. Rubenfield et al.
 TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
 TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
 FILE REFERENCE: 107196.136
 CURRENT APPLICATION NUMBER: US/09/252,991A
 CURRENT FILING DATE: 1999-02-18
 PRIOR APPLICATION NUMBER: US 60/074,788
 PRIOR FILING DATE: 1998-02-18
 PRIOR APPLICATION NUMBER: US 60/094,190
 PRIOR FILING DATE: 1998-07-27
 NUMBER OF SEQ ID NOS: 33142
 SEQ ID NO 22015
 LENGTH: 120
 TYPE: PRT
 ORGANISM: Pseudomonas aeruginosa
 US-09-252-991A-22015

Query Match 68.0%; Score 34; DB 2; Length 120;
 Best Local Similarity 71.4%; Pred. No. 2.9e+02;
 Matches 5; Conservative 0; Indels 0; Gaps 0;

OY 2 SCCRSSR 8
 DB 93 SCCRRATR 99

RESULT 44
 US-09-489-039A-12930
 Sequence 12930, Application US/09489039A
 Patent No. 6610836
 GENERAL INFORMATION:
 APPLICANT: Gary Breton et. al
 TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO KLEBSIELLA
 TITLE OF INVENTION: PNEUMONIAE FOR DIAGNOSTICS AND THERAPEUTICS
 FILE REFERENCE: 2709.2004001
 CURRENT APPLICATION NUMBER: US/09/489,039A
 CURRENT FILING DATE: 2000-01-27
 PRIOR APPLICATION NUMBER: US 60/117,747
 PRIOR FILING DATE: 1999-01-29
 NUMBER OF SEQ ID NOS: 14342
 SEQ ID NO 12930
 LENGTH: 138
 TYPE: PRT
 ORGANISM: Klebsiella pneumoniae
 US-09-489-039A-12930

Query Match 68.0%; Score 34; DB 2; Length 138;
 Best Local Similarity 71.4%; Pred. No. 3.2e+02;
 Matches 5; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

OY 2 SCCRSSR 8
 DB 33 TCCRSR 39

RESULT 45
 US-09-252-991A-20461
 Sequence 20461, Application US/09252991A
 Patent No. 6551795
 GENERAL INFORMATION:
 APPLICANT: Marc J. Rubenfield et al.
 TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
 TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
 FILE REFERENCE: 107196.136
 CURRENT APPLICATION NUMBER: US/09/252,991A
 CURRENT FILING DATE: 1999-02-18
 PRIOR APPLICATION NUMBER: US 60/074,788
 PRIOR FILING DATE: 1998-02-18
 PRIOR APPLICATION NUMBER: US 60/094,190
 PRIOR FILING DATE: 1998-07-27
 NUMBER OF SEQ ID NOS: 33142
 SEQ ID NO 20461
 LENGTH: 146
 TYPE: PRT
 ORGANISM: Pseudomonas aeruginosa
 US-09-252-991A-20461

Query Match 68.0%; Score 34; DB 2; Length 146;
 Best Local Similarity 62.5%; Pred. No. 3.3e+02;
 Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

OY 1 MSCRSSR 8
 DB 61 MRCRRATR 68

RESULT 46
 US-09-252-991A-25612
 Sequence 25612, Application US/09252991A
 Patent No. 6551795
 GENERAL INFORMATION:
 APPLICANT: Marc J. Rubenfield et al.
 TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
 TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
 FILE REFERENCE: 107196.136
 CURRENT APPLICATION NUMBER: US/09/252,991A
 CURRENT FILING DATE: 1999-02-18
 PRIOR APPLICATION NUMBER: US 60/074,788
 PRIOR FILING DATE: 1998-02-18
 PRIOR APPLICATION NUMBER: US 60/094,190
 PRIOR FILING DATE: 1998-07-27
 NUMBER OF SEQ ID NOS: 33142
 SEQ ID NO 25612
 LENGTH: 154
 TYPE: PRT
 ORGANISM: Pseudomonas aeruginosa
 US-09-252-991A-25612

Query Match 68.0%; Score 34; DB 2; Length 154;
 Best Local Similarity 71.4%; Pred. No. 3.5e+02;
 Matches 5; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

OY 2 SCCRSSR 8
 DB 88 ACCRSR 94

RESULT 47
 US-08-311-731A-381
 Sequence 381, Application US/08311731A
 Patent No. 6583266
 GENERAL INFORMATION:
 APPLICANT: SMITH, DOUGLAS
 APPLICANT: MAO, JEN-I
 TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES
 TITLE OF INVENTION: RELATING TO MYCOBACTERIUM TUBERCULOSIS AND LAPRAE FOR
 TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS

NUMBER OF SEQUENCES: 411
CORRESPONDENCE ADDRESS:
ADDRESSEE: WOLF, GREENFIELD & SACKS, P.C.
STREET: 600 ATLANTIC AVENUE
CITY: BOSTON
STATE: MASSACHUSETTS
COUNTRY: USA
ZIP: 02210
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/311,731A
FILING DATE:
CLASSIFICATION: 530
ATTORNEY/AGENT INFORMATION:
NAME: GATES, EDWARD R.
REGISTRATION NUMBER: 31,616
REFERENCE/DOCKET NUMBER: C0044/7125
TELEPHONE: 617/720-3500
TELEFAX: 617/720-2441
INFORMATION FOR SEQ ID NO: 381:
SEQUENCE CHARACTERISTICS:
LENGTH: 171 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
HYPOTHETICAL: YES
ORIGINAL SOURCE:
ORGANISM: Mycobacterium leprae
US-08-311-731A-381

Query Match 68.0%; Score 34; DB 2; Length 171;
Best Local Similarity 85.7%; Pred. No. 3.8e+02;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 3 CCRSSRT 9
Db 4 CCRSSRT 10

RESULT 48
US-09-252-991A-18885
Sequence 18885, Application US/09252991A
Patent No. 6551795
GENERAL INFORMATION:
APPLICANT: Marc J. Rubenfield et al.
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
FILE REFERENCE: 107196.136
CURRENT APPLICATION NUMBER: US/09/252,991A
CURRENT FILING DATE: 1999-02-18
PRIOR APPLICATION NUMBER: US 60/074,788
PRIOR FILING DATE: 1998-02-18
PRIOR APPLICATION NUMBER: US 60/094,190
PRIOR FILING DATE: 1998-07-27
NUMBER OF SEQ ID NOS: 33142
SEQ ID NO 18885
LENGTH: 179
TYPE: PRT
ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-18885

Query Match 68.0%; Score 34; DB 2; Length 179;
Best Local Similarity 85.7%; Pred. No. 4e+02;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2 SCCRSSR 8
Db 54 SCCASSR 60

RESULT 49
US-09-252-991A-19432
Sequence 19432, Application US/09252991A
Patent No. 6551795
GENERAL INFORMATION:
APPLICANT: Marc J. Rubenfield et al.
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
FILE REFERENCE: 107196.136
CURRENT APPLICATION NUMBER: US/09/252,991A
CURRENT FILING DATE: 1999-02-18
PRIOR APPLICATION NUMBER: US 60/074,788
PRIOR FILING DATE: 1998-02-18
PRIOR APPLICATION NUMBER: US 60/094,190
PRIOR FILING DATE: 1998-07-27
NUMBER OF SEQ ID NOS: 33142
SEQ ID NO 19432
LENGTH: 227
TYPE: PRT
ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-19432

Query Match 68.0%; Score 34; DB 2; Length 227;
Best Local Similarity 71.4%; Pred. No. 4.8e+02;
Matches 5; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 3 CCRSSRT 9
Db 3 CCRSARS 9

RESULT 50
US-09-252-991A-18455
Sequence 18455, Application US/09252991A
Patent No. 6551795
GENERAL INFORMATION:
APPLICANT: Marc J. Rubenfield et al.
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
FILE REFERENCE: 107196.136
CURRENT APPLICATION NUMBER: US/09/252,991A
CURRENT FILING DATE: 1999-02-18
PRIOR APPLICATION NUMBER: US 60/074,788
PRIOR FILING DATE: 1998-02-18
PRIOR APPLICATION NUMBER: US 60/094,190
PRIOR FILING DATE: 1998-07-27
NUMBER OF SEQ ID NOS: 33142
SEQ ID NO 18455
LENGTH: 233
TYPE: PRT
ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-18455

Query Match 68.0%; Score 34; DB 2; Length 233;
Best Local Similarity 71.4%; Pred. No. 4.9e+02;
Matches 5; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 2 SCCRSSR 8
Db 59 ACCRSAR 65

Search completed: May 5, 2006, 04:00:38
Job time : 25 secs

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OM protein - protein search, using sw model

Run on: May 5, 2006, 08:07:45 ; Search time 55.8 Seconds
(without alignments)
67.392 Million cell updates/sec

Title: US-08-170-344-37
Perfect score: 50
Sequence: 1 MSCRRSRT 9

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1867569 seqs, 417829326 residues

Total number of hits satisfying chosen parameters: 1867569

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 1000 summaries

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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5	50	100.0	151	5	US-10-484-063-20
6	50	100.0	151	5	US-10-484-063-27
7	50	100.0	158	5	US-10-858-384-2
8	50	100.0	158	5	US-10-367-057-16
9	50	100.0	158	6	US-11-021-949-13
10	50	100.0	171	4	US-10-472-724-2
11	50	100.0	243	6	US-11-072-288-1
12	50	100.0	266	3	US-09-367-309A-1
13	50	100.0	273	4	US-10-000-903-4
14	50	100.0	273	5	US-10-899-771-4
15	50	100.0	292	4	US-10-000-903-10
16	50	100.0	292	5	US-10-899-771-10
17	50	100.0	371	4	US-10-000-903-6
18	50	100.0	371	5	US-10-899-771-6
19	50	100.0	390	4	US-10-000-903-14
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25	40	80.0	43	4	US-10-653-595-213
26	40	80.0	137	3	US-09-397-945-211
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31	37	74.0	69	4	US-10-425-115-244446	Sequence 244446,
32	37	74.0	132	4	US-10-767-701-47475	Sequence 47475, A
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44	36	72.0	148	4	US-10-408-765A-22714	Sequence 2274, Ap
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53	36	72.0	698	4	US-10-437-963-122301	Sequence 122301,
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62	35	70.0	177	4	US-10-425-115-202252	Sequence 45016, A
63	35	70.0	188	4	US-10-296-115-847	Sequence 146514,
64	35	70.0	189	5	US-10-450-763-45016	Sequence 1679, Ap
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66	35	70.0	247	4	US-10-359-493-1679	Sequence 4332, A
67	35	70.0	255	4	US-10-437-963-154035	Sequence 12, Appl
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78	34	68.0	31	3	US-09-894-882-480	Sequence 360, App
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104	34	68.0	478	4	US-10-437-963-115033	Sequence 115033,	177	33	66.0	1059	4	US-10-437-963-120701	Sequence 120701,
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106	34	68.0	749	4	US-10-087-192-30	Sequence 30, Appl	179	33	66.0	1368	5	US-10-263-929-149	Sequence 149, App
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111	34	66.0	38	2	US-08-424-5508-569	Sequence 569, App	184	33	66.0	1740	4	US-10-361-522-4	Sequence 4, Appl1
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121	33	66.0	85	3	US-09-881-752A-88	Sequence 88, Appl1	194	32	64.0	45	4	US-10-283-940-67	Sequence 67, Appl1
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137	33	66.0	141	4	US-10-141-645-72	Sequence 72, Appl1	210	32	64.0	71	4	US-10-437-963-168235	Sequence 168235,
138	33	66.0	141	4	US-10-141-645-73	Sequence 73, Appl1	211	32	64.0	71	4	US-10-425-115-323615	Sequence 323615,
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143	33	66.0	167	5	US-10-450-763-46289	Sequence 46289, A	216	32	64.0	82	4	US-10-424-599-244939	Sequence 244939,
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146	33	66.0	184	3	US-09-833-245-3250	Sequence 2250, Ap	219	32	64.0	85	4	US-10-425-115-321486	Sequence 321486,
147	33	66.0	184	5	US-10-874-484-30	Sequence 30, Appl	220	32	64.0	85	5	US-10-425-115-272184	Sequence 272184,
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149	33	66.0	217	4	US-10-369-493-9135	Sequence 9135, Ap	222	32	64.0	86	4	US-10-425-115-327852	Sequence 327852,
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154	33	66.0	270	3	US-09-764-855-145	Sequence 145, App	227	32	64.0	95	4	US-10-776-224-191	Sequence 191, App
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156	33	66.0	270	4	US-10-091-458-47	Sequence 47, Appl	229	32	64.0	95	5	US-10-776-224-192	Sequence 192, App
157	33	66.0	270	4	US-10-191-254-47	Sequence 47, Appl	230	32	64.0	100	4	US-10-424-599-232279	Sequence 232279,
158	33	66.0	293	4	US-10-437-963-122200	Sequence 122200,	231	32	64.0	101	3	US-09-764-869-694	Sequence 694, App
159	33	66.0	300	4	US-10-264-049-2416	Sequence 2416, Ap	232	32	64.0	101	4	US-10-091-504-694	Sequence 694, App
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162	33	66.0	312	4	US-10-023-224-4	Sequence 4, Appl1	235	32	64.0	102	4	US-10-425-115-316284	Sequence 316284,
163	33	66.0	316	4	US-10-425-115-249464	Sequence 249464,	236	32	64.0	103	5	US-10-450-763-48780	Sequence 48780, A
164	33	66.0	317	4	US-10-425-114-46083	Sequence 46083, A	237	32	64.0	106	4	US-10-424-599-256779	Sequence 256779,
165	33	66.0	332	4	US-10-424-599-252215	Sequence 252215,	238	32	64.0	108	4	US-10-437-963-177523	Sequence 177523,
166	33	66.0	338	4	US-10-437-963-203361	Sequence 203361,	239	32	64.0	109	5	US-10-450-763-31332	Sequence 31332, A
167	33	66.0	359	4	US-10-437-963-136865	Sequence 136865,	240	32	64.0	112	4	US-10-437-963-184448	Sequence 184448,
168	33	66.0	375	4	US-10-259-194A-52	Sequence 52, Appl1	241	32	64.0	112	4	US-10-425-115-316640	Sequence 316640,
169	33	66.0	390	4	US-10-424-599-169670	Sequence 169670,	242	32	64.0	118	4	US-10-437-963-183283	Sequence 183283,
170	33	66.0	480	4	US-10-424-599-160063	Sequence 160063,	243	32	64.0	118	4	US-10-425-115-214017	Sequence 214017,
171	33	66.0	534	4	US-10-389-566-822	Sequence 822, App	244	32	64.0	124	3	US-09-864-169-2	Sequence 2, Appl1
172	33	66.0	534	4	US-10-389-566-1163	Sequence 1163, Ap	245	32	64.0	125	4	US-10-425-115-288457	Sequence 288457,
173	33	66.0	610	4	US-10-437-963-184724	Sequence 184724,	246	32	64.0	131	4	US-10-437-963-161411	Sequence 161411,

247	32	64.0	133	4	US-10-425-115-34097	Sequence 340097,	320	32	64.0	346	3	US-09-989-728-197	Sequence 197, App
248	32	64.0	138	4	US-10-437-963-110847	Sequence 110847,	321	32	64.0	346	3	US-09-990-441-197	Sequence 197, App
249	32	64.0	151	4	US-10-425-115-352610	Sequence 352610,	322	32	64.0	346	3	US-09-993-667-197	Sequence 197, App
250	32	64.0	153	4	US-10-437-963-179982	Sequence 179982,	323	32	64.0	346	3	US-09-997-428-197	Sequence 197, App
251	32	64.0	155	4	US-10-424-599-255501	Sequence 255501,	324	32	64.0	346	3	US-09-997-666-197	Sequence 197, App
252	32	64.0	158	4	US-10-437-963-201063	Sequence 201063,	325	32	64.0	346	3	US-09-990-438-197	Sequence 197, App
253	32	64.0	160	4	US-10-425-115-240798	Sequence 240798,	326	32	64.0	346	3	US-09-990-562-197	Sequence 197, App
254	32	64.0	162	4	US-10-767-701-32797	Sequence 32797, A	327	32	64.0	346	3	US-09-990-711-197	Sequence 197, App
255	32	64.0	163	4	US-10-300-341-13	Sequence 13, App1	328	32	64.0	346	3	US-09-988-156-197	Sequence 197, App
256	32	64.0	165	4	US-10-437-963-199754	Sequence 199754,	329	32	64.0	346	3	US-09-990-437-197	Sequence 197, App
257	32	64.0	169	4	US-10-767-701-36080	Sequence 36080, A	330	32	64.0	346	3	US-09-991-157-197	Sequence 197, App
258	32	64.0	175	4	US-10-437-963-123240	Sequence 123240,	331	32	64.0	346	3	US-09-997-514-197	Sequence 197, App
259	32	64.0	176	4	US-10-408-765A-753	Sequence 753, App	332	32	64.0	346	3	US-09-997-173-197	Sequence 197, App
260	32	64.0	177	4	US-10-424-599-254701	Sequence 254701,	333	32	64.0	346	3	US-09-991-172-197	Sequence 197, App
261	32	64.0	179	4	US-10-425-114-42217	Sequence 42217, A	334	32	64.0	346	3	US-09-990-126-197	Sequence 197, App
262	32	64.0	189	4	US-10-104-047-3254	Sequence 3254, App	335	32	64.0	346	3	US-09-997-559-197	Sequence 197, App
263	32	64.0	189	5	US-10-450-763-42839	Sequence 42839, A	336	32	64.0	346	3	US-09-997-601-197	Sequence 197, App
264	32	64.0	194	4	US-10-425-114-46050	Sequence 46050, A	337	32	64.0	346	3	US-09-990-443-197	Sequence 197, App
265	32	64.0	198	4	US-10-437-963-178802	Sequence 178802,	338	32	64.0	346	3	US-09-997-828-197	Sequence 197, App
266	32	64.0	200	6	US-11-097-143-33816	Sequence 33816, A	339	32	64.0	346	3	US-09-987-628-197	Sequence 197, App
267	32	64.0	206	3	US-09-811-284-218	Sequence 218, App	340	32	64.0	346	3	US-09-987-683-197	Sequence 197, App
268	32	64.0	208	4	US-10-437-963-178857	Sequence 178857,	341	32	64.0	346	3	US-09-989-729A-197	Sequence 197, App
269	32	64.0	210	4	US-10-424-599-265979	Sequence 265979,	342	32	64.0	346	3	US-09-997-440-197	Sequence 197, App
270	32	64.0	217	4	US-10-425-114-61741	Sequence 61741, A	343	32	64.0	346	3	US-09-997-440-197	Sequence 197, App
271	32	64.0	218	4	US-10-425-114-60485	Sequence 60485, A	344	32	64.0	346	3	US-09-997-440-197	Sequence 197, App
272	32	64.0	218	4	US-10-425-114-60567	Sequence 60567, A	345	32	64.0	346	3	US-09-997-440-197	Sequence 197, App
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275	32	64.0	226	4	US-10-425-114-53298	Sequence 53298, A	348	32	64.0	346	3	US-09-997-440-197	Sequence 197, App
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277	32	64.0	237	4	US-10-425-115-283087	Sequence 283087,	350	32	64.0	346	3	US-09-997-440-197	Sequence 197, App
278	32	64.0	246	4	US-10-425-115-204430	Sequence 204430, A	351	32	64.0	346	3	US-09-997-440-197	Sequence 197, App
279	32	64.0	250	4	US-10-029-386-32323	Sequence 32323, A	352	32	64.0	346	3	US-09-997-440-197	Sequence 197, App
280	32	64.0	275	4	US-10-425-115-324133	Sequence 324133,	353	32	64.0	346	3	US-09-997-440-197	Sequence 197, App
281	32	64.0	276	4	US-10-424-599-157579	Sequence 157579,	354	32	64.0	346	3	US-09-997-440-197	Sequence 197, App
282	32	64.0	276	4	US-10-437-963-177524	Sequence 177524,	355	32	64.0	346	3	US-09-997-440-197	Sequence 197, App
283	32	64.0	276	6	US-11-097-143-23685	Sequence 23685, A	356	32	64.0	346	3	US-09-997-440-197	Sequence 197, App
284	32	64.0	276	6	US-11-097-143-28983	Sequence 28983, A	357	32	64.0	346	3	US-09-997-440-197	Sequence 197, App
285	32	64.0	288	4	US-10-767-701-34988	Sequence 34988, A	358	32	64.0	346	3	US-09-997-440-197	Sequence 197, App
286	32	64.0	296	4	US-10-425-115-273188	Sequence 273188,	359	32	64.0	346	3	US-09-997-440-197	Sequence 197, App
287	32	64.0	297	3	US-09-919-497-65	Sequence 65, App1	360	32	64.0	346	3	US-09-997-440-197	Sequence 197, App
288	32	64.0	304	4	US-10-424-599-233552	Sequence 233552,	361	32	64.0	346	3	US-09-997-440-197	Sequence 197, App
289	32	64.0	307	5	US-10-450-763-55853	Sequence 55853, A	362	32	64.0	346	3	US-09-997-440-197	Sequence 197, App
290	32	64.0	308	4	US-10-437-963-180825	Sequence 180825,	363	32	64.0	346	3	US-09-997-440-197	Sequence 197, App
291	32	64.0	311	4	US-10-425-114-48493	Sequence 48493, A	364	32	64.0	346	3	US-09-997-440-197	Sequence 197, App
292	32	64.0	315	4	US-10-425-114-37129	Sequence 37129, A	365	32	64.0	346	3	US-09-997-440-197	Sequence 197, App
293	32	64.0	317	4	US-10-437-963-201789	Sequence 201789,	366	32	64.0	346	3	US-09-997-440-197	Sequence 197, App
294	32	64.0	326	6	US-11-097-143-10455	Sequence 10455, A	367	32	64.0	346	3	US-09-997-440-197	Sequence 197, App
295	32	64.0	327	4	US-10-425-114-45929	Sequence 45929, A	368	32	64.0	346	3	US-09-997-440-197	Sequence 197, App
296	32	64.0	341	4	US-10-437-963-192283	Sequence 192283,	369	32	64.0	346	3	US-09-997-440-197	Sequence 197, App
297	32	64.0	346	3	US-09-989-723-197	Sequence 197, App	370	32	64.0	346	3	US-09-997-440-197	Sequence 197, App
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299	32	64.0	346	3	US-09-989-723-197	Sequence 197, App	372	32	64.0	346	3	US-09-997-440-197	Sequence 197, App
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301	32	64.0	346	3	US-09-989-723-197	Sequence 197, App	374	32	64.0	346	3	US-09-997-440-197	Sequence 197, App
302	32	64.0	346	3	US-09-989-723-197	Sequence 197, App	375	32	64.0	346	3	US-09-997-440-197	Sequence 197, App
303	32	64.0	346	3	US-09-989-723-197	Sequence 197, App	376	32	64.0	346	3	US-09-997-440-197	Sequence 197, App
304	32	64.0	346	3	US-09-989-723-197	Sequence 197, App	377	32	64.0	346	3	US-09-997-440-197	Sequence 197, App
305	32	64.0	346	3	US-09-989-723-197	Sequence 197, App	378	32	64.0	346	3	US-09-997-440-197	Sequence 197, App
306	32	64.0	346	3	US-09-989-723-197	Sequence 197, App	379	32	64.0	346	3	US-09-997-440-197	Sequence 197, App
307	32	64.0	346	3	US-09-989-723-197	Sequence 197, App	380	32	64.0	346	3	US-09-997-440-197	Sequence 197, App
308	32	64.0	346	3	US-09-989-723-197	Sequence 197, App	381	32	64.0	346	3	US-09-997-440-197	Sequence 197, App
309	32	64.0	346	3	US-09-989-723-197	Sequence 197, App	382	32	64.0	346	3	US-09-997-440-197	Sequence 197, App
310	32	64.0	346	3	US-09-989-723-197	Sequence 197, App	383	32	64.0	346	3	US-09-997-440-197	Sequence 197, App
311	32	64.0	346	3	US-09-989-723-197	Sequence 197, App	384	32	64.0	346	3	US-09-997-440-197	Sequence 197, App
312	32	64.0	346	3	US-09-989-723-197	Sequence 197, App	385	32	64.0	346	3	US-09-997-440-197	Sequence 197, App
313	32	64.0	346	3	US-09-989-723-197	Sequence 197, App	386	32	64.0	346	3	US-09-997-440-197	Sequence 197, App
314	32	64.0	346	3	US-09-989-723-197	Sequence 197, App	387	32	64.0	346	3	US-09-997-440-197	Sequence 197, App
315	32	64.0	346	3	US-09-989-723-197	Sequence 197, App	388	32	64.0	346	3	US-09-997-440-197	Sequence 197, App
316	32	64.0	346	3	US-09-989-723-197	Sequence 197, App	389	32	64.0	346	3	US-09-997-440-197	Sequence 197, App
317	32	64.0	346	3	US-09-989-723-197	Sequence 197, App	390	32	64.0	346	3	US-09-997-440-197	Sequence 197, App
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396	32	64.0	346	4	US-10-123-903-432	Sequence 432, App	449	32	64.0	346	4	US-10-137-868-432	Sequence 432, App
397	32	64.0	346	4	US-10-124-819-432	Sequence 432, App	450	32	64.0	346	4	US-10-147-492-432	Sequence 432, App
398	32	64.0	346	4	US-10-124-882-432	Sequence 432, App	471	32	64.0	346	4	US-10-158-782-432	Sequence 432, App
399	32	64.0	346	4	US-10-140-925-432	Sequence 432, App	472	32	64.0	346	4	US-10-123-905-432	Sequence 432, App
400	32	64.0	346	4	US-10-160-498-432	Sequence 432, App	473	32	64.0	346	4	US-10-123-907-432	Sequence 432, App
401	32	64.0	346	4	US-10-124-824-432	Sequence 432, App	474	32	64.0	346	4	US-10-128-815-432	Sequence 432, App
402	32	64.0	346	4	US-10-127-825A-432	Sequence 432, App	475	32	64.0	346	4	US-10-129-921A-432	Sequence 432, App
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404	32	64.0	346	4	US-10-127-825A-432	Sequence 432, App	477	32	64.0	346	4	US-10-127-821A-432	Sequence 432, App
405	32	64.0	346	4	US-10-127-839A-432	Sequence 432, App	478	32	64.0	346	4	US-10-127-822A-432	Sequence 432, App
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407	32	64.0	346	4	US-10-128-693A-432	Sequence 432, App	480	32	64.0	346	4	US-10-127-826A-432	Sequence 432, App
408	32	64.0	346	4	US-10-131-813A-432	Sequence 432, App	481	32	64.0	346	4	US-10-127-827A-432	Sequence 432, App
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411	32	64.0	346	4	US-10-131-824A-432	Sequence 432, App	484	32	64.0	346	4	US-10-127-832A-432	Sequence 432, App
412	32	64.0	346	4	US-10-131-830A-432	Sequence 432, App	485	32	64.0	346	4	US-10-127-833A-432	Sequence 432, App
413	32	64.0	346	4	US-10-131-837A-432	Sequence 432, App	486	32	64.0	346	4	US-10-127-834A-432	Sequence 432, App
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416	32	64.0	346	4	US-10-147-502-432	Sequence 432, App	489	32	64.0	346	4	US-10-127-845A-432	Sequence 432, App
417	32	64.0	346	4	US-10-147-515-432	Sequence 432, App	490	32	64.0	346	4	US-10-128-687A-432	Sequence 432, App
418	32	64.0	346	4	US-10-147-517-432	Sequence 432, App	491	32	64.0	346	4	US-10-128-688A-432	Sequence 432, App
419	32	64.0	346	4	US-10-147-526-432	Sequence 432, App	492	32	64.0	346	4	US-10-128-689A-432	Sequence 432, App
420	32	64.0	346	4	US-10-147-527-432	Sequence 432, App	493	32	64.0	346	4	US-10-128-694A-432	Sequence 432, App
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422	32	64.0	346	4	US-10-121-043-432	Sequence 432, App	495	32	64.0	346	4	US-10-1230-417-432	Sequence 432, App
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426	32	64.0	346	4	US-10-123-908-432	Sequence 432, App	499	32	64.0	346	4	US-10-131-822A-432	Sequence 432, App
427	32	64.0	346	4	US-10-123-909-432	Sequence 432, App	500	32	64.0	346	4	US-10-131-828A-432	Sequence 432, App
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429	32	64.0	346	4	US-10-124-813-432	Sequence 432, App	502	32	64.0	346	4	US-10-137-864A-432	Sequence 432, App
430	32	64.0	346	4	US-10-124-817-432	Sequence 432, App	503	32	64.0	346	4	US-10-137-869A-432	Sequence 432, App
431	32	64.0	346	4	US-10-125-912-432	Sequence 432, App	504	32	64.0	346	4	US-10-147-523-432	Sequence 432, App
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436	32	64.0	346	4	US-10-157-782-432	Sequence 432, App	509	32	64.0	346	4	US-10-223-085-130	Sequence 130, App
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438	32	64.0	346	4	US-10-125-926A-432	Sequence 432, App	511	32	64.0	346	4	US-10-109-359-432	Sequence 432, App
439	32	64.0	346	4	US-10-125-930A-432	Sequence 432, App	512	32	64.0	346	4	US-10-223-084-130	Sequence 130, App
440	32	64.0	346	4	US-10-127-831A-432	Sequence 432, App	513	32	64.0	346	4	US-10-223-088-130	Sequence 130, App
441	32	64.0	346	4	US-10-127-837A-432	Sequence 432, App	514	32	64.0	346	4	US-10-223-090-130	Sequence 130, App
442	32	64.0	346	4	US-10-127-838B-432	Sequence 432, App	515	32	64.0	346	4	US-10-223-087-130	Sequence 130, App
443	32	64.0	346	4	US-10-127-842A-432	Sequence 432, App	516	32	64.0	346	4	US-10-060-255-44	Sequence 432, App
444	32	64.0	346	4	US-10-127-843A-432	Sequence 432, App	517	32	64.0	346	4	US-10-127-847A-432	Sequence 432, App
445	32	64.0	346	4	US-10-127-845A-432	Sequence 432, App	518	32	64.0	346	4	US-10-223-083-130	Sequence 130, App
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449	32	64.0	346	4	US-10-127-850A-432	Sequence 432, App	522	32	64.0	346	4	US-10-146-727-432	Sequence 432, App
450	32	64.0	346	4	US-10-127-851A-432	Sequence 432, App	523	32	64.0	346	4	US-10-146-788-432	Sequence 432, App
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452	32	64.0	346	4	US-10-128-686A-432	Sequence 432, App	525	32	64.0	346	4	US-10-153-934-432	Sequence 432, App
453	32	64.0	346	4	US-10-128-690A-432	Sequence 432, App	526	32	64.0	346	4	US-10-140-807-432	Sequence 432, App
454	32	64.0	346	4	US-10-128-691A-432	Sequence 432, App	527	32	64.0	346	4	US-10-140-926-432	Sequence 432, App
455	32	64.0	346	4	US-10-131-819A-432	Sequence 432, App	528	32	64.0	346	4	US-10-140-926-432	Sequence 432, App
456	32	64.0	346	4	US-10-131-829A-432	Sequence 432, App	529	32	64.0	346	4	US-10-141-698-432	Sequence 432, App
457	32	64.0	346	4	US-10-131-836A-432	Sequence 432, App	530	32	64.0	346	4	US-10-141-702-432	Sequence 432, App
458	32	64.0	346	4	US-10-146-729-432	Sequence 432, App	531	32	64.0	346	4	US-10-141-704-432	Sequence 432, App
459	32	64.0	346	4	US-10-146-791-432	Sequence 432, App	532	32	64.0	346	4	US-10-144-421-432	Sequence 432, App
460	32	64.0	346	4	US-10-147-484-432	Sequence 432, App	533	32	64.0	346	4	US-10-144-423-432	Sequence 432, App
461	32	64.0	346	4	US-10-147-508-432	Sequence 432, App	534	32	64.0	346	4	US-10-144-767-432	Sequence 432, App
462	32	64.0	346	4	US-10-147-512-432	Sequence 432, App	535	32	64.0	346	4	US-10-143-033-432	Sequence 432, App
463	32	64.0	346	4	US-10-175-735-432	Sequence 432, App	536	32	64.0	346	4	US-10-144-698-432	Sequence 432, App
464	32	64.0	346	4	US-10-121-040-432	Sequence 432, App	537	32	64.0	346	4	US-10-145-628-432	Sequence 432, App
465	32	64.0	346	4	US-10-121-056-432	Sequence 432, App	538	32	64.0	346	4	US-10-145-746-432	Sequence 432, App

685	32	64.0	346	4	US-10-123-154-432	Sequence 432, App	758	32	64.0	346	4	US-10-142-429-432	Sequence 432, App
686	32	64.0	346	4	US-10-123-157-432	Sequence 432, App	759	32	64.0	346	4	US-10-142-884-432	Sequence 432, App
687	32	64.0	346	4	US-10-123-906-432	Sequence 432, App	760	32	64.0	346	4	US-10-143-027-432	Sequence 432, App
688	32	64.0	346	4	US-10-124-814-432	Sequence 432, App	761	32	64.0	346	4	US-10-143-115-432	Sequence 432, App
689	32	64.0	346	4	US-10-124-816-432	Sequence 432, App	762	32	64.0	346	4	US-10-144-956-432	Sequence 432, App
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691	32	64.0	346	4	US-10-125-704-432	Sequence 432, App	764	32	64.0	346	4	US-10-145-632-432	Sequence 432, App
692	32	64.0	346	4	US-10-125-927-432	Sequence 432, App	765	32	64.0	346	4	US-10-145-749-432	Sequence 432, App
693	32	64.0	346	4	US-10-123-082-130	Sequence 130, App	766	32	64.0	346	4	US-10-145-753-432	Sequence 432, App
694	32	64.0	346	4	US-10-142-889-432	Sequence 432, App	767	32	64.0	346	4	US-10-145-871-432	Sequence 432, App
695	32	64.0	346	4	US-10-145-874-432	Sequence 432, App	768	32	64.0	346	4	US-10-145-878-432	Sequence 432, App
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706	32	64.0	346	4	US-10-157-794-432	Sequence 432, App	779	32	64.0	346	4	US-10-157-800-432	Sequence 432, App
707	32	64.0	346	4	US-10-157-796-432	Sequence 432, App	780	32	64.0	346	4	US-10-157-801-432	Sequence 432, App
708	32	64.0	346	4	US-10-160-500-432	Sequence 432, App	781	32	64.0	346	4	US-10-157-802-432	Sequence 432, App
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710	32	64.0	346	4	US-10-123-156-432	Sequence 432, App	783	32	64.0	346	4	US-10-158-789-432	Sequence 432, App
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714	32	64.0	346	4	US-10-152-385-432	Sequence 432, App	787	32	64.0	346	4	US-10-140-023-432	Sequence 432, App
715	32	64.0	346	4	US-10-152-393-432	Sequence 432, App	788	32	64.0	346	4	US-10-140-809-432	Sequence 432, App
716	32	64.0	346	4	US-10-152-396-432	Sequence 432, App	789	32	64.0	346	4	US-10-140-865-432	Sequence 432, App
717	32	64.0	346	4	US-10-153-552-432	Sequence 432, App	790	32	64.0	346	4	US-10-141-701-432	Sequence 432, App
718	32	64.0	346	4	US-10-153-840-432	Sequence 432, App	791	32	64.0	346	4	US-10-141-754-432	Sequence 432, App
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723	32	64.0	346	4	US-10-156-846-432	Sequence 432, App	796	32	64.0	346	4	US-10-146-730-432	Sequence 432, App
724	32	64.0	346	4	US-10-121-048-432	Sequence 432, App	797	32	64.0	346	4	US-10-146-792-432	Sequence 432, App
725	32	64.0	346	4	US-10-121-052-432	Sequence 432, App	798	32	64.0	346	4	US-10-158-791-432	Sequence 432, App
726	32	64.0	346	4	US-10-121-053-432	Sequence 432, App	799	32	64.0	346	4	US-10-158-841-432	Sequence 432, App
727	32	64.0	346	4	US-10-121-054-432	Sequence 432, App	800	32	64.0	346	4	US-10-157-786-432	Sequence 432, App
728	32	64.0	346	4	US-10-121-063-432	Sequence 432, App	801	32	64.0	346	4	US-10-152-405-432	Sequence 432, App
729	32	64.0	346	4	US-10-123-212-432	Sequence 432, App	802	32	64.0	346	4	US-10-219-538-197	Sequence 197, App
730	32	64.0	346	4	US-10-123-213-432	Sequence 432, App	803	32	64.0	346	4	US-10-147-528-432	Sequence 432, App
731	32	64.0	346	4	US-10-123-291-432	Sequence 432, App	804	32	64.0	346	4	US-10-305-654-130	Sequence 130, App
732	32	64.0	346	4	US-10-123-322-432	Sequence 432, App	805	32	64.0	346	4	US-10-295-027-368	Sequence 368, App
733	32	64.0	346	4	US-10-123-771-432	Sequence 432, App	806	32	64.0	346	4	US-10-128-692A-432	Sequence 432, App
734	32	64.0	346	4	US-10-123-911-432	Sequence 432, App	807	32	64.0	346	4	US-10-140-927-432	Sequence 432, App
735	32	64.0	346	4	US-10-124-823-432	Sequence 432, App	808	32	64.0	346	4	US-10-147-493-432	Sequence 432, App
736	32	64.0	346	4	US-10-125-931-432	Sequence 432, App	809	32	64.0	346	4	US-10-145-127-432	Sequence 432, App
737	32	64.0	346	4	US-10-125-932-432	Sequence 432, App	810	32	64.0	346	4	US-10-160-503-432	Sequence 432, App
738	32	64.0	346	4	US-10-127-852A-432	Sequence 432, App	811	32	64.0	346	4	US-10-143-118-432	Sequence 432, App
739	32	64.0	346	4	US-10-127-900A-432	Sequence 432, App	812	32	64.0	346	4	US-10-144-993-432	Sequence 432, App
740	32	64.0	346	4	US-10-128-685A-432	Sequence 432, App	813	32	64.0	346	4	US-10-158-787-432	Sequence 432, App
741	32	64.0	346	4	US-10-131-820A-432	Sequence 432, App	814	32	64.0	346	4	US-10-081-056-130	Sequence 130, App
742	32	64.0	346	4	US-10-142-886-432	Sequence 432, App	815	32	64.0	346	4	US-10-142-426-432	Sequence 432, App
743	32	64.0	346	4	US-10-146-728-432	Sequence 432, App	816	32	64.0	346	4	US-10-616-942-5	Sequence 5, App1
744	32	64.0	346	4	US-10-146-786-432	Sequence 432, App	817	32	64.0	346	4	US-10-140-024-432	Sequence 22, App1
745	32	64.0	346	4	US-10-147-499-432	Sequence 432, App	818	32	64.0	346	4	US-10-125-795-432	Sequence 432, App
746	32	64.0	346	4	US-10-157-798-432	Sequence 432, App	819	32	64.0	346	4	US-10-145-819-432	Sequence 432, App
747	32	64.0	346	4	US-10-123-913-432	Sequence 432, App	820	32	64.0	346	4	US-10-147-536-432	Sequence 432, App
748	32	64.0	346	4	US-10-140-473-432	Sequence 432, App	821	32	64.0	346	4	US-10-152-372-432	Sequence 432, App
749	32	64.0	346	4	US-10-140-806-432	Sequence 432, App	822	32	64.0	346	4	US-10-125-795-432	Sequence 432, App
750	32	64.0	346	4	US-10-140-810-432	Sequence 432, App	823	32	64.0	346	4	US-10-145-626-432	Sequence 432, App
751	32	64.0	346	4	US-10-140-863-432	Sequence 432, App	824	32	64.0	346	4	US-10-145-819-432	Sequence 432, App
752	32	64.0	346	4	US-10-141-699-432	Sequence 432, App	825	32	64.0	346	4	US-10-145-825-432	Sequence 432, App
753	32	64.0	346	4	US-10-141-703-432	Sequence 432, App	826	32	64.0	346	4	US-10-147-513-432	Sequence 432, App
754	32	64.0	346	4	US-10-141-706-432	Sequence 432, App	827	32	64.0	346	4	US-10-147-518-432	Sequence 432, App
755	32	64.0	346	4	US-10-141-757-432	Sequence 432, App	828	32	64.0	346	5	US-10-145-961-432	Sequence 432, App
756	32	64.0	346	4	US-10-141-762-432	Sequence 432, App	829	32	64.0	346	5	US-10-881-088-44	Sequence 44, App1
757	32	64.0	346	4	US-10-142-428-432	Sequence 432, App	830	32	64.0	346	5	US-10-147-488-432	Sequence 432, App

831	32	64.0	346	5	US-10-147-531-432	Sequence 432, App	904	31	62.0	31	4	US-10-765-926-407	Sequence 407, App
832	32	64.0	346	5	US-10-931-886-432	Sequence 432, App	905	31	62.0	31	5	US-10-450-763-58406	Sequence 58406, A
833	32	64.0	346	5	US-10-775-180-195	Sequence 195, App	906	31	62.0	36	4	US-10-425-115-364455	Sequence 364455, A
834	32	64.0	346	5	US-10-775-180-196	Sequence 196, App	907	31	62.0	41	3	US-09-855-604-93	Sequence 93, Appl
835	32	64.0	346	5	US-10-158-788-432	Sequence 432, App	908	31	62.0	41	3	US-09-855-604-93	Sequence 93, Appl
836	32	64.0	346	5	US-10-955-952-432	Sequence 432, App	909	31	62.0	42	4	US-10-425-115-221597	Sequence 221597, App
837	32	64.0	346	5	US-10-775-204-621	Sequence 621, App	910	31	62.0	42	4	US-10-425-115-342163	Sequence 342163, App
838	32	64.0	346	5	US-10-775-204-622	Sequence 622, App	911	31	62.0	42	4	US-10-425-115-342163	Sequence 342163, App
839	32	64.0	346	5	US-10-950-374-197	Sequence 197, App	912	31	62.0	48	4	US-10-437-963-127074	Sequence 127074, App
840	32	64.0	346	5	US-10-631-467-845	Sequence 845, App	913	31	62.0	48	4	US-10-425-115-217436	Sequence 217436, App
841	32	64.0	352	5	US-10-425-114-1503	Sequence 7503, A	914	31	62.0	49	4	US-09-764-847-871	Sequence 871, App
842	32	64.0	366	5	US-10-450-763-45496	Sequence 45496, A	915	31	62.0	49	4	US-10-092-154-871	Sequence 871, App
843	32	64.0	375	3	US-09-875-076-16	Sequence 16, Appl	916	31	62.0	50	4	US-10-425-115-211650	Sequence 211650, App
844	32	64.0	375	3	US-09-876-252-18	Sequence 2, Appl	917	31	62.0	52	4	US-10-424-599-256950	Sequence 256950, App
845	32	64.0	375	4	US-10-318-142-2	Sequence 4, Appl	918	31	62.0	53	4	US-10-425-115-364847	Sequence 364847, App
846	32	64.0	375	4	US-10-225-567A-494	Sequence 16, Appl	919	31	62.0	54	3	US-09-796-692-1510	Sequence 1510, App
847	32	64.0	375	4	US-10-272-983-16	Sequence 16, Appl	920	31	62.0	54	4	US-10-040-862-1510	Sequence 1510, App
848	32	64.0	375	4	US-10-393-807-16	Sequence 16, Appl	921	31	62.0	54	4	US-10-057-7758-1510	Sequence 1510, App
849	32	64.0	375	4	US-10-417-820A-18	Sequence 18, Appl	922	31	62.0	54	4	US-10-154-8848-1510	Sequence 1510, App
850	32	64.0	375	4	US-10-295-027-1338	Sequence 18, Appl	923	31	62.0	54	4	US-10-424-599-230610	Sequence 230610, App
851	32	64.0	375	4	US-10-723-955-18	Sequence 18, Appl	924	31	62.0	54	4	US-10-764-324-1510	Sequence 1510, App
852	32	64.0	375	4	US-10-723-955-18	Sequence 18, Appl	925	31	62.0	56	4	US-10-010-940-564	Sequence 564, App
853	32	64.0	375	5	US-10-782-596-16	Sequence 16, Appl	926	31	62.0	56	4	US-10-029-386-27711	Sequence 27711, A
854	32	64.0	375	5	US-10-783-528-104	Sequence 104, App	927	31	62.0	57	4	US-10-437-963-145277	Sequence 145277, A
855	32	64.0	375	5	US-10-898-329-2	Sequence 2, Appl	928	31	62.0	58	3	US-09-759-143-547	Sequence 547, App
856	32	64.0	375	5	US-10-723-955-18	Sequence 18, Appl	929	31	62.0	58	3	US-09-780-669-547	Sequence 547, App
857	32	64.0	422	5	US-10-739-930-11071	Sequence 18, Appl	930	31	62.0	58	3	US-09-822-827-547	Sequence 547, App
858	32	64.0	434	4	US-10-716-803-17	Sequence 17, Appl	931	31	62.0	58	3	US-09-885-793-547	Sequence 547, App
859	32	64.0	434	4	US-10-437-963-108841	Sequence 108841, A	932	31	62.0	58	3	US-09-895-814-547	Sequence 814, App
860	32	64.0	436	4	US-10-437-963-173737	Sequence 173737, A	933	31	62.0	58	3	US-09-833-245-463	Sequence 463, App
861	32	64.0	495	4	US-10-424-599-157578	Sequence 157578, A	934	31	62.0	58	3	US-09-833-245-463	Sequence 463, App
862	32	64.0	540	4	US-10-425-115-442206	Sequence 342206, A	935	31	62.0	58	3	US-09-833-245-464	Sequence 464, App
863	32	64.0	543	3	US-09-864-169-5	Sequence 5, Appl	936	31	62.0	58	4	US-10-012-896-547	Sequence 547, App
864	32	64.0	544	4	US-10-450-763-36170	Sequence 36170, A	937	31	62.0	58	4	US-10-010-940-547	Sequence 547, App
865	32	64.0	579	5	US-10-369-493-3250	Sequence 3250, App	938	31	62.0	58	4	US-10-144-678A-547	Sequence 547, App
866	32	64.0	613	4	US-10-505-486-102	Sequence 102, App	939	31	62.0	58	4	US-10-294-025-547	Sequence 547, App
867	32	64.0	630	4	US-10-425-115-225396	Sequence 225396, App	940	31	62.0	58	4	US-10-424-599-283537	Sequence 283537, App
868	32	64.0	634	4	US-10-156-761-10134	Sequence 10134, A	941	31	62.0	58	4	US-10-437-963-199439	Sequence 199439, App
869	32	64.0	742	4	US-10-437-963-111562	Sequence 111562, A	942	31	62.0	59	4	US-10-425-115-101455	Sequence 101455, App
870	32	64.0	747	4	US-10-425-114-38701	Sequence 38701, A	943	31	62.0	59	4	US-10-425-115-194939	Sequence 194939, App
871	32	64.0	763	5	US-10-450-763-31227	Sequence 31227, A	944	31	62.0	65	4	US-10-425-115-101309	Sequence 101309, App
872	32	64.0	817	4	US-10-425-114-38290	Sequence 38290, A	945	31	62.0	66	5	US-10-450-763-19853	Sequence 19853, A
873	32	64.0	883	4	US-10-437-963-18678	Sequence 18678, A	946	31	62.0	67	4	US-10-424-599-147002	Sequence 147002, App
874	32	64.0	888	4	US-10-437-963-118322	Sequence 118322, A	947	31	62.0	67	4	US-10-437-963-174764	Sequence 174764, App
875	32	64.0	908	5	US-10-775-180-126	Sequence 126, App	948	31	62.0	68	4	US-10-437-963-115412	Sequence 115412, App
876	32	64.0	908	5	US-10-775-180-127	Sequence 127, App	949	31	62.0	69	4	US-10-425-115-209047	Sequence 209047, App
877	32	64.0	908	5	US-10-775-204-405	Sequence 405, App	950	31	62.0	70	4	US-10-424-599-251655	Sequence 251655, App
878	32	64.0	908	5	US-10-775-204-406	Sequence 406, App	951	31	62.0	70	4	US-10-437-963-189497	Sequence 189497, App
879	32	64.0	951	4	US-10-424-599-210074	Sequence 210074, A	952	31	62.0	71	4	US-10-425-115-168348	Sequence 168348, App
880	32	64.0	951	4	US-10-120-801-47	Sequence 47, Appl	953	31	62.0	71	4	US-10-425-115-272441	Sequence 272441, App
881	32	64.0	963	4	US-10-174-677-58	Sequence 58, Appl	954	31	62.0	71	4	US-10-425-115-288914	Sequence 288914, App
882	32	64.0	963	4	US-10-161-449-110	Sequence 120, App	955	31	62.0	71	4	US-10-425-115-335067	Sequence 335067, App
883	32	64.0	973	6	US-11-097-143-2889	Sequence 2889, App	956	31	62.0	73	4	US-10-425-115-295668	Sequence 295668, App
884	32	64.0	1033	5	US-10-450-763-39314	Sequence 39314, A	957	31	62.0	73	4	US-10-424-599-147376	Sequence 147376, App
885	32	64.0	1124	5	US-10-732-923-12475	Sequence 12475, A	958	31	62.0	74	4	US-10-424-599-147376	Sequence 147376, App
886	32	64.0	1181	6	US-11-097-143-15843	Sequence 12494, A	959	31	62.0	74	4	US-10-424-599-147376	Sequence 147376, App
887	32	64.0	1181	6	US-11-097-143-15843	Sequence 12494, A	960	31	62.0	75	4	US-10-425-115-338949	Sequence 338949, App
888	32	64.0	1487	5	US-10-626-832-77	Sequence 77, Appl	961	31	62.0	76	3	US-09-910-082A-289	Sequence 289, App
889	32	64.0	1487	5	US-10-626-832-100	Sequence 100, App	962	31	62.0	76	4	US-10-437-963-105198	Sequence 105198, App
890	32	64.0	1987	4	US-10-132-382-6	Sequence 6, Appl	963	31	62.0	76	4	US-10-765-926-889	Sequence 889, App
891	32	64.0	2013	4	US-10-132-382-2	Sequence 2, Appl	964	31	62.0	77	3	US-09-989-890-249	Sequence 249, App
892	32	64.0	2014	4	US-10-132-382-8	Sequence 8, Appl	965	31	62.0	77	4	US-10-074-475-287	Sequence 287, App
893	32	64.0	2014	4	US-10-220-955-18	Sequence 18, Appl	966	31	62.0	77	4	US-10-425-115-234511	Sequence 234511, App
894	32	64.0	2014	4	US-10-220-955-18	Sequence 18, Appl	967	31	62.0	79	4	US-10-424-599-234812	Sequence 234812, App
895	32	64.0	2014	4	US-10-415-011-8	Sequence 8, Appl	968	31	62.0	79	4	US-10-437-963-170110	Sequence 170110, App
896	32	64.0	2040	4	US-10-132-382-4	Sequence 4, Appl	969	31	62.0	80	4	US-10-463-190-131	Sequence 131, App
897	32	64.0	19662	4	US-10-084-846A-6	Sequence 6, Appl	970	31	62.0	80	4	US-10-424-599-179500	Sequence 179500, App
898	31	62.0	13	3	US-10-615-659-31	Sequence 31, Appl	971	31	62.0	80	4	US-10-424-599-217221	Sequence 217221, App
899	31	62.0	18	3	US-09-864-761-46268	Sequence 46268, A	972	31	62.0	83	4	US-10-868-487-130	Sequence 130, App
900	31	62.0	20	3	US-09-855-604-101	Sequence 101, App	973	31	62.0	83	4	US-10-463-190-130	Sequence 130, App
901	31	62.0	31	3	US-09-855-604-101	Sequence 290, App	974	31	62.0	83	4	US-10-424-599-267363	Sequence 267363, App
902	31	62.0	31	3	US-09-910-082A-290	Sequence 407, App	975	31	62.0	83	4	US-10-437-963-153990	Sequence 153990, App
903	31	62.0	31	4	US-10-765-926-290	Sequence 290, App	976	31	62.0	83	4	US-10-425-115-274514	Sequence 274514, App
												US-10-425-115-295700	Sequence 295700, App

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977 31 62.0 83 5 US-10-868-497-99 Sequence 99, Appl
978 31 62.0 84 4 US-10-424-599-250087 Sequence 250087,
979 31 62.0 84 4 US-10-424-599-276265 Sequence 276265,
980 31 62.0 84 4 US-10-425-115-344631 Sequence 344631,
981 31 62.0 85 4 US-10-437-963-134352 Sequence 134352,
982 31 62.0 85 4 US-10-437-963-186307 Sequence 186307,
983 31 62.0 85 4 US-10-425-115-258842 Sequence 258842,
984 31 62.0 86 4 US-10-425-115-232087 Sequence 232087,
985 31 62.0 87 3 US-09-925-299-948 Sequence 948, App
986 31 62.0 87 3 US-09-925-299-948 Sequence 948, App
987 31 62.0 87 4 US-10-424-599-225233 Sequence 225233,
988 31 62.0 87 4 US-10-425-115-267647 Sequence 267647,
989 31 62.0 87 5 US-10-450-763-40806 Sequence 40806, A
990 31 62.0 88 4 US-10-425-115-212411 Sequence 212411,
991 31 62.0 88 6 US-11-108-045-23 Sequence 23, Appl
992 31 62.0 89 4 US-10-425-115-32746 Sequence 32746,
993 31 62.0 90 4 US-10-424-599-279485 Sequence 279485,
994 31 62.0 91 4 US-10-424-599-261666 Sequence 261666,
995 31 62.0 92 4 US-10-437-963-167176 Sequence 167176,
996 31 62.0 92 4 US-10-437-963-186931 Sequence 186931,
997 31 62.0 93 4 US-10-767-701-49570 Sequence 49570, A
998 31 62.0 94 4 US-10-424-599-255893 Sequence 255893,
999 31 62.0 94 4 US-10-425-115-293780 Sequence 293780,
1000 31 62.0 94 4 US-10-425-115-312095 Sequence 312095,
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ALIGNMENTS

```
RESULT 1
US-10-484-063-9
; Sequence 9, Application US/10484063
; Publication No. US20050048467A1
; GENERAL INFORMATION:
; APPLICANT: SASSTRY, K. JAGANNADHA
; APPLICANT: TORTOLERO-LUNA, GUILTERMO
; APPLICANT: FOLLEN, MICHELE
; TITLE OF INVENTION: METHODS AND COMPOSITIONS RELATING TO HPV-ASSOCIATED
; TITLE OF INVENTION: PRE-CANCEROUS AND CANCEROUS GROWTHS, INCLUDING CIN
; FILE REFERENCE: UTSC:56005
; CURRENT APPLICATION NUMBER: US/10/484,063
; CURRENT FILING DATE: 2004-01-16
; PRIOR APPLICATION NUMBER: PCT/US02/23198
; PRIOR FILING DATE: 2002-07-19
; PRIOR APPLICATION NUMBER: 60/306,809
; PRIOR FILING DATE: 2001-07-20
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 9
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-484-063-9

Query Match 100.0%; Score 50; DB 5; Length 16;
Best Local Similarity 100.0%; Pred. No. 1.2;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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RESULT 2
US-10-938-249-513
; Sequence 513, Application US/10938249
; Publication No. US20050037969A1
; GENERAL INFORMATION:
; APPLICANT: Lu, Peter S.
; APPLICANT: Rabinowitz, Joshua D.
; APPLICANT: Schweizer, Johannes
; APPLICANT: Arbor Vita Corporation
; TITLE OF INVENTION: Molecular Interactions in Hematopoietic
```

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; TITLE OF INVENTION: Cells
; FILE REFERENCE: 020054-001130US
; CURRENT APPLICATION NUMBER: US/10/938,249
; CURRENT FILING DATE: 2004-09-10
; PRIOR APPLICATION NUMBER: US/09/724,553
; PRIOR FILING DATE: 2000-11-28
; PRIOR APPLICATION NUMBER: US 60/134,114
; PRIOR FILING DATE: 1999-05-14
; PRIOR APPLICATION NUMBER: US 60/134,117
; PRIOR FILING DATE: 1999-05-14
; PRIOR APPLICATION NUMBER: US 60/134,118
; PRIOR FILING DATE: 1999-05-14
; PRIOR APPLICATION NUMBER: US 60/160,860
; PRIOR FILING DATE: 1999-10-21
; PRIOR APPLICATION NUMBER: US 60/162,498
; PRIOR FILING DATE: 1999-10-29
; PRIOR APPLICATION NUMBER: US 60/170,453
; PRIOR FILING DATE: 1999-12-13
; PRIOR APPLICATION NUMBER: US 60/176,195
; PRIOR FILING DATE: 2000-01-14
; PRIOR APPLICATION NUMBER: US 60/182,296
; PRIOR FILING DATE: 2000-02-14
; PRIOR APPLICATION NUMBER: US 60/196,267
; PRIOR FILING DATE: 2000-04-11
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 543
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 513
; LENGTH: 20
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: HPV16 E6 C-terminal
US-10-938-249-513
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Query Match 100.0%; Score 50; DB 5; Length 20;
Best Local Similarity 100.0%; Pred. No. 1.4;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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RESULT 3
US-10-476-570-44
; Sequence 44, Application US/10476570
; Publication No. US20040170644A1
; GENERAL INFORMATION:
; APPLICANT: COMMISSARIAT A L'ENERGIE ATOMIQUE
; APPLICANT: INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE
; APPLICANT: MAILLIER, Bernard
; APPLICANT: BOURGAULT-VILLADA, Isabelle
; APPLICANT: BOUVILLE-MORATILLE, Sandra
; APPLICANT: GUILLET, Jean-Gerard
; TITLE OF INVENTION: Mixture of peptides derived from E6 and/or E7
; TITLE OF INVENTION: papillomavirus proteins and uses thereof
; FILE REFERENCE: 45636-5071-US
; CURRENT APPLICATION NUMBER: US/10/476,570
; CURRENT FILING DATE: 2003-11-04
; PRIOR APPLICATION NUMBER: PCT/FR02/01533
; PRIOR FILING DATE: 2002-05-03
; PRIOR APPLICATION NUMBER: FR 01 05980
; PRIOR FILING DATE: 2001-05-04
; NUMBER OF SEQ ID NOS: 63
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 44
; LENGTH: 24
; TYPE: PRT
; ORGANISM: artificial sequence
; FEATURE:
; OTHER INFORMATION: Description of the artificial sequence: peptide E6 135-158
US-10-476-570-44
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Query Match 100.0%; Score 50; DB 4; Length 24;
Best Local Similarity 100.0%; Pred. No. 1.6;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MSCCRSRT 9
|||||||
10 MSCCRSRT 18

RESULT 4
US-10-177-390-6
Sequence 6, Application US/10177390
Publication No. US20030143743A1

GENERAL INFORMATION:
APPLICANT: Schuler, Gerold
APPLICANT: N.V. Antwerp Innovatiecentrum
TITLE OF INVENTION: Improved transfection of Eucaryotic Cells with linear
TITLE OF INVENTION: Polynucleotides by Electroporation
FILE REFERENCE: 021505wo/JH/ml
CURRENT APPLICATION NUMBER: US/10/177,390
CURRENT FILING DATE: 2002-06-20
NUMBER OF SEQ ID NOS: 34
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 6
LENGTH: 151
TYPE: PRT
ORGANISM: Human papillomavirus type 16
US-10-177-390-6

Query Match 100.0%; Score 50; DB 4; Length 151;
Best Local Similarity 100.0%; Pred. No. 6.9;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MSCCRSRT 9
|||||||
137 MSCCRSRT 145

RESULT 5
US-10-484-063-20
Sequence 20, Application US/10484063
Publication No. US20050048467A1
GENERAL INFORMATION:
APPLICANT: SASSTRY, K. JAGANNADHA
APPLICANT: TORTOLERO-LUNA, GUILLERMO
APPLICANT: FOLLEN, MICHELE
TITLE OF INVENTION: METHODS AND COMPOSITIONS RELATING TO HPV-ASSOCIATED
TITLE OF INVENTION: PRE-CANCEROUS AND CANCEROUS GROWTHS, INCLUDING CIN
FILE REFERENCE: UTSC:560US
CURRENT APPLICATION NUMBER: US/10/484,063
CURRENT FILING DATE: 2004-01-16
PRIOR APPLICATION NUMBER: PCT/US02/23198
PRIOR FILING DATE: 2002-07-19
PRIOR APPLICATION NUMBER: 60/306,809
PRIOR FILING DATE: 2001-07-20
NUMBER OF SEQ ID NOS: 27
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 20
LENGTH: 151
TYPE: PRT
ORGANISM: Human papillomavirus
US-10-484-063-20

Query Match 100.0%; Score 50; DB 5; Length 151;
Best Local Similarity 100.0%; Pred. No. 6.9;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MSCCRSRT 9
|||||||
137 MSCCRSRT 145

RESULT 6
US-10-484-063-27

Sequence 27, Application US/10484063
Publication No. US20050048467A1
GENERAL INFORMATION:
APPLICANT: SASSTRY, K. JAGANNADHA
APPLICANT: TORTOLERO-LUNA, GUILLERMO
APPLICANT: FOLLEN, MICHELE
TITLE OF INVENTION: METHODS AND COMPOSITIONS RELATING TO HPV-ASSOCIATED
TITLE OF INVENTION: PRE-CANCEROUS AND CANCEROUS GROWTHS, INCLUDING CIN
FILE REFERENCE: UTSC:560US
CURRENT APPLICATION NUMBER: US/10/484,063
CURRENT FILING DATE: 2004-01-16
PRIOR APPLICATION NUMBER: PCT/US02/23198
PRIOR FILING DATE: 2002-07-19
PRIOR APPLICATION NUMBER: 60/306,809
PRIOR FILING DATE: 2001-07-20
NUMBER OF SEQ ID NOS: 27
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 27
LENGTH: 151
TYPE: PRT
ORGANISM: Human papillomavirus type 16
US-10-484-063-27

Query Match 100.0%; Score 50; DB 5; Length 151;
Best Local Similarity 100.0%; Pred. No. 6.9;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MSCCRSRT 9
|||||||
137 MSCCRSRT 145

RESULT 7
US-10-858-384-2
Sequence 2, Application US/10858384
Publication No. US2005003025A1
GENERAL INFORMATION:
APPLICANT: CHOPIN, JEANNINE
APPLICANT: BOURGAULT VILLADA, ISABELLE
APPLICANT: GUILLET, JEAN-GERARD
APPLICANT: CONNAN, FRANCES
APPLICANT: FERRIES, ESTELLE
TITLE OF INVENTION: POLYPEPTIC PROTEIN FRAGMENTS OF THE E6 PROTEIN
TITLE OF INVENTION: OR E7 OF HPV, THEIR PRODUCTION AND THEIR USE
FILE REFERENCE: 0508-1037-1
CURRENT APPLICATION NUMBER: US/10/858,384
CURRENT FILING DATE: 2004-06-02
PRIOR APPLICATION NUMBER: FR 9907012
PRIOR FILING DATE: 1999-06-03
NUMBER OF SEQ ID NOS: 24
SOFTWARE: PatentIn Ver. 3.2
SEQ ID NO 2
LENGTH: 158
TYPE: PRT
ORGANISM: Human Papillomavirus
US-10-858-384-2

Query Match 100.0%; Score 50; DB 5; Length 158;
Best Local Similarity 100.0%; Pred. No. 7.1;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MSCCRSRT 9
|||||||
144 MSCCRSRT 152

RESULT 8
US-10-367-057-16
Sequence 16, Application US/10367057
Publication No. US20050100554A1

```

; GENERAL INFORMATION:
; APPLICANT: Cuthill, Scott;
; APPLICANT: Jackson, Amanda;
; APPLICANT: Lewin, David A.;
; APPLICANT: Ooi, Chean Eng
; TITLE OF INVENTION: Complexes and Methods of Using Same
; FILE REFERENCE: 21402-559
; CURRENT APPLICATION NUMBER: US/10/367,057
; CURRENT FILING DATE: 2003-02-14
; PRIOR APPLICATION NUMBER: 60/256,911
; PRIOR FILING DATE: 2002-02-14
; NUMBER OF SEQ ID NOS: 198
; SOFTWARE: CuraSeqList version 0.1
; SEQ ID NO 16
; LENGTH: 158
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-367-057-16

Query Match          100.0%; Score 50; DB 5; Length 158;
Best Local Similarity 100.0%; Pred. No. 7.1;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 MSCRRSRT 9
Db      144 MSCRRSRT 152

RESULT 9
US-11-021-949-13
; Sequence 13, Application US/11021949
; Publication No. US20050142541A1
; GENERAL INFORMATION:
; APPLICANT: LU, PETER
; APPLICANT: GARMAN, JONATHAN DAVID
; APPLICANT: BELMARES, MICHAEL P.
; APPLICANT: DIAZ-SARMIENTO, CHAMORO SOMOZA
; APPLICANT: SCHWEIZER, JOHANNES
; TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
; TITLE OF INVENTION: AND METHODS OF THEIR USE
; FILE REFERENCE: VITA-012
; CURRENT APPLICATION NUMBER: US/11/021,949
; CURRENT FILING DATE: 2004-12-23
; PRIOR APPLICATION NUMBER: 60/532,373
; PRIOR FILING DATE: 2003-12-23
; NUMBER OF SEQ ID NOS: 361
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 13
; LENGTH: 158
; TYPE: PRT
; ORGANISM: human papilloma virus (HPV)
US-11-021-949-13

Query Match          100.0%; Score 50; DB 6; Length 158;
Best Local Similarity 100.0%; Pred. No. 7.1;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 MSCRRSRT 9
Db      144 MSCRRSRT 152

RESULT 10
US-10-472-724-2
; Sequence 2, Application US/10472724
; Publication No. US20040171806A1
; GENERAL INFORMATION:
; APPLICANT: Cid-Arregui, Angel
; APPLICANT: Zur Hausen, Harald
; TITLE OF INVENTION: Modified HPV E6 and E7 genes and proteins useful for vaccination
; FILE REFERENCE: 4121-154
; CURRENT APPLICATION NUMBER: US/10/472,724
; CURRENT FILING DATE: 2003-09-17
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; PRIOR APPLICATION NUMBER: PCT/EP02/03271
; PRIOR FILING DATE: 2002-03-22
; PRIOR APPLICATION NUMBER: EP 01107271.7
; PRIOR FILING DATE: 2001-03-23
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 2
; LENGTH: 171
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Construct
US-10-472-724-2

Query Match          100.0%; Score 50; DB 4; Length 171;
Best Local Similarity 100.0%; Pred. No. 7.6;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 MSCRRSRT 9
Db      149 MSCRRSRT 157

RESULT 11
US-11-072-288-1
; Sequence 1, Application US/11072288
; Publication No. US20050159386A1
; GENERAL INFORMATION:
; APPLICANT: KIENY, Marie-Paule
; APPLICANT: BALLOUT, Jean-Marc
; APPLICANT: BIZOUARNE, Nadine
; TITLE OF INVENTION: ANTITUMORAL COMPOSITION BASED ON IMMUNOGENIC
; TITLE OF INVENTION: POLYPEPTIDE WITH MODIFIED CELL LOCATION
; FILE REFERENCE: 017753-122
; CURRENT APPLICATION NUMBER: US/11/072,288
; CURRENT FILING DATE: 2005-03-07
; PRIOR APPLICATION NUMBER: US/09/462,993
; PRIOR FILING DATE: 2000-04-17
; PRIOR APPLICATION NUMBER: PCT/FR98/01576
; PRIOR FILING DATE: 1998-07-17
; PRIOR APPLICATION NUMBER: FR 97/09152
; PRIOR FILING DATE: 1997-07-18
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: PatentIn Ver. 2.2
; SEQ ID NO 1
; LENGTH: 243
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Derived from
; OTHER INFORMATION: human papillomavirus, strain HPV-16, E6 protein
; OTHER INFORMATION: fused E protein signals, clone E6+TMF.
US-11-072-288-1

Query Match          100.0%; Score 50; DB 6; Length 243;
Best Local Similarity 100.0%; Pred. No. 10;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 MSCRRSRT 9
Db      167 MSCRRSRT 175

RESULT 12
US-09-367-309A-1
; Sequence 1, Application US/09367309A
; Publication No. US20020081329A1
; GENERAL INFORMATION:
; APPLICANT: MACFARLAN, RODERICK I.
; APPLICANT: MALLIAROS, JIM
; TITLE OF INVENTION: CHELATING IMMUNOSTIMULATING COMPLEXES
; FILE REFERENCE: 017227/0149
; CURRENT APPLICATION NUMBER: US/09/367,309A
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CURRENT FILING DATE: 1999-08-11
PRIOR APPLICATION NUMBER: PCT/AU98/00080
PRIOR FILING DATE: 1998-02-13
PRIOR APPLICATION NUMBER: AU PO 5178
PRIOR FILING DATE: 1997-02-19
NUMBER OF SEQ ID NOS: 6
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 1
LENGTH: 266
TYPE: PRT
ORGANISM: Human papillomavirus type 16
US-09-367-309A-1

Query Match 100.0%; Score 50; DB 3; Length 266;
Best Local Similarity 100.0%; Pred. No. 11;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MSCCRSRT 9
Db 144 MSCCRSRT 152

RESULT 13
US-10-000-903-4
Sequence 4, Application US/10000903
Publication No. US20020182221A1
GENERAL INFORMATION:
APPLICANT: Bruck, Claudine
APPLICANT: Cabezón Silva, Teresa
APPLICANT: Delisse, Anne-Marie Eva Bernande
APPLICANT: Gerard, Catherine Marie Ghislaine
APPLICANT: Lombardo-Bencheikh, Angela
TITLE OF INVENTION: Vaccine
FILE REFERENCE: B45107
CURRENT APPLICATION NUMBER: US/10/000,903
CURRENT FILING DATE: 2001-10-01
PRIOR APPLICATION NUMBER: PCT/EP98/05285
PRIOR FILING DATE: 1998-08-17
PRIOR APPLICATION NUMBER: GB 9717953.5
PRIOR FILING DATE: 1997-08-22
NUMBER OF SEQ ID NOS: 23
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 4
LENGTH: 273
TYPE: PRT
ORGANISM: Homo sapien
US-10-000-903-4

Query Match 100.0%; Score 50; DB 4; Length 273;
Best Local Similarity 100.0%; Pred. No. 11;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MSCCRSRT 9
Db 250 MSCCRSRT 258

RESULT 14
US-10-899-771-4
Sequence 4, Application US/10899771
Publication No. US20050031638A1
GENERAL INFORMATION:
APPLICANT: Dalemans, Wilfried L.J.
APPLICANT: Gerard, Catherine Marie Ghislaine
TITLE OF INVENTION: Compositions Comprising Human Papilloma Virus Proteins
TITLE OF INVENTION: and Fusion Proteins Adjuvanted with a Cpg Oligonucleotide
FILE REFERENCE: B45124
CURRENT APPLICATION NUMBER: US/10/899,771
CURRENT FILING DATE: 2004-07-27
PRIOR APPLICATION NUMBER: US/09/581,976
PRIOR FILING DATE: 2000-06-20
PRIOR APPLICATION NUMBER: PCT/EP98/08563
PRIOR FILING DATE: 1998-12-18

PRIOR APPLICATION NUMBER: GB 9727262.9
PRIOR FILING DATE: 1997-12-24
NUMBER OF SEQ ID NOS: 28
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 4
LENGTH: 273
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Chimeric protein (protein D from Haemophilus
OTHER INFORMATION: Influenzae B and E6 from Human papilloma virus type
OTHER INFORMATION: 16)
US-10-899-771-4

Query Match 100.0%; Score 50; DB 5; Length 273;
Best Local Similarity 100.0%; Pred. No. 11;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MSCCRSRT 9
Db 250 MSCCRSRT 258

RESULT 15
US-10-000-903-10
Sequence 10, Application US/10000903
Publication No. US20020182221A1
GENERAL INFORMATION:
APPLICANT: Bruck, Claudine
APPLICANT: Cabezón Silva, Teresa
APPLICANT: Delisse, Anne-Marie Eva Bernande
APPLICANT: Gerard, Catherine Marie Ghislaine
APPLICANT: Lombardo-Bencheikh, Angela
TITLE OF INVENTION: Vaccine
FILE REFERENCE: B45107
CURRENT APPLICATION NUMBER: US/10/000,903
CURRENT FILING DATE: 2001-10-01
PRIOR APPLICATION NUMBER: PCT/EP98/05285
PRIOR FILING DATE: 1998-08-17
PRIOR APPLICATION NUMBER: GB 9717953.5
PRIOR FILING DATE: 1997-08-22
NUMBER OF SEQ ID NOS: 23
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 10
LENGTH: 292
TYPE: PRT
ORGANISM: Homo sapien
US-10-000-903-10

Query Match 100.0%; Score 50; DB 4; Length 292;
Best Local Similarity 100.0%; Pred. No. 12;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MSCCRSRT 9
Db 269 MSCCRSRT 277

RESULT 16
US-10-899-771-10
Sequence 10, Application US/10899771
Publication No. US20050031638A1
GENERAL INFORMATION:
APPLICANT: Dalemans, Wilfried L.J.
APPLICANT: Gerard, Catherine Marie Ghislaine
TITLE OF INVENTION: Compositions Comprising Human Papilloma Virus Proteins
TITLE OF INVENTION: and Fusion Proteins Adjuvanted with a Cpg Oligonucleotide
FILE REFERENCE: B45124
CURRENT APPLICATION NUMBER: US/10/899,771
CURRENT FILING DATE: 2004-07-27
PRIOR APPLICATION NUMBER: US/09/581,976
PRIOR FILING DATE: 2000-06-20
PRIOR APPLICATION NUMBER: PCT/EP98/08563

;; PRIOR FILING DATE: 1998-12-18
;; PRIOR APPLICATION NUMBER: GB 9727262.9
;; PRIOR FILING DATE: 1997-12-24
;; NUMBER OF SEQ ID NOS: 28
;; SOFTWARE: FastSeq for Windows Version 3.0
;; SEQ ID NO 10
;; LENGTH: 292
;; TYPE: PRT
;; ORGANISM: Artificial Sequence
;; FEATURE:
;; OTHER INFORMATION: Chimeric protein (Clyta from Streptococcus
;; OTHER INFORMATION: pneumoniae and E6 from Human papilloma virus type
;; OTHER INFORMATION: 16)
US-10-899-771-10

Query Match 100.0%; Score 50; DB 5; Length 292;
Best Local Similarity 100.0%; Pred. No. 12;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 MSCCRSRT 9
Db 269 MSCCRSRT 277

RESULT 17
US-10-000-903-6
;; Sequence 6, Application US/10000903
;; Publication No. US20020182221A1
;; GENERAL INFORMATION:
;; APPLICANT: Bruck, Claudine
;; APPLICANT: Cabazon Silva, Teresa
;; APPLICANT: Delisse, Anne-Marie Eva Bernande
;; APPLICANT: Gerard, Catherine Marie Ghislaine
;; APPLICANT: Lombardo-Bencheikh, Angela
;; TITLE OF INVENTION: Vaccine
;; FILE REFERENCE: B45107
;; CURRENT APPLICATION NUMBER: US/10/000,903
;; CURRENT FILING DATE: 2001-10-01
;; PRIOR APPLICATION NUMBER: PCT/EP98/05285
;; PRIOR FILING DATE: 1998-08-17
;; PRIOR APPLICATION NUMBER: GB 9717953.5
;; PRIOR FILING DATE: 1997-08-22
;; NUMBER OF SEQ ID NOS: 23
;; SOFTWARE: FastSeq for Windows Version 3.0
;; SEQ ID NO 6
;; LENGTH: 371
;; TYPE: PRT
;; ORGANISM: Homo sapien
US-10-000-903-6

Query Match 100.0%; Score 50; DB 4; Length 371;
Best Local Similarity 100.0%; Pred. No. 14;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 MSCCRSRT 9
Db 250 MSCCRSRT 258

RESULT 18
US-10-899-771-6
;; Sequence 6, Application US/10899771
;; Publication No. US20050031638A1
;; GENERAL INFORMATION:
;; APPLICANT: Dalemans, Wilfried L.J.
;; APPLICANT: Gerard, Catherine Marie Ghislaine
;; TITLE OF INVENTION: Compositions Comprising Human Papilloma Virus Proteins
;; TITLE OF INVENTION: and Fusion Proteins Adjuncted with a Cpg Oligonucleotide
;; FILE REFERENCE: B45124
;; CURRENT APPLICATION NUMBER: US/10/899,771
;; CURRENT FILING DATE: 2004-07-27
;; PRIOR APPLICATION NUMBER: US/09/581,976
;; PRIOR FILING DATE: 2000-06-20

;; PRIOR APPLICATION NUMBER: PCT/EP98/08563
;; PRIOR FILING DATE: 1998-12-18
;; PRIOR APPLICATION NUMBER: GB 9727262.9
;; PRIOR FILING DATE: 1997-12-24
;; NUMBER OF SEQ ID NOS: 28
;; SOFTWARE: FastSeq for Windows Version 3.0
;; SEQ ID NO 6
;; LENGTH: 371
;; TYPE: PRT
;; ORGANISM: Artificial Sequence
;; FEATURE:
;; OTHER INFORMATION: Chimeric protein (protein D from Haemophilus
;; OTHER INFORMATION: influenzae B and E6E7 fusion from Human papilloma
;; OTHER INFORMATION: virus type 16)
US-10-899-771-6

Query Match 100.0%; Score 50; DB 5; Length 371;
Best Local Similarity 100.0%; Pred. No. 14;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 MSCCRSRT 9
Db 250 MSCCRSRT 258

RESULT 19
US-10-000-903-14
;; Sequence 14, Application US/10000903
;; Publication No. US20020182221A1
;; GENERAL INFORMATION:
;; APPLICANT: Bruck, Claudine
;; APPLICANT: Cabazon Silva, Teresa
;; APPLICANT: Delisse, Anne-Marie Eva Bernande
;; APPLICANT: Gerard, Catherine Marie Ghislaine
;; APPLICANT: Lombardo-Bencheikh, Angela
;; TITLE OF INVENTION: Vaccine
;; FILE REFERENCE: B45107
;; CURRENT APPLICATION NUMBER: US/10/000,903
;; CURRENT FILING DATE: 2001-10-01
;; PRIOR APPLICATION NUMBER: PCT/EP98/05285
;; PRIOR FILING DATE: 1998-08-17
;; PRIOR APPLICATION NUMBER: GB 9717953.5
;; PRIOR FILING DATE: 1997-08-22
;; NUMBER OF SEQ ID NOS: 23
;; SOFTWARE: FastSeq for Windows Version 3.0
;; SEQ ID NO 14
;; LENGTH: 390
;; TYPE: PRT
;; ORGANISM: Homo sapien
US-10-000-903-14

Query Match 100.0%; Score 50; DB 4; Length 390;
Best Local Similarity 100.0%; Pred. No. 14;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 MSCCRSRT 9
Db 269 MSCCRSRT 277

RESULT 20
US-10-899-771-14
;; Sequence 14, Application US/10899771
;; Publication No. US20050031638A1
;; GENERAL INFORMATION:
;; APPLICANT: Dalemans, Wilfried L.J.
;; APPLICANT: Gerard, Catherine Marie Ghislaine
;; TITLE OF INVENTION: Compositions Comprising Human Papilloma Virus Proteins
;; TITLE OF INVENTION: and Fusion Proteins Adjuncted with a Cpg Oligonucleotide
;; FILE REFERENCE: B45124
;; CURRENT APPLICATION NUMBER: US/10/899,771
;; CURRENT FILING DATE: 2004-07-27
;; PRIOR APPLICATION NUMBER: US/09/581,976

PRIOR FILING DATE: 2000-06-20
PRIOR APPLICATION NUMBER: PCT/EP98/08563
PRIOR FILING DATE: 1998-12-18
PRIOR APPLICATION NUMBER: GB 9727262.9
PRIOR FILING DATE: 1997-12-24
NUMBER OF SEQ ID NOS: 28
SOFTWARE: FASTSEQ for Windows Version 3.0
SEQ ID NO 14
LENGTH: 390
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE: CHINAETIC PROTEIN (CYLYTA FROM STREPTOCOCCUS
OTHER INFORMATION: pneumoniae and E6E7 fusion from Human Papilloma
OTHER INFORMATION: virus type 16)
US-10-899-771-14

Query Match 100.0%; Score 50; DB 5; Length 390;
Best Local Similarity 100.0%; Pred. No. 14;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 1 MSCCRSRT 9
Db 269 MSCCRSRT 277

RESULT 21

US-10-425-114-67214
Sequence 67214, Application US/10425114
Publication No. US20040034888A1
GENERAL INFORMATION:
APPLICANT: Liu, Jingdong
APPLICANT: Zhou, Yihua
APPLICANT: Kovalic, David K.
APPLICANT: Screen, Steven E.
APPLICANT: Tabaska, Jack E.
APPLICANT: Cao, Yongwei
TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
FILE REFERENCE: 38-21(5313)B
CURRENT APPLICATION NUMBER: US/10/425,114
CURRENT FILING DATE: 2003-04-28
NUMBER OF SEQ ID NOS: 73128
SEQ ID NO 67214
LENGTH: 125
TYPE: PRT
ORGANISM: Zea mays
FEATURE:
OTHER INFORMATION: Clone ID: LIB4760-024-FLI_PFI.pep
US-10-425-114-67214

Query Match 84.0%; Score 42; DB 4; Length 125;
Best Local Similarity 87.5%; Pred. No. 83;
Matches 7; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Oy 2 SCCRSTRT 9
Db 97 SCCRSTRT 104

RESULT 22

US-10-424-599-245237
Sequence 245237, Application US/10424599
Publication No. US20040031072A1
GENERAL INFORMATION:
APPLICANT: La Rosa Thomas J
APPLICANT: Kovalic David K
APPLICANT: Zhou Yihua
APPLICANT: Cao Yongwei
TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
FILE REFERENCE: 38-21(5323)B
CURRENT APPLICATION NUMBER: US/10/424,599

CURRENT FILING DATE: 2003-04-28
NUMBER OF SEQ ID NOS: 285684
SEQ ID NO 245237
LENGTH: 35
TYPE: PRT
ORGANISM: Glycine max
FEATURE:
OTHER INFORMATION: Clone ID: PAT_MRT3847_6347C.1.pep
US-10-424-599-245237

Query Match 82.0%; Score 41; DB 4; Length 35;
Best Local Similarity 100.0%; Pred. No. 42;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 3 CCRSRT 9
Db 24 CCRSRT 30

RESULT 23

US-10-484-063-10
Sequence 10, Application US/10484063
Publication No. US20050048467A1
GENERAL INFORMATION:
APPLICANT: SASTRY, K. JAGANNADHA
APPLICANT: TORTOLERO-LUNA, GUILLERMO
APPLICANT: FOLLEN, MICHELE
TITLE OF INVENTION: METHODS AND COMPOSITIONS RELATING TO HPV-ASSOCIATED
FILE REFERENCE: UTSC:560US
CURRENT APPLICATION NUMBER: US/10/484,063
CURRENT FILING DATE: 2004-01-16
PRIOR APPLICATION NUMBER: PCT/US02/23198
PRIOR FILING DATE: 2002-07-19
PRIOR APPLICATION NUMBER: 60/306,809
PRIOR FILING DATE: 2001-07-20
NUMBER OF SEQ ID NOS: 27
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 10
LENGTH: 10
TYPE: PRT
ORGANISM: Human papillomavirus
US-10-484-063-10

Query Match 80.0%; Score 40; DB 5; Length 10;
Best Local Similarity 100.0%; Pred. No. 22;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 1 MSCCRSS 7
Db 4 MSCCRSS 10

RESULT 24

US-09-397-945-213
Sequence 213, Application US/09397945
Publication No. US20030065139A1
GENERAL INFORMATION:
APPLICANT: Human Genome Sciences, Inc. et al.
TITLE OF INVENTION: 95 Human secreted proteins
FILE REFERENCE: P2027P1
CURRENT APPLICATION NUMBER: US/09/397,945
CURRENT FILING DATE: 1999-09-17
PRIOR APPLICATION NUMBER: PCT/US99/05804
PRIOR FILING DATE: 1999-03-18
PRIOR APPLICATION NUMBER: 60/078,566
PRIOR FILING DATE: 1998-03-19
PRIOR APPLICATION NUMBER: 60/078,576
PRIOR FILING DATE: 1998-03-19
PRIOR APPLICATION NUMBER: 60/078,573
PRIOR FILING DATE: 1998-03-19
PRIOR APPLICATION NUMBER: 60/078,574
PRIOR FILING DATE: 1998-03-19

PRIOR APPLICATION NUMBER: 60/078,579
PRIOR FILING DATE: 1998-03-19
PRIOR APPLICATION NUMBER: 60/080,314
PRIOR FILING DATE: 1998-04-01
PRIOR APPLICATION NUMBER: 60/080,312
PRIOR FILING DATE: 1998-04-01
PRIOR APPLICATION NUMBER: 60/078,578
PRIOR FILING DATE: 1998-03-19
PRIOR APPLICATION NUMBER: 60/078,581
PRIOR FILING DATE: 1998-03-19
PRIOR APPLICATION NUMBER: 60/078,577
PRIOR FILING DATE: 1998-03-19
PRIOR APPLICATION NUMBER: 60/078,563
PRIOR FILING DATE: 1998-03-19
PRIOR APPLICATION NUMBER: 60/080,313
PRIOR FILING DATE: 1998-04-01
NUMBER OF SEQ ID NOS: 470
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 213
LENGTH: 43
TYPE: PRT
ORGANISM: Homo sapiens
US-09-397-945-213

Query Match 80.0%; Score 40; DB 3; Length 43;
Best Local Similarity 100.0%; Pred. No. 69;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 SCCRSSR 8
Db 10 SCCRSSR 16

RESULT 25
US-10-653-595-213
Sequence 213, Application US/10653595
Publication No. US20040048304A1
GENERAL INFORMATION:
APPLICANT: Ruben et. al.
TITLE OF INVENTION: 95 Human secreted proteins
FILE REFERENCE: P2027P1C1
CURRENT APPLICATION NUMBER: US/10/653,595
CURRENT FILING DATE: 2003-09-03
PRIOR APPLICATION NUMBER: US 09/397945
PRIOR FILING DATE: 1999-09-17
PRIOR APPLICATION NUMBER: PCT/US99/05804
PRIOR FILING DATE: 1999-03-18
PRIOR APPLICATION NUMBER: 60/078,566
PRIOR FILING DATE: 1998-03-19
PRIOR APPLICATION NUMBER: 60/078,576
PRIOR FILING DATE: 1998-03-19
PRIOR APPLICATION NUMBER: 60/078,573
PRIOR FILING DATE: 1998-03-19
PRIOR APPLICATION NUMBER: 60/078,574
PRIOR FILING DATE: 1998-03-19
PRIOR APPLICATION NUMBER: 60/078,579
PRIOR FILING DATE: 1998-03-19
PRIOR APPLICATION NUMBER: 60/080,314
PRIOR FILING DATE: 1998-04-01
PRIOR APPLICATION NUMBER: 60/080,312
PRIOR FILING DATE: 1998-04-01
PRIOR APPLICATION NUMBER: 60/078,578
PRIOR FILING DATE: 1998-03-19
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 470
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 213
LENGTH: 43
TYPE: PRT
ORGANISM: Homo sapiens
US-10-653-595-213

Query Match 80.0%; Score 40; DB 4; Length 43;

Best Local Similarity 100.0%; Pred. No. 69;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 SCCRSSR 8
Db 10 SCCRSSR 16

RESULT 26
US-09-397-945-211
Sequence 211, Application US/09397945
Publication No. US20030065139A1
GENERAL INFORMATION:
APPLICANT: Human Genome Sciences, Inc. et al.
TITLE OF INVENTION: 95 Human secreted proteins
FILE REFERENCE: P2027P1
CURRENT APPLICATION NUMBER: US/09/397,945
CURRENT FILING DATE: 1999-09-17
PRIOR APPLICATION NUMBER: PCT/US99/05804
PRIOR FILING DATE: 1999-03-18
PRIOR APPLICATION NUMBER: 60/078,566
PRIOR FILING DATE: 1998-03-19
PRIOR APPLICATION NUMBER: 60/078,576
PRIOR FILING DATE: 1998-03-19
PRIOR APPLICATION NUMBER: 60/078,573
PRIOR FILING DATE: 1998-03-19
PRIOR APPLICATION NUMBER: 60/078,574
PRIOR FILING DATE: 1998-03-19
PRIOR APPLICATION NUMBER: 60/078,579
PRIOR FILING DATE: 1998-03-19
PRIOR APPLICATION NUMBER: 60/080,314
PRIOR FILING DATE: 1998-04-01
PRIOR APPLICATION NUMBER: 60/080,312
PRIOR FILING DATE: 1998-04-01
PRIOR APPLICATION NUMBER: 60/078,578
PRIOR FILING DATE: 1998-03-19
PRIOR APPLICATION NUMBER: 60/078,581
PRIOR FILING DATE: 1998-03-19
PRIOR APPLICATION NUMBER: 60/078,577
PRIOR FILING DATE: 1998-03-19
PRIOR APPLICATION NUMBER: 60/078,563
PRIOR FILING DATE: 1998-03-19
PRIOR APPLICATION NUMBER: 60/080,313
PRIOR FILING DATE: 1998-04-01
NUMBER OF SEQ ID NOS: 470
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 211
LENGTH: 137
TYPE: PRT
ORGANISM: Homo sapiens
NAME/KEY: SITE
LOCATION: (10)
OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
US-09-397-945-211

Query Match 80.0%; Score 40; DB 3; Length 137;
Best Local Similarity 100.0%; Pred. No. 17e+02;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 SCCRSSR 8
Db 51 SCCRSSR 57

RESULT 27
US-10-653-595-211
Sequence 211, Application US/10653595
Publication No. US20040048304A1
GENERAL INFORMATION:
APPLICANT: Ruben et. al.
TITLE OF INVENTION: 95 Human secreted proteins
FILE REFERENCE: P2027P1C1

CURRENT APPLICATION NUMBER: US/10/653,595
CURRENT FILING DATE: 2003-09-03
PRIORITY APPLICATION NUMBER: US 09/397945
PRIORITY FILING DATE: 1999-09-17
PRIORITY APPLICATION NUMBER: PCT/US99/05804
PRIORITY FILING DATE: 1999-03-18
PRIORITY APPLICATION NUMBER: 60/078,566
PRIORITY FILING DATE: 1998-03-19
PRIORITY APPLICATION NUMBER: 60/078,576
PRIORITY FILING DATE: 1998-03-19
PRIORITY APPLICATION NUMBER: 60/078,573
PRIORITY FILING DATE: 1998-03-19
PRIORITY APPLICATION NUMBER: 60/078,574
PRIORITY FILING DATE: 1998-03-19
PRIORITY APPLICATION NUMBER: 60/078,579
PRIORITY FILING DATE: 1998-03-19
PRIORITY APPLICATION NUMBER: 60/080,314
PRIORITY FILING DATE: 1998-04-01
PRIORITY APPLICATION NUMBER: 60/080,312
PRIORITY FILING DATE: 1998-04-01
PRIORITY APPLICATION NUMBER: 60/078,578
PRIORITY FILING DATE: 1998-03-19
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 470
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 211
LENGTH: 137
TYPE: PRT
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: SITE
LOCATION: (10)
OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
US-10-653-595-211

Query Match 80.0%; Score 40; DB 4; Length 137;
Best Local Similarity 100.0%; Pred. No. 1.7e+02;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 SCCRSSR 8
DB 51 SCCRSSR 57

RESULT 28
US-10-424-599-233659
Sequence 233659, Application US/10424599
Publication No. US20040031072A1
GENERAL INFORMATION:
APPLICANT: La Rosa Thomas J
APPLICANT: Kovalic David K
APPLICANT: Zhou Yihua
APPLICANT: Cao Yongwei
TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated with
TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
FILE REFERENCE: 38-21(53223)B
CURRENT APPLICATION NUMBER: US/10/424,599
CURRENT FILING DATE: 2003-04-28
NUMBER OF SEQ ID NOS: 285684
SEQ ID NO 233659
LENGTH: 82
TYPE: PRT
ORGANISM: Glycine max
FEATURE:
OTHER INFORMATION: Clone ID: PAT_MRT3847_53019C.1.pep
US-10-424-599-233659

Query Match 76.0%; Score 38; DB 4; Length 82;
Best Local Similarity 66.7%; Pred. No. 2.2e+02;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 MSCRSSRT 9
DB 1 MSCRSSRT 9

DB 25 MSCRPTRS 33

RESULT 29
US-10-437-963-160782
Sequence 160782, Application US/10437963
Publication No. US20040123343A1
GENERAL INFORMATION:
APPLICANT: La Rosa, Thomas J.
APPLICANT: Kovalic, David K.
APPLICANT: Zhou, Yihua
APPLICANT: Cao, Yongwei
APPLICANT: Wu, Wei
APPLICANT: Boukharov, Andrey A.
APPLICANT: Barbazuk, Brad
APPLICANT: Li, Ping
TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated with
TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
FILE REFERENCE: 38-21(53221)B
CURRENT APPLICATION NUMBER: US/10/437,963
CURRENT FILING DATE: 2003-05-14
NUMBER OF SEQ ID NOS: 204966
SEQ ID NO 160782
LENGTH: 51
TYPE: PRT
ORGANISM: Oryza sativa
FEATURE:
OTHER INFORMATION: Clone ID: PAT_MRT4530_60028C.1.pep
US-10-437-963-160782

Query Match 74.0%; Score 37; DB 4; Length 51;
Best Local Similarity 75.0%; Pred. No. 2.1e+02;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 2 SCCRSSRT 9
DB 12 TCCSSRT 19

RESULT 30
US-10-424-599-204363
Sequence 204363, Application US/10424599
Publication No. US20040031072A1
GENERAL INFORMATION:
APPLICANT: La Rosa Thomas J
APPLICANT: Kovalic David K
APPLICANT: Zhou Yihua
APPLICANT: Cao Yongwei
TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated with
TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
FILE REFERENCE: 38-21(53223)B
CURRENT APPLICATION NUMBER: US/10/424,599
CURRENT FILING DATE: 2003-04-28
NUMBER OF SEQ ID NOS: 285684
SEQ ID NO 204363
LENGTH: 67
TYPE: PRT
ORGANISM: Glycine max
FEATURE:
OTHER INFORMATION: Clone ID: PAT_MRT3847_26567C.1.pep
US-10-424-599-204363

Query Match 74.0%; Score 37; DB 4; Length 67;
Best Local Similarity 75.0%; Pred. No. 2.6e+02;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 MSCRSSR 8
DB 36 LSCCMSR 43

RESULT 31
US-10-425-115-244446

```
; Sequence 244446, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53222)B
; CURRENT APPLICATION NUMBER: US/10/425,115
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 244446
; LENGTH: 69
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)-(69)
; OTHER INFORMATION: unsure at all Xaa locations
; OTHER INFORMATION: Clone ID: MRT4577_154520C.1.pep
US-10-425-115-244446

Query Match          74.0%; Score 37; DB 4; Length 69;
Best Local Similarity 87.5%; Pred. No. 2.7e+02;
Matches 7; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      2 SCCRSSRT 9
Db      35 SCCFSSRT 42

RESULT 32
US-10-767-701-47475
; Sequence 47475, Application US/10767701
; Publication No. US20040172686A1
; GENERAL INFORMATION:
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53535)B
; CURRENT APPLICATION NUMBER: US/10/767,701
; CURRENT FILING DATE: 2004-01-29
; NUMBER OF SEQ ID NOS: 63128
; SEQ ID NO 47475
; LENGTH: 132
; TYPE: PRT
; ORGANISM: Sorghum bicolor
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)-(132)
; OTHER INFORMATION: unsure at all Xaa locations
; OTHER INFORMATION: Clone ID: LIB3480-043-P1-K1-E7.pep
US-10-767-701-47475

Query Match          74.0%; Score 37; DB 4; Length 132;
Best Local Similarity 66.7%; Pred. No. 4.5e+02;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;
```

```
; GENERAL INFORMATION:
; APPLICANT: Liu, Jindong
; APPLICANT: Zhou, Yihua
; APPLICANT: Kovalic, David K.
; APPLICANT: Screen, Steven E
; APPLICANT: Tabaska, Jack E
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(5313)B
; CURRENT APPLICATION NUMBER: US/10/425,114
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 73128
; SEQ ID NO 44271
; LENGTH: 188
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: 701181412_FLI.pep
US-10-425-114-44271

Query Match          74.0%; Score 37; DB 4; Length 188;
Best Local Similarity 75.0%; Pred. No. 5.9e+02;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY      2 SCCRSSRT 9
Db      158 SCCFSSRT 165

RESULT 34
US-10-425-114-65786
; Sequence 65786, Application US/10425114
; Publication No. US20040034888A1
; GENERAL INFORMATION:
; APPLICANT: Liu, Jindong
; APPLICANT: Zhou, Yihua
; APPLICANT: Kovalic, David K.
; APPLICANT: Screen, Steven E
; APPLICANT: Tabaska, Jack E
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(5313)B
; CURRENT APPLICATION NUMBER: US/10/425,114
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 73128
; SEQ ID NO 65786
; LENGTH: 245
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: LIB3245-175-H1_FLI.pep
US-10-425-114-65786

Query Match          74.0%; Score 37; DB 4; Length 245;
Best Local Similarity 75.0%; Pred. No. 7.2e+02;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY      2 SCCRSSRT 9
Db      3 TCRCRSRT 10

RESULT 35
US-11-097-143-40851
; Sequence 40851, Application US/11097143
; Publication No. US20050208558A1
; GENERAL INFORMATION:
; APPLICANT: Venter, J. Craig
; APPLICANT: et al.
; TITLE OF INVENTION: DETECTION KIT, SUCH AS NUCLEIC ACID
; TITLE OF INVENTION: ARRAYS, FOR DETECTING EXPRESSION OF 10,000 OR MORE
```


TITLE OF INVENTION: DROSOPHILA GENES.
FILE REFERENCE: CL000728
CURRENT APPLICATION NUMBER: US/11/097,143
CURRENT FILING DATE: 2005-04-04
PRIOR APPLICATION NUMBER: 60/157,832
PRIOR FILING DATE: 1999-10-05
PRIOR APPLICATION NUMBER: 60/160,191
PRIOR FILING DATE: 1999-10-19
PRIOR APPLICATION NUMBER: 60/161,932
PRIOR FILING DATE: 1999-10-28
PRIOR APPLICATION NUMBER: 60/164,769
PRIOR FILING DATE: 1999-11-12
PRIOR APPLICATION NUMBER: 60/173,383
PRIOR FILING DATE: 1999-12-28
PRIOR APPLICATION NUMBER: 60/175,693
PRIOR FILING DATE: 2000-01-12
PRIOR APPLICATION NUMBER: 60/184,831
PRIOR FILING DATE: 2000-02-24
PRIOR APPLICATION NUMBER: 60/191,637
PRIOR FILING DATE: 2000-03-23
NUMBER OF SEQ ID NOS: 43008
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 40851
LENGTH: 513
TYPE: PRT
ORGANISM: DROSOPHILA
US-11-097-143-40851

Query Match 74.0%; Score 37; DB 6; Length 513;
Best Local Similarity 85.7%; Pred. No. 1.3e+03;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 3 CCRSRT 9
Db 412 CCRSRT 418

RESULT 36
US-10-437-963-196497
Sequence 196497, Application US/10437963
Publication No. US20040123343A1
GENERAL INFORMATION:
APPLICANT: La Rosa, Thomas J.
APPLICANT: Zhou, Yihua
APPLICANT: Cao, Yongwei
APPLICANT: Wu, Wei
APPLICANT: Boucharov, Andrey A.
APPLICANT: Barbazuk, Brad
APPLICANT: Li, Ping
TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated with
TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
FILE REFERENCE: 38-21(53221)B
CURRENT APPLICATION NUMBER: US/10/437,963
CURRENT FILING DATE: 2003-05-14
NUMBER OF SEQ ID NOS: 204966
SEQ ID NO 196497
LENGTH: 686
TYPE: PRT
ORGANISM: Oryza sativa
FEATURE:
OTHER INFORMATION: Clone ID: PAT_MRT4530_92343C.1.pcp
US-10-437-963-196497

Query Match 74.0%; Score 37; DB 4; Length 686;
Best Local Similarity 85.7%; Pred. No. 1.6e+03;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 3 CCRSRT 9
Db 297 CCRSRT 303

RESULT 37
US-09-864-761-36259
Sequence 36259, Application US/09864761
Patent No. US20020048763A1

GENERAL INFORMATION:
APPLICANT: Penn, Sharon G.
APPLICANT: Rank, David R.
APPLICANT: Hanzel, David K.
APPLICANT: Chen, Wensheng
TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FOR
FILE REFERENCE: Aeomica-X-1
CURRENT APPLICATION NUMBER: US/09/864,761
CURRENT FILING DATE: 2001-05-23

PRIOR APPLICATION NUMBER: US 60/180,312
PRIOR FILING DATE: 2000-02-04
PRIOR APPLICATION NUMBER: US 60/207,456
PRIOR FILING DATE: 2000-05-26
PRIOR APPLICATION NUMBER: US 09/632,366
PRIOR FILING DATE: 2000-08-03
PRIOR APPLICATION NUMBER: GB 24263.6
PRIOR FILING DATE: 2000-10-04
PRIOR APPLICATION NUMBER: US 60/236,359
PRIOR FILING DATE: 2000-09-27
PRIOR APPLICATION NUMBER: PCT/US01/00666
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00667
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00664
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00669
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00665
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00668
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00663
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00662
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00661
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00670
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: US 60/234,687
PRIOR FILING DATE: 2000-09-21
PRIOR APPLICATION NUMBER: US 09/608,408
PRIOR FILING DATE: 2000-06-30
PRIOR APPLICATION NUMBER: US 09/774,203
PRIOR FILING DATE: 2001-01-29
NUMBER OF SEQ ID NOS: 49117
SOFTWARE: Anomax Sequence Listing Engine vers. 1.1
SEQ ID NO 36259
LENGTH: 61
TYPE: PRT
ORGANISM: Homo sapiens

OTHER INFORMATION: MAP TO AF134726.1
OTHER INFORMATION: EXPRESSED IN HBL100, SIGNAL = 6.1
OTHER INFORMATION: EXPRESSED IN FETAL LIVER, SIGNAL = 20
OTHER INFORMATION: EXPRESSED IN LUNG, SIGNAL = 87
OTHER INFORMATION: EXPRESSED IN BONE MARROW, SIGNAL = 15
OTHER INFORMATION: EXPRESSED IN PLACENTA, SIGNAL = 4.9
OTHER INFORMATION: EXPRESSED IN HEART, SIGNAL = 7.9
OTHER INFORMATION: EXPRESSED IN HELA, SIGNAL = 11
OTHER INFORMATION: EXPRESSED IN ADULT LIVER, SIGNAL = 3.8
OTHER INFORMATION: EXPRESSED IN BRAIN, SIGNAL = 3.7
OTHER INFORMATION: EST HUMAN HIT: AW630923.1, EVALUE 7.00e-22
OTHER INFORMATION: SWISSPROT HIT: Q06428, EVALUE 1.60e+00
US-09-864-761-36259

Query Match 72.0%; Score 36; DB 3; Length 61;

Best Local Similarity 75.0%; Pred. No. 3.4e+02;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 2 SCCRST 9
Db 51 SCCRST 58

RESULT 38

US-10-437-963-173711
; Sequence 173711, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; APPLICANT: Wu, Wei
; APPLICANT: Boukharov, Andrey A.
; APPLICANT: Barbazuk, Brad
; APPLICANT: Li, Ping
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated with
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53221)B
; CURRENT APPLICATION NUMBER: US/10/437,963
; CURRENT FILING DATE: 2003-05-14
; NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 173711
; LENGTH: 71
; TYPE: PRT
; ORGANISM: Oryza sativa
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT4530_71721C.1.pep
US-10-437-963-173711

Query Match 72.0%; Score 36; DB 4; Length 71;
Best Local Similarity 75.0%; Pred. No. 3.8e+02;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 2 SCCRST 9
Db 39 SCCRST 46

RESULT 39
US-11-097-143-23805
; Sequence 23805, Application US/11097143
; Publication No. US20050208558A1
; GENERAL INFORMATION:
; APPLICANT: Venter, J. Craig
; APPLICANT: et al.
; TITLE OF INVENTION: DETECTION KIT, SUCH AS NUCLEIC ACID
; TITLE OF INVENTION: ARRAYS, FOR DETECTING EXPRESSION OF 10,000 OR MORE
; FILE REFERENCE: CLO00728
; CURRENT APPLICATION NUMBER: US/11/097,143
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: 60/157,832
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: 60/160,191
; PRIOR FILING DATE: 1999-10-19
; PRIOR APPLICATION NUMBER: 60/164,769
; PRIOR FILING DATE: 1999-10-28
; PRIOR APPLICATION NUMBER: 60/161,932
; PRIOR FILING DATE: 1999-10-28
; PRIOR APPLICATION NUMBER: 60/175,693
; PRIOR FILING DATE: 2000-01-12
; PRIOR APPLICATION NUMBER: 60/184,831
; PRIOR FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: 60/191,637
; PRIOR FILING DATE: 2000-03-23

; NUMBER OF SEQ ID NOS: 43008
; SOFTWARE: FASTSEQ for Windows Version 4.0
; SEQ ID NO 23805
; LENGTH: 80
; TYPE: PRT
; ORGANISM: DROSOPHILA
US-11-097-143-23805

Query Match 72.0%; Score 36; DB 6; Length 80;
Best Local Similarity 75.0%; Pred. No. 4.2e+02;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 2 SCCRST 9
Db 8 SCCRST 15

RESULT 40
US-10-437-963-135435
; Sequence 135435, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; APPLICANT: Wu, Wei
; APPLICANT: Boukharov, Andrey A.
; APPLICANT: Barbazuk, Brad
; APPLICANT: Li, Ping
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated with
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53221)B
; CURRENT APPLICATION NUMBER: US/10/437,963
; CURRENT FILING DATE: 2003-05-14
; NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 135435
; LENGTH: 100
; TYPE: PRT
; ORGANISM: Oryza sativa
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT4530_37111C.1.pep
US-10-437-963-135435

Query Match 72.0%; Score 36; DB 4; Length 100;
Best Local Similarity 85.7%; Pred. No. 5e+02;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 2 SCCRST 8
Db 33 SCCRST 39

RESULT 41
US-10-425-115-310834
; Sequence 310834, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated with
; TITLE OF INVENTION: Plants
; FILE REFERENCE: 38-21(53222)B
; CURRENT APPLICATION NUMBER: US/10/425,115
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 310834
; LENGTH: 101
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:

OTHER INFORMATION: Clone ID: MFT4577_46536C.1.pcp
US-10-425-115-310834

Query Match 72.0%; Score 36; DB 4; Length 101;
Best Local Similarity 85.7%; Pred. No. 5e+02;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 2 SCCRSSR 8
DB 48 SCCRGSR 54

RESULT 42
US-10-425-115-310833
Sequence 310833, Application US/10425115
Publication No. US20040214272A1

GENERAL INFORMATION:
APPLICANT: La Rosa, Thomas J.
APPLICANT: Kovalic, David K.
APPLICANT: Zhou, Yihua
APPLICANT: Cao, Yongwei
TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
FILE REFERENCE: 38-21(53222)B
CURRENT APPLICATION NUMBER: US/10/425,115
CURRENT FILING DATE: 2003-04-28
NUMBER OF SEQ ID NOS: 369326
SEQ ID NO 310833
LENGTH: 131
TYPE: PRT
ORGANISM: Zea mays
FEATURE:
NAME/KEY: unsure
LOCATION: (1) -(131)
OTHER INFORMATION: unsure at all Xaa locations
FEATURE:
OTHER INFORMATION: Clone ID: MFT4577_46535C.1.pcp
US-10-425-115-310833

Query Match 72.0%; Score 36; DB 4; Length 131;
Best Local Similarity 85.7%; Pred. No. 6.2e+02;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 2 SCCRSSR 8
DB 48 SCCRGSR 54

RESULT 43
US-10-425-115-186241

Sequence 186241, Application US/10425115
Publication No. US20040214272A1
GENERAL INFORMATION:
APPLICANT: La Rosa, Thomas J.
APPLICANT: Kovalic, David K.
APPLICANT: Zhou, Yihua
APPLICANT: Cao, Yongwei
TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
FILE REFERENCE: 38-21(53222)B
CURRENT APPLICATION NUMBER: US/10/425,115
CURRENT FILING DATE: 2003-04-28
NUMBER OF SEQ ID NOS: 369326
SEQ ID NO 186241
LENGTH: 138
TYPE: PRT
ORGANISM: Zea mays
FEATURE:
OTHER INFORMATION: Clone ID: MFT4577_101444C.1.pcp
US-10-425-115-186241

Query Match 72.0%; Score 36; DB 4; Length 138;
Best Local Similarity 85.7%; Pred. No. 6.4e+02;

Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 2 SCCRSSR 8
DB 51 SCCRGSR 57

RESULT 44
US-10-408-765A-2274

Sequence 2274, Application US/10408765A
Publication No. US20040101874A1
GENERAL INFORMATION:
APPLICANT: Ghosh, Soumitra S.
APPLICANT: Rahy, Eoin D.
APPLICANT: Zhang, Bing
APPLICANT: Gibson, Bradford W.
APPLICANT: Taylor, Steven W.
APPLICANT: Glenn, Gary M.
APPLICANT: Martock, Dale E.
TITLE OF INVENTION: TARGETS FOR THERAPEUTIC INTERVENTION
FILE REFERENCE: 660088.465
CURRENT APPLICATION NUMBER: US/10/408,765A
CURRENT FILING DATE: 2003-04-04
NUMBER OF SEQ ID NOS: 3077
SOFTWARE: PASCSEQ for Windows Version 4.0
SEQ ID NO 2274
LENGTH: 148
TYPE: PRT
ORGANISM: Homo sapiens
US-10-408-765A-2274

Query Match 72.0%; Score 36; DB 4; Length 148;
Best Local Similarity 100.0%; Pred. No. 6.8e+02;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 MSCCRS 6
DB 12 MSCCRS 17

RESULT 45
US-10-425-115-207769

Sequence 207769, Application US/10425115
Publication No. US20040214272A1
GENERAL INFORMATION:
APPLICANT: La Rosa, Thomas J.
APPLICANT: Kovalic, David K.
APPLICANT: Zhou, Yihua
APPLICANT: Cao, Yongwei
TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
FILE REFERENCE: 38-21(53222)B
CURRENT APPLICATION NUMBER: US/10/425,115
CURRENT FILING DATE: 2003-04-28
NUMBER OF SEQ ID NOS: 369326
SEQ ID NO 207769
LENGTH: 212
TYPE: PRT
ORGANISM: Zea mays
FEATURE:
OTHER INFORMATION: Clone ID: MFT4577_121077C.1.pcp
US-10-425-115-207769

Query Match 72.0%; Score 36; DB 4; Length 212;
Best Local Similarity 75.0%; Pred. No. 9e+02;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

OY 2 SCCRSSRT 9
DB 163 SCCOSCR 170

```
RESULT 46
US-10-425-114-57284
; Sequence 57284, Application US/10425114
; Publication No. US20040034888A1
; GENERAL INFORMATION:
; APPLICANT: Liu, Jingdong
; APPLICANT: Zhou, Yihua
; APPLICANT: Kovalic, David K.
; APPLICANT: Screen, Steven E.
; APPLICANT: Tabaska, Jack E.
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53313)B
; CURRENT APPLICATION NUMBER: US/10/425,114
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 73128
; SEQ ID NO 57284
; LENGTH: 224
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: UC-ZMROB73054G08_FLI.pep
US-10-425-114-57284

Query Match          72.0%; Score 36; DB 4; Length 224;
Best Local Similarity 75.0%; Pred. No. 9.4e+02;
Matches 6; Conservative 1; Mismatches 0; Gaps 0;

QY      2 SCCRST 9
Db      175 SCCQSCRT 182

RESULT 47
US-10-424-599-270059
; Sequence 270059, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 270059
; LENGTH: 248
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_85883C.1.pep
US-10-424-599-270059

Query Match          72.0%; Score 36; DB 4; Length 248;
Best Local Similarity 75.0%; Pred. No. 1e+03;
Matches 6; Conservative 1; Mismatches 0; Gaps 0;

QY      2 SCCRST 9
Db      26 SCCRTST 33

RESULT 48
US-10-425-114-47308
; Sequence 47308, Application US/10425114
; Publication No. US20040034888A1
; GENERAL INFORMATION:
; APPLICANT: Liu, Jingdong
; APPLICANT: Zhou, Yihua
; APPLICANT: Kovalic, David K.
; APPLICANT: Screen, Steven E.
; APPLICANT: Tabaska, Jack E.
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53313)B
; CURRENT APPLICATION NUMBER: US/10/425,114
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 73128
; SEQ ID NO 47308
; LENGTH: 254
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; OTHER INFORMATION: Clone ID: 701142035_FLI.pep
US-10-425-114-47308

Query Match          72.0%; Score 36; DB 4; Length 254;
Best Local Similarity 75.0%; Pred. No. 1e+03;
Matches 6; Conservative 1; Mismatches 0; Gaps 0;

QY      2 SCCRST 9
Db      32 SCCRTST 39

RESULT 49
US-10-437-963-111831
; Sequence 111831, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; APPLICANT: Wu, Wei
; APPLICANT: Boukharov, Andrey A.
; APPLICANT: Barbazuk, Brad
; APPLICANT: Li, Ping
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53221)B
; CURRENT APPLICATION NUMBER: US/10/437,963
; CURRENT FILING DATE: 2003-05-14
; NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 111831
; LENGTH: 347
; TYPE: PRT
; ORGANISM: Oryza sativa
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT4530_15773C.1.pep
US-10-437-963-111831

Query Match          72.0%; Score 36; DB 4; Length 347;
Best Local Similarity 100.0%; Pred. No. 1.3e+03;
Matches 6; Conservative 0; Mismatches 0; Gaps 0;

QY      3 CCRSSR 8
Db      62 CCRSSR 67

RESULT 50
US-10-732-923-10536
; Sequence 10536, Application US/10732923
; Publication No. US20050108791A1
; GENERAL INFORMATION:
; APPLICANT: Edgerton, Michael D.
; APPLICANT: TRANSGENIC PLANTS WITH IMPROVED PHENOTYPES
; FILE REFERENCE: 38-15(52796)C
; CURRENT APPLICATION NUMBER: US/10/732,923
; CURRENT FILING DATE: 2003-12-10
```

```
APPLICANT: Kovalic, David K.
APPLICANT: Screen, Steven E.
APPLICANT: Tabaska, Jack E.
APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53313)B
; CURRENT APPLICATION NUMBER: US/10/425,114
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 73128
; SEQ ID NO 47308
; LENGTH: 254
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; OTHER INFORMATION: Clone ID: 701142035_FLI.pep
US-10-425-114-47308

Query Match          72.0%; Score 36; DB 4; Length 254;
Best Local Similarity 75.0%; Pred. No. 1e+03;
Matches 6; Conservative 1; Mismatches 0; Gaps 0;

QY      2 SCCRST 9
Db      32 SCCRTST 39

RESULT 49
US-10-437-963-111831
; Sequence 111831, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; APPLICANT: Wu, Wei
; APPLICANT: Boukharov, Andrey A.
; APPLICANT: Barbazuk, Brad
; APPLICANT: Li, Ping
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53221)B
; CURRENT APPLICATION NUMBER: US/10/437,963
; CURRENT FILING DATE: 2003-05-14
; NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 111831
; LENGTH: 347
; TYPE: PRT
; ORGANISM: Oryza sativa
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT4530_15773C.1.pep
US-10-437-963-111831

Query Match          72.0%; Score 36; DB 4; Length 347;
Best Local Similarity 100.0%; Pred. No. 1.3e+03;
Matches 6; Conservative 0; Mismatches 0; Gaps 0;

QY      3 CCRSSR 8
Db      62 CCRSSR 67

RESULT 50
US-10-732-923-10536
; Sequence 10536, Application US/10732923
; Publication No. US20050108791A1
; GENERAL INFORMATION:
; APPLICANT: Edgerton, Michael D.
; APPLICANT: TRANSGENIC PLANTS WITH IMPROVED PHENOTYPES
; FILE REFERENCE: 38-15(52796)C
; CURRENT APPLICATION NUMBER: US/10/732,923
; CURRENT FILING DATE: 2003-12-10
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; PRIOR APPLICATION NUMBER: 10/310,154
 ; PRIOR FILING DATE: 2002-12-04
 ; NUMBER OF SEQ ID NOS: 24149
 ; SEQ ID NO 10536
 ; LENGTH: 375
 ; TYPE: PRT
 ; ORGANISM: Oryza sativa (Japonica cultivar-group)
 US-10-732-923-10536

Query Match 72.0%; Score 36; DB 5; Length 375;
 Best Local Similarity 100.0%; Pred. No. 1.4e+03;
 Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 3 CCRSSR 8
 |||||
 Db 90 CCRSSR 95

Search completed: May 5, 2006, 08:17:13
 Job time : 58.8 secs

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OM protein - protein search, using sw model

Run on: May 5, 2006, 08:08:06 ; Search time 8.4 Seconds
(without alignments)
49.591 Million cell updates/sec

Title: US-08-170-344-37

Perfect score: 50
Sequence: 1 MSCRSSR 9

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 235405 seqs, 46284737 residues
Total number of hits satisfying chosen parameters: 235405

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 1000 summaries

Database:

Published Applications AA.New:*
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2: /SIDS5/ptodata/1/pubpaa/US06_NEW_PUB.pep1:*
3: /SIDS5/ptodata/1/pubpaa/US07_NEW_PUB.pep1:*
4: /SIDS5/ptodata/1/pubpaa/US08_NEW_PUB.pep1:*
5: /SIDS5/ptodata/1/pubpaa/US09_NEW_PUB.pep1:*
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9: /SIDS5/ptodata/1/pubpaa/US13_NEW_PUB.pep1:*
10: /SIDS5/ptodata/1/pubpaa/US14_NEW_PUB.pep1:*
11: /SIDS5/ptodata/1/pubpaa/US15_NEW_PUB.pep1:*
12: /SIDS5/ptodata/1/pubpaa/US60_NEW_PUB.pep1:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	50	100.0	10	9	US-10-530-061-514
2	50	100.0	151	9	US-10-530-253-13
3	50	100.0	158	11	US-11-206-138-3
4	50	100.0	248	9	US-10-530-253-1
5	50	100.0	248	9	US-10-530-253-3
6	50	100.0	248	9	US-10-530-253-5
7	50	100.0	248	9	US-10-530-253-7
8	50	100.0	248	9	US-10-530-253-9
9	50	100.0	248	9	US-10-530-253-11
10	50	100.0	256	11	US-11-192-923A-2
11	47	94.0	10	9	US-10-530-061-513
12	45	90.0	9	9	US-10-530-061-516
13	45	90.0	10	9	US-10-530-061-516
14	40	80.0	371	11	US-11-087-099-575
15	36	72.0	95	9	US-10-644-807-200
16	36	72.0	95	9	US-10-644-807-283
17	36	72.0	522	11	US-11-079-463-7574
18	36	72.0	1905	9	US-10-877-146-44
19	35	70.0	9	9	US-10-530-061-605
20	35	70.0	10	9	US-10-530-061-515
21	35	70.0	99	11	US-11-159-667-38

22	35	70.0	101	11	US-11-079-463-10120	Sequence 10120, A
23	35	70.0	128	11	US-11-096-568A-27	Sequence 27, App1
24	35	70.0	143	11	US-11-096-568A-26	Sequence 26, App1
25	34	68.0	156	11	US-11-096-568A-14075	Sequence 14075, A
26	34	68.0	190	11	US-11-096-568A-23996	Sequence 23996, A
27	33	66.0	141	9	US-10-982-145-72	Sequence 72, App1
28	33	66.0	141	9	US-10-982-145-73	Sequence 73, App1
29	33	66.0	144	11	US-11-096-568A-12659	Sequence 12659, A
30	33	66.0	184	11	US-11-094-591-5	Sequence 5, App1
31	33	66.0	184	11	US-11-264-096-347	Sequence 347, App
32	33	66.0	184	11	US-11-264-096-2250	Sequence 2250, App
33	33	66.0	206	11	US-11-087-099-2802	Sequence 2802, App
34	33	66.0	274	11	US-11-096-568A-20616	Sequence 20616, A
35	33	66.0	340	11	US-11-096-568A-20614	Sequence 20614, A
36	33	66.0	360	11	US-11-096-568A-20614	Sequence 20614, A
37	33	66.0	374	11	US-11-087-099-1572	Sequence 1572, App
38	32	64.0	9	9	US-10-895-064-42	Sequence 42, App1
39	32	64.0	9	11	US-11-129-741-42	Sequence 42, App1
40	32	64.0	9	11	US-11-129-741-2978	Sequence 2978, App
41	32	64.0	10	9	US-10-530-061-511	Sequence 511, App
42	32	64.0	141	11	US-11-096-568A-13756	Sequence 13756, A
43	32	64.0	177	11	US-11-096-568A-21472	Sequence 21472, A
44	32	64.0	189	11	US-11-072-512-3254	Sequence 3254, App
45	32	64.0	204	11	US-11-096-568A-26773	Sequence 26773, A
46	32	64.0	251	11	US-11-096-568A-1257	Sequence 1257, App
47	32	64.0	251	11	US-11-096-568A-1259	Sequence 1259, App
48	32	64.0	280	11	US-11-096-568A-1256	Sequence 1256, App
49	32	64.0	346	9	US-10-131-826A-432	Sequence 432, App
50	32	64.0	346	9	US-10-967-457-77	Sequence 77, App1
51	32	64.0	346	9	US-10-973-115B-432	Sequence 432, App
52	32	64.0	346	9	US-10-137-873A-432	Sequence 432, App
53	32	64.0	346	9	US-10-152-370-432	Sequence 432, App
54	32	64.0	346	11	US-11-290-153-432	Sequence 2068, App
55	32	64.0	346	11	US-11-264-096-2068	Sequence 18001, A
56	32	64.0	353	11	US-11-188-298-18001	Sequence 18001, A
57	32	64.0	414	11	US-11-096-568A-23755	Sequence 23755, A
58	32	64.0	1124	11	US-11-087-099-1938	Sequence 1938, App
59	32	64.0	1124	11	US-11-087-099-2565	Sequence 2565, App
60	31	62.0	58	11	US-11-234-786-347	Sequence 3208, App
61	31	62.0	58	11	US-11-004-339-3208	Sequence 463, App
62	31	62.0	58	11	US-11-264-096-463	Sequence 463, App
63	31	62.0	58	11	US-11-264-096-463	Sequence 464, App
64	31	62.0	58	11	US-11-264-096-464	Sequence 776, App
65	31	62.0	103	11	US-11-096-568A-776	Sequence 367, App
66	31	62.0	103	11	US-11-004-339-367	Sequence 698, App
67	31	62.0	103	11	US-11-004-339-698	Sequence 3728, App
68	31	62.0	103	11	US-11-004-339-3728	Sequence 3186, App
69	31	62.0	104	11	US-11-096-568A-23117	Sequence 14132, A
70	31	62.0	132	11	US-11-004-339-3186	Sequence 42, App1
71	31	62.0	139	11	US-11-096-568A-14132	Sequence 9364, App
72	31	62.0	145	11	US-11-152-601-42	Sequence 9366, App
73	31	62.0	145	11	US-11-096-568A-9364	Sequence 17131, A
74	31	62.0	192	11	US-11-096-568A-9364	Sequence 1298, App
75	31	62.0	198	11	US-11-096-568A-17131	Sequence 9363, App
76	31	62.0	202	9	US-10-821-234-1298	Sequence 217, App
77	31	62.0	212	11	US-11-096-568A-9363	Sequence 210, App
78	31	62.0	216	11	US-11-186-284-217	Sequence 1704, App
79	31	62.0	216	11	US-11-169-041-210	Sequence 21438, A
80	31	62.0	216	11	US-11-051-720-1704	Sequence 21437, A
81	31	62.0	228	11	US-11-096-568A-21438	Sequence 1871, App
82	31	62.0	240	11	US-11-096-568A-21437	Sequence 1871, App
83	31	62.0	241	11	US-11-096-568A-21436	Sequence 17199, A
84	31	62.0	277	11	US-11-096-568A-1871	Sequence 6447, App
85	31	62.0	281	11	US-11-087-099-6447	Sequence 1493, App
86	31	62.0	281	11	US-11-087-099-6447	Sequence 7705, App
87	31	62.0	281	11	US-11-051-720-1493	Sequence 11693, A
88	31	62.0	314	11	US-11-096-568A-17705	Sequence 7704, App
89	31	62.0	337	11	US-11-188-298-11693	Sequence 5031, App
90	31	62.0	338	11	US-11-096-568A-7704	Sequence 852, App
91	31	62.0	340	11	US-11-087-099-5031	Sequence 7703, App
92	31	62.0	370	11	US-11-264-096-852	
93	31	62.0	371	11	US-11-096-568A-7703	
94	31	62.0	376	11	US-11-096-568A-7703	

95	31	62.0	378	11	US-11-096-568A-7212	Sequence 7212, Ap	168	31	62.0	1181	11	US-11-096-568A-27847	Sequence 27847, A
96	31	62.0	378	11	US-11-096-568A-18777	Sequence 18777, A	159	31	62.0	1184	11	US-11-096-568A-29280	Sequence 29280, A
97	31	62.0	380	11	US-11-096-568A-22474	Sequence 22474, A	170	31	62.0	1187	11	US-11-043-889-46	Sequence 46, App
98	31	62.0	397	11	US-11-087-099-9323	Sequence 9323, Ap	171	31	62.0	1189	11	US-11-096-568A-27846	Sequence 27846, A
99	31	62.0	398	11	US-11-188-298-21995	Sequence 21995, A	172	31	62.0	1515	11	US-11-124-367A-402	Sequence 402, App
100	31	62.0	419	11	US-11-188-298-10420	Sequence 10420, A	173	31	62.0	1516	11	US-11-124-367A-401	Sequence 401, App
101	31	62.0	421	11	US-11-188-298-10978	Sequence 10978, A	174	31	62.0	1518	11	US-11-124-367A-406	Sequence 406, App
102	31	62.0	422	11	US-11-087-099-1523	Sequence 1523, Ap	175	31	62.0	1532	11	US-11-124-367A-403	Sequence 403, App
103	31	62.0	422	11	US-11-087-099-1957	Sequence 1957, Ap	176	31	62.0	1532	11	US-11-124-367A-404	Sequence 404, App
104	31	62.0	423	11	US-11-096-568A-7211	Sequence 7211, Ap	177	31	62.0	1532	11	US-11-124-367A-405	Sequence 405, App
105	31	62.0	423	11	US-11-096-568A-18776	Sequence 18776, A	178	31	62.0	1535	11	US-11-124-367A-407	Sequence 407, App
106	31	62.0	431	11	US-11-096-568A-22537	Sequence 22537, A	179	31	62.0	1532	11	US-11-124-367A-408	Sequence 408, App
107	31	62.0	431	11	US-11-188-298-2824	Sequence 2824, Ap	180	31	62.0	2764	9	US-10-995-561-691	Sequence 691, App
108	31	62.0	447	11	US-11-188-298-6626	Sequence 6626, Ap	181	31	62.0	2813	9	US-10-995-561-688	Sequence 688, App
109	31	62.0	473	11	US-11-087-099-9537	Sequence 9537, Ap	182	31	62.0	2919	9	US-10-821-234-1133	Sequence 1133, App
110	31	62.0	485	11	US-11-188-298-22078	Sequence 22078, A	183	31	62.0	5199	11	US-11-108-172-1068	Sequence 1068, App
111	31	62.0	497	11	US-11-188-298-4942	Sequence 4942, Ap	184	30.5	496	11	US-11-096-568A-22028	Sequence 22028, A	
112	31	62.0	511	11	US-11-096-568A-22536	Sequence 22536, A	185	30.5	499	11	US-11-096-568A-22027	Sequence 22027, A	
113	31	62.0	517	8	US-10-505-928-776	Sequence 776, App	186	30	60.0	13	9	US-10-895-064-1041	Sequence 1041, App
114	31	62.0	517	9	US-10-878-556A-223	Sequence 23, App	187	30	60.0	13	11	US-11-129-741-1041	Sequence 1041, App
115	31	62.0	517	9	US-10-784-004-718	Sequence 718, App	188	30	60.0	13	11	US-11-129-741-1037	Sequence 1037, App
116	31	62.0	519	11	US-11-188-298-91373	Sequence 13737, A	189	30	60.0	67	11	US-11-004-399-2378	Sequence 2378, App
117	31	62.0	534	11	US-11-167-856-24	Sequence 24, App	190	30	60.0	93	11	US-11-201-519-35	Sequence 35, App
118	31	62.0	534	11	US-11-188-298-7695	Sequence 7695, App	191	30	60.0	123	11	US-11-096-568A-1061	Sequence 1061, App
119	31	62.0	534	11	US-11-188-298-10493	Sequence 10493, A	192	30	60.0	123	11	US-11-096-568A-26748	Sequence 26748, App
120	31	62.0	536	11	US-11-096-568A-7210	Sequence 7210, App	193	30	60.0	126	11	US-11-113-424-184	Sequence 184, App
121	31	62.0	536	11	US-11-188-298-5027	Sequence 5027, App	194	30	60.0	150	11	US-11-096-568A-1060	Sequence 1060, App
122	31	62.0	538	11	US-11-167-856-20	Sequence 20, App	195	30	60.0	150	11	US-11-096-568A-26747	Sequence 26747, A
123	31	62.0	538	11	US-11-188-298-14607	Sequence 14607, A	196	30	60.0	195	11	US-11-072-512-3662	Sequence 3662, App
124	31	62.0	539	11	US-11-188-298-5609	Sequence 5609, App	197	30	60.0	209	7	US-09-978-360A-453	Sequence 453, App
125	31	62.0	539	11	US-11-188-298-7608	Sequence 7608, App	198	30	60.0	253	9	US-10-501-035-248	Sequence 248, App
126	31	62.0	540	11	US-11-188-298-8198	Sequence 8198, App	199	30	60.0	275	9	US-10-972-587-22	Sequence 22, App
127	31	62.0	540	11	US-11-188-298-8198	Sequence 8198, App	200	30	60.0	276	9	US-10-972-587-20	Sequence 20, App
128	31	62.0	542	11	US-11-188-298-11303	Sequence 11303, A	201	30	60.0	276	9	US-10-972-587-20	Sequence 20, App
129	31	62.0	542	11	US-11-188-298-21353	Sequence 21353, A	202	30	60.0	300	11	US-11-058-924-7	Sequence 7, App
130	31	62.0	542	11	US-11-188-298-21353	Sequence 21353, A	203	30	60.0	318	11	US-11-096-568A-16448	Sequence 16448, App
131	31	62.0	546	11	US-11-188-298-15457	Sequence 15457, A	204	30	60.0	319	11	US-11-087-099-677	Sequence 677, App
132	31	62.0	547	11	US-11-188-298-20802	Sequence 20802, A	205	30	60.0	320	11	US-11-096-568A-26622	Sequence 26622, App
133	31	62.0	549	11	US-11-096-568A-22535	Sequence 22535, A	206	30	60.0	322	11	US-11-087-099-5170	Sequence 5170, App
134	31	62.0	549	11	US-11-188-298-1889	Sequence 1889, App	207	30	60.0	332	11	US-11-096-568A-23521	Sequence 23521, App
135	31	62.0	549	11	US-11-188-298-7297	Sequence 7297, App	208	30	60.0	346	11	US-11-096-568A-16447	Sequence 16447, A
136	31	62.0	549	11	US-11-188-298-8559	Sequence 8559, App	209	30	60.0	353	11	US-11-096-568A-16446	Sequence 16446, A
137	31	62.0	549	11	US-11-188-298-11719	Sequence 11719, A	210	30	60.0	361	11	US-11-096-568A-23620	Sequence 23620, A
138	31	62.0	549	11	US-11-188-298-13230	Sequence 13230, A	211	30	60.0	384	11	US-11-139-041-326	Sequence 326, App
139	31	62.0	549	11	US-11-188-298-13954	Sequence 13954, A	212	30	60.0	384	11	US-11-139-041-332	Sequence 332, App
140	31	62.0	549	11	US-11-188-298-17058	Sequence 17058, A	213	30	60.0	384	11	US-11-139-041-333	Sequence 333, App
141	31	62.0	549	11	US-11-188-298-20321	Sequence 20321, A	214	30	60.0	413	11	US-11-072-512-3877	Sequence 3877, App
142	31	62.0	549	11	US-11-188-298-22400	Sequence 22400, A	215	30	60.0	431	11	US-11-096-568A-20771	Sequence 20771, App
143	31	62.0	550	11	US-11-096-568A-18775	Sequence 18775, A	216	30	60.0	435	11	US-11-087-099-11623	Sequence 11623, A
144	31	62.0	550	11	US-11-188-298-1128	Sequence 1128, App	217	30	60.0	452	11	US-11-096-568A-28121	Sequence 28121, App
145	31	62.0	550	11	US-11-188-298-4393	Sequence 4393, App	218	30	60.0	457	9	US-10-063-703-12	Sequence 12, App
146	31	62.0	550	11	US-11-188-298-7622	Sequence 7622, App	219	30	60.0	457	9	US-10-194-487-48	Sequence 48, App
147	31	62.0	551	11	US-11-188-298-5035	Sequence 5035, App	220	30	60.0	457	9	US-10-195-883-48	Sequence 48, App
148	31	62.0	553	11	US-11-234-786-113	Sequence 113, App	221	30	60.0	457	9	US-10-195-888-48	Sequence 48, App
149	31	62.0	553	11	US-11-188-298-2791	Sequence 2791, App	222	30	60.0	457	9	US-10-195-888-48	Sequence 48, App
150	31	62.0	553	11	US-11-188-298-16495	Sequence 16495, A	223	30	60.0	457	9	US-10-216-161A-19	Sequence 19, App
151	31	62.0	554	11	US-11-188-298-12454	Sequence 12454, A	224	30	60.0	457	11	US-11-102-240-12	Sequence 12, App
152	31	62.0	554	11	US-11-188-298-19874	Sequence 19874, A	225	30	60.0	457	11	US-11-103-195-12	Sequence 12, App
153	31	62.0	556	11	US-11-188-298-5138	Sequence 5138, App	226	30	60.0	520	11	US-11-096-568A-28120	Sequence 28120, App
154	31	62.0	557	11	US-11-188-298-12634	Sequence 12634, A	227	30	60.0	552	11	US-11-096-568A-29840	Sequence 29840, App
155	31	62.0	665	11	US-11-051-720-1497	Sequence 1497, App	228	30	60.0	579	11	US-11-096-568A-29839	Sequence 29839, App
156	31	62.0	751	11	US-11-051-720-1499	Sequence 1499, App	229	30	60.0	700	11	US-11-096-568A-29838	Sequence 29838, App
157	31	62.0	782	11	US-11-051-720-1496	Sequence 1496, App	230	30	60.0	1188	11	US-11-143-984A-27	Sequence 27, App
158	31	62.0	784	11	US-11-051-720-1498	Sequence 1498, App	231	30	60.0	1190	11	US-11-096-568A-28022	Sequence 28022, App
159	31	62.0	812	11	US-11-188-298-1905	Sequence 1905, App	232	30	60.0	1355	11	US-11-096-568A-28021	Sequence 28021, App
160	31	62.0	830	9	US-10-055-877-32	Sequence 32, App	233	30	60.0	1366	11	US-11-096-568A-28020	Sequence 28020, App
161	31	62.0	868	11	US-11-051-720-1494	Sequence 1494, App	234	30	60.0	1366	11	US-11-004-399-1977	Sequence 1977, App
162	31	62.0	901	11	US-11-051-720-1495	Sequence 1495, App	235	29	58.0	10	9	US-10-530-061-512	Sequence 512, App
163	31	62.0	989	11	US-11-096-568A-29282	Sequence 29282, A	236	29	58.0	29	11	US-11-144-947-189	Sequence 589, App
164	31	62.0	1057	11	US-11-096-568A-30809	Sequence 30809, A	237	29	58.0	34	11	US-11-121-301-16	Sequence 16, App
165	31	62.0	1063	11	US-11-096-568A-29281	Sequence 29281, A	238	29	58.0	38	9	US-10-971-555-20	Sequence 20, App
166	31	62.0	1072	11	US-116								

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242	29	58.0	105	9	US-10-793-626-1098	Sequence 1028, Ap	315	28	56.0	38	9	US-10-971-559-36	Sequence 36, App1
243	29	58.0	109	9	US-10-530-253-31	Sequence 31, App1	316	28	56.0	38	9	US-10-971-559-37	Sequence 37, App1
244	29	58.0	109	11	US-11-096-568A-11447	Sequence 11447, A	317	28	56.0	38	11	US-11-068-783-76	Sequence 76, App1
245	29	58.0	124	9	US-10-475-075-180	Sequence 180, App	318	28	56.0	40	11	US-11-068-783-77	Sequence 77, App1
246	29	58.0	124	9	US-10-475-075-181	Sequence 181, App	319	28	56.0	48	11	US-11-255-427-2	Sequence 2, App1
247	29	58.0	124	9	US-10-475-075-465	Sequence 465, App	320	28	56.0	48	11	US-11-255-427-11	Sequence 11, App1
248	29	58.0	124	9	US-10-475-075-466	Sequence 466, App	321	28	56.0	69	9	US-10-784-004-374	Sequence 374, App
249	29	58.0	161	11	US-11-096-568A-11235	Sequence 11235, A	322	28	56.0	76	11	US-11-226-657-68	Sequence 68, App1
250	29	58.0	189	11	US-11-096-568A-13880	Sequence 13880, A	323	28	56.0	77	9	US-10-821-234-1132	Sequence 1132, Ap
251	29	58.0	203	9	US-10-506-454-801	Sequence 801, App	324	28	56.0	83	11	US-11-004-399-3297	Sequence 3297, Ap
252	29	58.0	216	11	US-11-188-298-5091	Sequence 5091, Ap	325	28	56.0	85	9	US-10-467-657-3010	Sequence 3010, App
253	29	58.0	217	11	US-11-188-298-7160	Sequence 7160, Ap	326	28	56.0	89	7	US-09-978-360A-724	Sequence 724, App
254	29	58.0	217	11	US-11-188-298-16774	Sequence 16774, A	327	28	56.0	111	11	US-11-221-281-43	Sequence 43, App1
255	29	58.0	217	11	US-11-188-298-16922	Sequence 16922, A	328	28	56.0	112	11	US-11-096-568A-17179	Sequence 17179, A
256	29	58.0	218	11	US-11-096-568A-8430	Sequence 8430, Ap	329	28	56.0	113	9	US-10-932-334-60	Sequence 60, App1
257	29	58.0	219	11	US-11-096-568A-8429	Sequence 8429, Ap	330	28	56.0	113	9	US-10-932-334-63	Sequence 63, App1
258	29	58.0	219	11	US-11-096-568A-8429	Sequence 8429, Ap	331	28	56.0	113	9	US-10-784-004-1237	Sequence 1237, Ap
259	29	58.0	220	11	US-11-096-568A-13879	Sequence 13879, A	332	28	56.0	113	9	US-10-784-004-1238	Sequence 1238, Ap
260	29	58.0	222	11	US-11-087-099-8091	Sequence 8091, Ap	333	28	56.0	118	9	US-10-982-145-121	Sequence 121, App
261	29	58.0	223	11	US-11-096-568A-25983	Sequence 25983, A	334	28	56.0	127	11	US-11-096-568A-22947	Sequence 22947, A
262	29	58.0	229	11	US-11-096-568A-11753	Sequence 11753, A	335	28	56.0	129	11	US-11-102-502-2	Sequence 2, App1
263	29	58.0	244	11	US-11-096-568A-6842	Sequence 6842, Ap	336	28	56.0	131	11	US-11-084-591-3	Sequence 3, App1
264	29	58.0	246	11	US-11-096-568A-25684	Sequence 25684, A	337	28	56.0	135	11	US-11-175-690-342	Sequence 342, App
265	29	58.0	256	11	US-11-072-512-3255	Sequence 3255, Ap	338	28	56.0	135	11	US-11-175-690-343	Sequence 343, App
266	29	58.0	257	11	US-11-188-298-17959	Sequence 17959, A	339	28	56.0	135	11	US-11-072-512-2606	Sequence 2606, Ap
267	29	58.0	258	11	US-11-096-568A-6841	Sequence 6841, Ap	340	28	56.0	136	11	US-11-072-512-2197	Sequence 2197, Ap
268	29	58.0	261	11	US-11-045-004-833	Sequence 833, App	341	28	56.0	139	11	US-11-096-568A-41119	Sequence 4119, Ap
269	29	58.0	301	11	US-11-096-568A-25685	Sequence 25685, A	342	28	56.0	140	9	US-10-982-145-65	Sequence 65, App1
270	29	58.0	301	11	US-11-147-047-37	Sequence 37, App1	343	28	56.0	140	9	US-10-982-145-66	Sequence 66, App1
271	29	58.0	305	11	US-11-096-568A-11752	Sequence 11752, A	344	28	56.0	140	9	US-10-982-145-69	Sequence 69, App1
272	29	58.0	307	11	US-11-040-595-19	Sequence 19, App1	345	28	56.0	141	9	US-10-982-145-67	Sequence 67, App1
273	29	58.0	312	11	US-11-096-568A-12515	Sequence 12515, A	346	28	56.0	141	9	US-10-982-145-68	Sequence 68, App1
274	29	58.0	319	11	US-11-096-568A-24535	Sequence 24535, A	347	28	56.0	141	9	US-10-982-145-70	Sequence 70, App1
275	29	58.0	320	11	US-11-096-568A-18072	Sequence 18072, A	348	28	56.0	141	9	US-10-982-145-71	Sequence 71, App1
276	29	58.0	334	11	US-11-096-568A-25684	Sequence 25684, A	349	28	56.0	141	9	US-10-982-145-123	Sequence 123, App
277	29	58.0	335	11	US-11-188-298-21671	Sequence 21671, A	350	28	56.0	141	9	US-10-982-145-125	Sequence 125, App
278	29	58.0	350	11	US-11-024-959-379	Sequence 379, App	351	28	56.0	145	11	US-11-152-601-43	Sequence 43, App1
279	29	58.0	358	11	US-11-188-298-9968	Sequence 9968, A	352	28	56.0	150	11	US-11-267-310-9	Sequence 9, App1
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281	29	58.0	382	11	US-11-124-368A-173	Sequence 173, App	354	28	56.0	153	11	US-11-267-310-11	Sequence 11, App1
282	29	58.0	382	11	US-11-124-368A-174	Sequence 174, App	355	28	56.0	153	11	US-11-267-310-11	Sequence 11, App1
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287	29	58.0	439	11	US-11-087-099-3928	Sequence 3928, Ap	360	28	56.0	181	11	US-11-175-690-345	Sequence 345, App
288	29	58.0	439	11	US-11-087-099-6119	Sequence 6119, Ap	361	28	56.0	181	11	US-11-175-690-346	Sequence 346, App
289	29	58.0	439	11	US-11-087-099-8125	Sequence 8125, Ap	362	28	56.0	181	11	US-11-175-690-347	Sequence 347, App
290	29	58.0	439	11	US-11-087-099-9275	Sequence 9275, Ap	363	28	56.0	181	11	US-11-175-690-348	Sequence 348, App
291	29	58.0	439	11	US-11-087-099-11138	Sequence 11138, A	364	28	56.0	181	11	US-11-175-690-349	Sequence 349, App
292	29	58.0	442	11	US-11-096-568A-19628	Sequence 19628, A	365	28	56.0	183	11	US-11-264-096-2225	Sequence 2225, Ap
293	29	58.0	517	11	US-11-188-298-2805	Sequence 2805, A	366	28	56.0	185	9	US-10-821-234-1130	Sequence 1130, App
294	29	58.0	522	11	US-11-188-298-13552	Sequence 13552, A	367	28	56.0	205	11	US-11-128-440-9	Sequence 9, App1
295	29	58.0	522	11	US-11-188-298-13592	Sequence 13592, A	368	28	56.0	216	11	US-11-096-568A-26562	Sequence 26562, A
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297	29	58.0	638	11	US-11-188-298-11202	Sequence 11202, A	370	28	56.0	236	9	US-10-467-657-676	Sequence 676, App
298	29	58.0	656	9	US-10-995-561-871	Sequence 871, App	371	28	56.0	236	11	US-11-096-568A-4117	Sequence 4117, App
299	29	58.0	679	9	US-10-995-561-872	Sequence 872, App	372	28	56.0	247	11	US-11-096-568A-573	Sequence 573, App
300	29	58.0	721	11	US-11-022-478-12	Sequence 12, App1	373	28	56.0	251	11	US-11-096-568A-32939	Sequence 32939, A
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308	28	56.0	16	9	US-10-670-009-12	Sequence 12, App1	381	28	56.0	281	11	US-11-172-740-2000	Sequence 2000, Ap
309	28	56.0	16	9	US-10-670-009-13	Sequence 13, App1	382	28	56.0	290	11	US-11-096-568A-3606	Sequence 3606, Ap
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311	28	56.0	27	11	US-11-052-168A-20	Sequence 20, App1	384	28	56.0	316	11	US-11-152-811-4	Sequence 4, App1
312	28	56.0	27	11	US-11-052-168A-25	Sequence 25, App1	385	28	56.0	317	11	US-11-188-298-16366	Sequence 16366, A
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388	28	56.0	330	11	US-11-188-298-6553	Sequence 6553, Ap	461	28	56.0	591	11	US-11-018-868-136	Sequence 136, Ap
389	28	56.0	332	11	US-11-105-268-59	Sequence 59, Appl	462	28	56.0	592	11	US-11-096-568A-9891	Sequence 9891, Ap
390	28	56.0	342	11	US-11-087-099-3637	Sequence 3637, Ap	463	28	56.0	595	9	US-10-745-586-61	Sequence 61, Appl
391	28	56.0	345	11	US-11-096-568A-26560	Sequence 26560, A	464	28	56.0	615	11	US-11-096-568A-24580	Sequence 24580, A
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393	28	56.0	348	11	US-11-024-959-479	Sequence 479, A	466	28	56.0	652	11	US-11-096-568A-24579	Sequence 24579, A
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395	28	56.0	352	9	US-10-219-061-216	Sequence 216, App	468	28	56.0	664	11	US-11-096-568A-24578	Sequence 24578, A
396	28	56.0	352	9	US-10-219-062-216	Sequence 216, App	469	28	56.0	678	11	US-11-098-686-10192	Sequence 10192, A
397	28	56.0	352	9	US-10-219-064-216	Sequence 216, App	470	28	56.0	696	11	US-11-188-298-20527	Sequence 20527, A
398	28	56.0	352	9	US-10-233-134-216	Sequence 216, App	471	28	56.0	744	11	US-11-175-690-255	Sequence 255, App
399	28	56.0	354	11	US-11-188-298-8976	Sequence 8976, Ap	472	28	56.0	744	11	US-11-175-690-256	Sequence 256, App
400	28	56.0	355	11	US-11-188-298-12430	Sequence 12430, A	473	28	56.0	790	11	US-11-175-690-257	Sequence 257, App
401	28	56.0	356	11	US-11-188-298-2966	Sequence 2966, Ap	474	28	56.0	790	11	US-11-175-690-258	Sequence 258, App
402	28	56.0	356	11	US-11-188-298-9048	Sequence 9048, Ap	475	28	56.0	790	11	US-11-175-690-259	Sequence 259, App
403	28	56.0	356	11	US-11-188-298-11364	Sequence 11364, Ap	476	28	56.0	790	11	US-11-175-690-260	Sequence 260, App
404	28	56.0	357	11	US-11-188-298-7624	Sequence 7624, Ap	477	28	56.0	790	11	US-11-175-690-261	Sequence 261, App
405	28	56.0	360	11	US-11-188-298-10417	Sequence 10417, A	478	28	56.0	902	11	US-11-188-298-12248	Sequence 12248, A
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408	28	56.0	361	11	US-11-188-298-6595	Sequence 6595, Ap	481	28	56.0	928	11	US-11-129-741-2925	Sequence 2925, Ap
409	28	56.0	361	11	US-11-188-298-13781	Sequence 13781, A	482	28	56.0	928	11	US-11-129-741-2927	Sequence 2927, Ap
410	28	56.0	361	11	US-11-188-298-14795	Sequence 14795, A	483	28	56.0	928	11	US-11-129-741-2929	Sequence 2929, Ap
411	28	56.0	363	11	US-11-096-568A-23015	Sequence 23015, A	484	28	56.0	928	11	US-11-129-741-2931	Sequence 2931, Ap
412	28	56.0	365	8	US-10-505-928-148	Sequence 148, App	485	28	56.0	928	11	US-11-129-741-2933	Sequence 2933, Ap
413	28	56.0	365	11	US-11-102-978-9	Sequence 9, Appl	486	28	56.0	928	11	US-11-129-741-2935	Sequence 2935, Ap
414	28	56.0	365	11	US-11-080-991-78	Sequence 78, Appl	487	28	56.0	928	11	US-11-129-741-2935	Sequence 2935, Ap
415	28	56.0	368	11	US-11-087-099-5160	Sequence 5160, Ap	488	28	56.0	982	9	US-10-532-482-55	Sequence 55, Appl
416	28	56.0	368	11	US-11-087-099-5447	Sequence 5447, Ap	489	28	56.0	985	9	US-10-532-482-51	Sequence 51, Appl
417	28	56.0	368	11	US-11-188-298-13415	Sequence 13415, A	490	28	56.0	993	9	US-10-532-482-58	Sequence 58, Appl
418	28	56.0	369	11	US-11-096-568A-23014	Sequence 23014, A	491	28	56.0	997	9	US-10-532-482-54	Sequence 54, Appl
419	28	56.0	378	11	US-11-188-298-16585	Sequence 16585, A	492	28	56.0	1004	9	US-10-532-482-59	Sequence 59, Appl
420	28	56.0	380	11	US-11-210-139-17	Sequence 17, Appl	493	28	56.0	1005	9	US-10-532-482-54	Sequence 54, Appl
421	28	56.0	384	11	US-11-096-568A-22402	Sequence 22402, A	494	28	56.0	1006	9	US-10-532-482-32	Sequence 32, Appl
422	28	56.0	390	11	US-11-096-568A-22401	Sequence 22401, A	495	28	56.0	1013	9	US-10-532-482-19	Sequence 19, Appl
423	28	56.0	406	11	US-11-096-568A-22306	Sequence 22306, A	496	28	56.0	1016	9	US-10-532-482-50	Sequence 50, Appl
424	28	56.0	407	9	US-10-821-234-1389	Sequence 1389, Ap	497	28	56.0	1016	9	US-10-532-482-42	Sequence 42, Appl
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431	28	56.0	464	9	US-10-689-742-164	Sequence 164, App	504	28	56.0	1194	11	US-11-000-463-249	Sequence 249, App
432	28	56.0	465	11	US-11-096-568A-9893	Sequence 9893, Ap	505	28	56.0	1508	11	US-11-043-889-47	Sequence 47, Appl
433	28	56.0	467	11	US-11-087-099-4884	Sequence 4884, Ap	506	28	56.0	1588	11	US-11-043-889-37	Sequence 37, Appl
434	28	56.0	474	11	US-11-072-512-3289	Sequence 3289, Ap	507	28	56.0	1697	11	US-11-019-711-68	Sequence 68, Appl
435	28	56.0	474	11	US-11-079-463-8686	Sequence 8686, Ap	508	28	56.0	1723	11	US-11-019-711-18	Sequence 18, Appl
436	28	56.0	487	9	US-10-745-586-11	Sequence 11, Appl	509	28	56.0	1745	11	US-11-264-096-2222	Sequence 2222, Ap
437	28	56.0	487	9	US-11-096-568A-9892	Sequence 9892, Ap	510	28	56.0	2723	9	US-10-895-064-388	Sequence 388, App
438	28	56.0	499	11	US-11-072-512-2033	Sequence 2033, Ap	511	28	56.0	2723	11	US-11-129-741-388	Sequence 388, App
439	28	56.0	516	11	US-10-194-487-436	Sequence 436, App	512	28	56.0	2723	11	US-11-139-041-318	Sequence 318, Ap
440	28	56.0	525	9	US-10-195-883-436	Sequence 436, App	513	28	56.0	8746	11	US-11-098-686-10232	Sequence 10232, A
441	28	56.0	525	9	US-10-195-888-436	Sequence 436, App	514	27	54.0	166	7	US-11-096-568A-25629	Sequence 25629, A
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455	28	56.0	545	9	US-10-718-264-2	Sequence 2, Appl	528	27	54.0	166	7	US-11-096-568A-25629	Sequence 25629, A
456	28	56.0	545	11	US-11-176-667-2	Sequence 2, Appl	529	27	54.0	166	7	US-11-096-568A-25629	Sequence 25629, A
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538	27	54.0	45	11	US-11-264-096-2125	Sequence 2125, Ap	611	27	54.0	199	9	US-10-194-487-588	Sequence 588, App
539	27	54.0	55	11	US-11-207-078-311	Sequence 311, App	612	27	54.0	199	9	US-10-195-883-588	Sequence 588, App
540	27	54.0	58	9	US-10-467-657-3262	Sequence 3262, App	613	27	54.0	199	9	US-10-195-888-588	Sequence 588, App
541	27	54.0	58	9	US-10-467-657-6856	Sequence 6856, Ap	614	27	54.0	199	9	US-10-195-889-588	Sequence 588, App
542	27	54.0	69	11	US-11-096-568A-20238	Sequence 20238, A	615	27	54.0	199	11	US-11-019-711-102	Sequence 102, App
543	27	54.0	75	11	US-11-096-568A-426	Sequence 426, App	616	27	54.0	201	11	US-11-096-568A-4601	Sequence 4601, App
544	27	54.0	75	11	US-11-079-463-8961	Sequence 8961, Ap	617	27	54.0	202	11	US-11-000-263-267	Sequence 267, App
545	27	54.0	77	11	US-11-096-568A-4366	Sequence 4366, App	618	27	54.0	207	8	US-10-322-836-10	Sequence 10, App1
546	27	54.0	79	11	US-11-096-568A-20237	Sequence 20237, A	619	27	54.0	211	11	US-11-128-440-8	Sequence 8, App1
547	27	54.0	81	11	US-11-096-568A-9810	Sequence 9810, Ap	620	27	54.0	212	11	US-11-096-568A-19889	Sequence 19889, A
548	27	54.0	81	11	US-11-096-568A-13305	Sequence 13305, A	621	27	54.0	218	11	US-11-072-512-2070	Sequence 2070, App
549	27	54.0	82	11	US-11-096-568A-31841	Sequence 31841, A	622	27	54.0	222	11	US-11-096-568A-24047	Sequence 24047, A
550	27	54.0	82	11	US-11-096-568A-5084	Sequence 5084, Ap	623	27	54.0	224	11	US-11-134-241-23	Sequence 23, App1
551	27	54.0	87	11	US-11-096-568A-14448	Sequence 14448, A	624	27	54.0	224	11	US-11-087-099-7053	Sequence 7053, Ap
552	27	54.0	88	11	US-11-018-868-8	Sequence 8, App1	625	27	54.0	231	11	US-11-045-004-1824	Sequence 1824, Ap
553	27	54.0	89	11	US-11-096-568A-425	Sequence 425, App	626	27	54.0	238	11	US-11-096-568A-4156	Sequence 4156, Ap
554	27	54.0	89	11	US-11-096-568A-427	Sequence 427, App	627	27	54.0	242	11	US-11-096-568A-26110	Sequence 26110, A
555	27	54.0	90	11	US-11-096-568A-29435	Sequence 29435, A	628	27	54.0	243	11	US-11-096-568A-24046	Sequence 24046, A
556	27	54.0	99	9	US-10-530-253-30	Sequence 30, App1	629	27	54.0	247	9	US-10-793-626-1284	Sequence 1284, Ap
557	27	54.0	101	11	US-11-096-568A-9809	Sequence 9809, Ap	630	27	54.0	248	11	US-11-156-516-36	Sequence 36, App1
558	27	54.0	103	9	US-10-467-657-3359	Sequence 3359, Ap	631	27	54.0	250	10	US-11-301-554-1677	Sequence 1677, Ap
559	27	54.0	105	9	US-10-467-657-220	Sequence 220, App	632	27	54.0	250	10	US-11-301-554-1874	Sequence 1874, Ap
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563	27	54.0	112	9	US-10-959-310-26	Sequence 26, App1	636	27	54.0	264	11	US-11-188-298-8104	Sequence 8104, Ap
564	27	54.0	112	9	US-10-959-310-33	Sequence 33, App1	637	27	54.0	267	11	US-11-188-298-13063	Sequence 13063, A
565	27	54.0	112	9	US-10-959-310-34	Sequence 34, App1	638	27	54.0	268	11	US-11-096-568A-7693	Sequence 7693, App
566	27	54.0	112	9	US-10-959-310-35	Sequence 35, App1	639	27	54.0	268	11	US-11-096-568A-11899	Sequence 11899, A
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568	27	54.0	112	11	US-11-144-731-19	Sequence 19, App1	641	27	54.0	274	11	US-11-096-568A-2149	Sequence 2149, App
569	27	54.0	112	11	US-11-144-731-20	Sequence 20, App1	642	27	54.0	274	11	US-11-096-568A-6735	Sequence 6735, Ap
570	27	54.0	112	11	US-11-144-731-21	Sequence 21, App1	643	27	54.0	276	11	US-11-087-099-4700	Sequence 4700, Ap
571	27	54.0	113	9	US-10-959-310-23	Sequence 23, App1	644	27	54.0	276	11	US-11-188-298-4326	Sequence 4326, Ap
572	27	54.0	113	11	US-11-144-731-9	Sequence 9, App1	645	27	54.0	278	9	US-10-467-657-1848	Sequence 1848, Ap
573	27	54.0	113	11	US-11-096-568A-424	Sequence 424, App	646	27	54.0	280	11	US-11-096-568A-11541	Sequence 11541, A
574	27	54.0	113	11	US-11-096-568A-1000	Sequence 1000, App	647	27	54.0	280	11	US-11-096-568A-23463	Sequence 23463, A
575	27	54.0	115	11	US-11-096-568A-4365	Sequence 4365, Ap	648	27	54.0	281	11	US-11-096-568A-15905	Sequence 15905, A
576	27	54.0	117	11	US-11-103-957-74	Sequence 74, App1	649	27	54.0	283	11	US-11-096-568A-11898	Sequence 11898, A
577	27	54.0	119	11	US-11-096-568A-1407	Sequence 1407, App	650	27	54.0	284	11	US-11-096-568A-32476	Sequence 32476, A
578	27	54.0	119	11	US-11-096-568A-14137	Sequence 14137, A	651	27	54.0	286	10	US-11-301-554-1878	Sequence 1878, Ap
579	27	54.0	120	9	US-10-793-626-2376	Sequence 2376, Ap	652	27	54.0	290	10	US-11-096-568A-13897	Sequence 13897, A
580	27	54.0	126	7	US-09-978-360A-434	Sequence 434, App	653	27	54.0	292	8	US-10-322-836-18	Sequence 18, App1
581	27	54.0	129	11	US-11-019-711-32	Sequence 32, App1	654	27	54.0	292	11	US-11-234-586-532	Sequence 532, App
582	27	54.0	131	11	US-11-096-568A-4364	Sequence 4364, Ap	655	27	54.0	292	11	US-11-139-041-315	Sequence 315, App
583	27	54.0	132	11	US-11-096-568A-19178	Sequence 19178, A	656	27	54.0	292	11	US-11-139-041-345	Sequence 345, App
584	27	54.0	137	11	US-11-096-568A-4546	Sequence 4546, Ap	657	27	54.0	292	11	US-11-139-041-346	Sequence 346, App
585	27	54.0	141	11	US-11-096-568A-23043	Sequence 23043, A	658	27	54.0	293	11	US-11-087-099-9814	Sequence 9814, Ap
586	27	54.0	145	11	US-11-087-099-6873	Sequence 6873, A	659	27	54.0	298	11	US-11-188-298-4934	Sequence 4934, Ap
587	27	54.0	146	11	US-11-226-657-63	Sequence 63, App1	660	27	54.0	302	11	US-11-096-568A-1179	Sequence 1179, App
588	27	54.0	153	11	US-11-096-568A-18312	Sequence 18312, A	661	27	54.0	302	11	US-11-096-568A-27074	Sequence 27074, A
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590	27	54.0	159	11	US-11-096-568A-1406	Sequence 1406, Ap	663	27	54.0	303	11	US-11-096-568A-32315	Sequence 3215, A
591	27	54.0	160	11	US-11-096-568A-439	Sequence 439, App	664	27	54.0	308	7	US-09-978-360A-423	Sequence 423, App
592	27	54.0	160	11	US-11-096-568A-441	Sequence 441, App	665	27	54.0	308	11	US-11-072-512-2797	Sequence 2797, App
593	27	54.0	165	9	US-10-218-784-230	Sequence 230, App	666	27	54.0	311	11	US-11-139-041-347	Sequence 347, App
594	27	54.0	165	9	US-10-219-061-230	Sequence 230, App	667	27	54.0	312	11	US-11-096-568A-7662	Sequence 7662, App
595	27	54.0	165	9	US-10-219-062-230	Sequence 230, App	668	27	54.0	313	11	US-11-139-041-348	Sequence 348, App
596	27	54.0	165	9	US-10-219-064-230	Sequence 230, App	669	27	54.0	316	11	US-11-139-041-349	Sequence 349, App1
597	27	54.0	165	9	US-10-233-134-230	Sequence 230, App	670	27	54.0	316	11	US-11-188-298-9290	Sequence 9290, App
598	27	54.0	176	11	US-11-079-463-6744	Sequence 6744, Ap	671	27	54.0	316	11	US-11-188-298-12382	Sequence 12382, A
599	27	54.0	177	11	US-11-096-568A-4545	Sequence 4545, Ap	672	27	54.0	317	11	US-11-188-298-11301	Sequence 11031, A
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601	27	54.0	185	11	US-11-096-568A-12241	Sequence 12241, A	674	27	54.0	321	9	US-10-455-772-338	Sequence 338, App
602	27	54.0	186	11	US-11-052-554A-249	Sequence 249, App	675	27	54.0	322	11	US-11-134-241-35	Sequence 35, App1
603	27	54.0	186	11	US-11-096-568A-4602	Sequence 4602, Ap	676	27	54.0	322	11	US-11-087-099-4996	Sequence 4996, App
604	27	54.0	189	11	US-11-096-568A-12149	Sequence 12149, A	677	27	54.0	328	11	US-11-096-568A-20428	Sequence 20428, A
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681	27	54.0	334	11	US-10-987-856-6	Sequence 6, Appl1	754	27	54.0	585	9	US-10-455-772-928	Sequence 928, Ap
682	27	54.0	334	11	US-11-096-568A-2047	Sequence 2047, A	755	27	54.0	593	8	US-10-322-836-2	Sequence 2, Appl1
683	27	54.0	336	11	US-11-096-568A-2046	Sequence 20426, A	756	27	54.0	596	9	US-10-455-772-930	Sequence 930, Ap
684	27	54.0	338	8	US-10-322-836-16	Sequence 16, Appl	757	27	54.0	597	9	US-10-455-772-926	Sequence 926, Ap
685	27	54.0	341	11	US-11-096-568A-2148	Sequence 2148, Ap	758	27	54.0	598	9	US-10-455-772-925	Sequence 925, Ap
686	27	54.0	344	11	US-11-040-218-37	Sequence 37, Appl	759	27	54.0	600	9	US-10-055-877-103	Sequence 103, Ap
687	27	54.0	345	11	US-11-096-568A-32475	Sequence 32475, A	760	27	54.0	608	11	US-11-072-512-3337	Sequence 3337, Ap
688	27	54.0	347	11	US-11-096-568A-16579	Sequence 16579, A	761	27	54.0	612	9	US-10-455-772-922	Sequence 922, Appl
689	27	54.0	348	11	US-11-096-568A-6734	Sequence 6734, Ap	762	27	54.0	614	11	US-11-188-298-18381	Sequence 18381, A
690	27	54.0	348	11	US-11-188-298-2232	Sequence 2232, Ap	763	27	54.0	616	11	US-11-087-099-8299	Sequence 8299, Ap
691	27	54.0	349	8	US-10-511-937-2541	Sequence 2541, Ap	764	27	54.0	627	11	US-11-188-298-6685	Sequence 6685, Ap
692	27	54.0	349	8	US-10-511-937-2958	Sequence 2958, Ap	765	27	54.0	628	11	US-11-080-991-108	Sequence 108, Ap
693	27	54.0	353	8	US-10-322-836-38	Sequence 38, Appl	766	27	54.0	629	11	US-10-467-657-250	Sequence 250, Ap
694	27	54.0	356	11	US-11-096-568A-11102	Sequence 11102, A	767	27	54.0	629	9	US-10-467-657-3084	Sequence 3084, Ap
695	27	54.0	360	11	US-11-096-568A-32617	Sequence 32617, A	768	27	54.0	632	11	US-11-233-786-379	Sequence 379, Ap
696	27	54.0	361	11	US-11-096-568A-24045	Sequence 24045, A	769	27	54.0	636	11	US-11-139-041-305	Sequence 305, Ap
697	27	54.0	361	11	US-11-188-298-21695	Sequence 21695, A	770	27	54.0	657	11	US-11-080-991-48	Sequence 48, Appl
698	27	54.0	364	11	US-11-096-568A-32474	Sequence 32474, A	771	27	54.0	657	11	US-11-188-298-4006	Sequence 4006, Ap
699	27	54.0	366	11	US-10-510-386-42	Sequence 42, Appl	772	27	54.0	667	11	US-11-234-786-380	Sequence 380, Ap
700	27	54.0	366	11	US-11-087-099-7455	Sequence 7455, Ap	773	27	54.0	671	11	US-11-139-041-306	Sequence 306, Ap
701	27	54.0	366	11	US-11-096-568A-6733	Sequence 6733, Ap	774	27	54.0	678	11	US-10-322-836-46	Sequence 46, Appl
702	27	54.0	368	11	US-11-210-960-7	Sequence 7, Appl1	775	27	54.0	678	8	US-10-322-836-34	Sequence 34, Appl
703	27	54.0	369	11	US-11-096-568A-7691	Sequence 7691, Ap	776	27	54.0	693	8	US-10-511-989-32	Sequence 32, Appl
704	27	54.0	376	11	US-11-188-298-1836	Sequence 1836, Ap	777	27	54.0	717	9	US-10-511-989-34	Sequence 34, Appl
705	27	54.0	378	11	US-11-079-463-6850	Sequence 6850, Ap	778	27	54.0	724	8	US-10-322-836-44	Sequence 44, Appl
706	27	54.0	380	10	US-11-252-080-10	Sequence 10, Appl	779	27	54.0	729	8	US-10-322-836-32	Sequence 32, Appl
707	27	54.0	384	10	US-11-301-554-1876	Sequence 1876, Ap	780	27	54.0	734	11	US-11-264-096-717	Sequence 717, Ap
708	27	54.0	384	11	US-11-087-099-2073	Sequence 2073, Ap	781	27	54.0	833	7	US-09-720-086-8	Sequence 8, Appl1
709	27	54.0	384	11	US-11-139-041-304	Sequence 304, App	782	27	54.0	839	7	US-09-720-086-6	Sequence 6, Appl1
710	27	54.0	384	11	US-11-139-041-334	Sequence 334, App	783	27	54.0	941	11	US-11-124-367A-313	Sequence 313, App
711	27	54.0	392	11	US-11-139-041-340	Sequence 340, App	784	27	54.0	941	11	US-11-124-367A-315	Sequence 315, App
712	27	54.0	393	11	US-11-087-099-11999	Sequence 11929, A	785	27	54.0	944	9	US-10-511-989-34	Sequence 34, Appl
713	27	54.0	394	11	US-11-096-568A-2147	Sequence 2147, A	786	27	54.0	977	9	US-10-511-989-149	Sequence 149, Ap
714	27	54.0	394	11	US-11-183-615-17	Sequence 36, Appl	787	27	54.0	981	11	US-11-087-099-9267	Sequence 9267, Ap
715	27	54.0	399	8	US-11-139-041-336	Sequence 36, Appl	788	27	54.0	1104	11	US-11-087-099-9267	Sequence 9267, Ap
716	27	54.0	399	8	US-10-322-836-36	Sequence 8779, Ap	789	27	54.0	1110	11	US-11-188-298-9800	Sequence 17339, Ap
717	27	54.0	407	11	US-11-079-463-8779	Sequence 8779, Ap	790	27	54.0	1121	11	US-11-087-099-9800	Sequence 9800, Ap
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720	27	54.0	413	11	US-11-096-568A-33214	Sequence 33214, A	793	27	54.0	1122	11	US-11-087-099-3430	Sequence 3430, Ap
721	27	54.0	417	7	US-09-978-360A-420	Sequence 420, App	794	27	54.0	1122	11	US-11-087-099-9404	Sequence 9404, Ap
722	27	54.0	422	11	US-10-714-887-222	Sequence 222, App	795	27	54.0	1123	11	US-11-087-099-9908	Sequence 12448, A
723	27	54.0	422	11	US-11-096-568A-33213	Sequence 33213, A	796	27	54.0	1123	11	US-11-087-099-9908	Sequence 9908, Ap
724	27	54.0	437	11	US-11-096-568A-11539	Sequence 11539, A	797	27	54.0	1126	11	US-11-087-099-9957	Sequence 1183, Ap
725	27	54.0	438	8	US-10-322-836-42	Sequence 42, Appl	798	27	54.0	1126	11	US-11-087-099-9957	Sequence 2533, Ap
726	27	54.0	442	11	US-11-188-298-14710	Sequence 14710, A	799	27	54.0	1129	11	US-11-087-099-3328	Sequence 3328, Ap
727	27	54.0	445	11	US-11-000-463-461	Sequence 461, App	800	27	54.0	1130	11	US-11-087-099-3832	Sequence 9832, Ap
728	27	54.0	449	11	US-11-079-463-9038	Sequence 9038, Ap	801	27	54.0	1131	11	US-11-087-099-1451	Sequence 1451, Ap
729	27	54.0	455	9	US-10-987-856-4	Sequence 4, Appl1	802	27	54.0	1132	11	US-11-087-099-524	Sequence 7466, Ap
730	27	54.0	455	9	US-11-183-615-7	Sequence 7, Appl1	803	27	54.0	1133	11	US-11-087-099-524	Sequence 524, App
731	27	54.0	456	9	US-10-987-856-80	Sequence 80, Appl	804	27	54.0	1139	11	US-11-098-686-10206	Sequence 10206, A
732	27	54.0	477	11	US-11-264-096-80	Sequence 162, App	805	27	54.0	1144	11	US-11-098-686-10206	Sequence 723, App
733	27	54.0	477	11	US-10-511-989-162	Sequence 162, App	806	27	54.0	1226	11	US-11-096-568A-27547	Sequence 27547, A
734	27	54.0	484	8	US-10-322-836-40	Sequence 40, Appl	807	27	54.0	1236	11	US-11-096-568A-27546	Sequence 27546, A
735	27	54.0	484	8	US-11-188-298-8772	Sequence 8772, Ap	808	27	54.0	1240	11	US-11-096-568A-27545	Sequence 27545, A
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737	27	54.0	494	11	US-11-099-687-34	Sequence 34, Appl	810	27	54.0	1332	11	US-11-242-459-9	Sequence 9, Appl1
738	27	54.0	495	11	US-11-188-298-6184	Sequence 6184, Ap	811	27	54.0	1332	11	US-11-079-463-6036	Sequence 6036, Ap
739	27	54.0	496	11	US-11-188-298-12120	Sequence 12120, A	812	27	54.0	1354	11	US-11-109-157A-2	Sequence 2, Appl1
740	27	54.0	519	11	US-11-033-030-44	Sequence 44, A	813	27	54.0	1686	11	US-11-109-157A-1	Sequence 1, Appl1
741	27	54.0	519	11	US-11-188-298-20972	Sequence 20972, A	814	27	54.0	1719	11	US-11-226-701-2	Sequence 2, Appl1
742	27	54.0	529	11	US-11-139-041-324	Sequence 324, App	815	27	54.0	1722	11	US-11-234-786-378	Sequence 378, App
743	27	54.0	532	8	US-10-322-836-6	Sequence 26, Appl	816	27	54.0	1722	11	US-11-182-016-23	Sequence 23, Appl
744	27	54.0	541	11	US-11-096-568A-27459	Sequence 27459, A	817	27	54.0	2241	9	US-10-995-561-769	Sequence 769, App
745	27	54.0	546	11	US-11-051-720-1582	Sequence 1582, Ap	818	27	54.0	2387	9	US-10-204-252-24	Sequence 24, Appl
746	27	54.0	547	11	US-10-322-836-4	Sequence 4, Appl1	819	27	54.0	3387	9	US-10-204-252-26	Sequence 26, Appl
747	27	54.0	550	11	US-11-264-096-1284	Sequence 1284, Ap	820	27	54.0	3389	9	US-10-204-252-10	Sequence 10, Appl
748	27	54.0	567	9	US-10-718-264-6	Sequence 6, Appl1	821	27	54.0	3390	9	US-10-204-252-22	Sequence 22, Appl
749	27	54.0	567	9	US-11-176-667-6	Sequence 6, Appl1	822	27	54.0	3391	9	US-10-204-252-6	Sequence 6, Appl1
750	27	54.0	576	8	US-10-322-836-24	Sequence 24, Appl	823	27	54.0	3391	9	US-10-204-252-8	Sequence 8, Appl1
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ALIGNMENTS

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; Publication No. US20060079453A1
; GENERAL INFORMATION:

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; APPLICANT: SIDNEY, JOHN
; APPLICANT: SUTHERWOOD, SCOTT
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.03US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
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; ORGANISM: Human papillomavirus
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; Sequence 13, Application US/10530253

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; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Cassetti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100A137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
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; APPLICANT: HealthBanks Biotech CO. LTD.
; TITLE OF INVENTION: Fusion protein for inhibiting cervical cancer
; FILE REFERENCE: P7819/0613
; CURRENT APPLICATION NUMBER: US/11/206,138
; CURRENT FILING DATE: 2005-08-18
; NUMBER OF SEQ ID NOS: 14
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US-11-206-138-3

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; APPLICANT: Cassetti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100A137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
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; PRIOR FILING DATE: 2002-10-03
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; GENERAL INFORMATION:
; APPLICANT: Cassetti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; PRIOR FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
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US-10-530-253-3
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; GENERAL INFORMATION:
; APPLICANT: Cassetti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; PRIOR FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
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; GENERAL INFORMATION:
; APPLICANT: Cassetti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; PRIOR FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
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; APPLICANT: Cassetti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; PRIOR FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 9
; LENGTH: 248
; TYPE: PR
; ORGANISM: Human papillomavirus type 16
US-10-530-253-9
```

Query Match 100.0%; Score 50; DB 9; Length 248;
Best Local Similarity 100.0%; Pred. No. 0.29;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MSCCRSRT 9
DB 234 MSCCRSRT 242

RESULT 9
US-10-530-253-11
; Sequence 11, Application US/10530253
; Publication No. US2006001926A1
; GENERAL INFORMATION:
; APPLICANT: Casasetti, Maria C.
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; PRIOR FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 11
; LENGTH: 248
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-10-530-253-11

Query Match 100.0%; Score 50; DB 9; Length 248;
Best Local Similarity 100.0%; Pred. No. 0.29;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MSCCRSRT 9
DB 234 MSCCRSRT 242

RESULT 10
US-11-192-923A-2
; Sequence 2, Application US/11192923A
; Publication No. US20060018928A1
; GENERAL INFORMATION:
; APPLICANT: PANQ, XIAOMU
; TITLE OF INVENTION: VIRUS-LIKE PARTICLE CONTAINING A DENGUE VIRUS
; FILE REFERENCE: 116620-003
; CURRENT APPLICATION NUMBER: US/11/192,923A
; PRIOR FILING DATE: 2005-07-29
; PRIOR APPLICATION NUMBER: CN 03115272.4
; PRIOR FILING DATE: 2003-01-30
; PRIOR APPLICATION NUMBER: CN 03115273.2
; PRIOR FILING DATE: 2003-01-30
; NUMBER OF SEQ ID NOS: 45
; SOFTWARE: PatentIn Ver. 3.3
; SEQ ID NO 2
; LENGTH: 256
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-11-192-923A-2

Query Match 100.0%; Score 50; DB 11; Length 256;
Best Local Similarity 100.0%; Pred. No. 0.3;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MSCCRSRT 9
DB 242 MSCCRSRT 250

RESULT 11
US-10-530-061-513
; Sequence 513, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.033US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; PRIOR FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 513
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-513

Query Match 94.0%; Score 47; DB 9; Length 10;
Best Local Similarity 88.9%; Pred. No. 0.078;
Matches 8; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 MSCCRSRT 9
DB 1 MTCCRSRT 9

RESULT 12
US-10-530-061-606
; Sequence 606, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.033US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; PRIOR FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 606
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-606

Query Match 90.0%; Score 45; DB 9; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.9e+05;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 SCCRSSRT 9
DB 1 SCCRSSRT 8

RESULT 13


```
US-10-530-061-516
; Sequence 516, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.033US02/EKS/M-W
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: US/10/530,061
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 516
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-516

Query Match          90.0%; Score 45; DB 9; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.16;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      2 SCCRSSRT 9
        |||||
Db      1 SCCRSSRT 8

RESULT 14
US-11-087-099-575
; Sequence 575, Application US/11087099
; Publication No. US20060041961A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: Genes and Uses for Plant Improvement
; FILE REFERENCE: 38-21(53450)B EP
; CURRENT APPLICATION NUMBER: US/11/087,099
; CURRENT FILING DATE: 2005-03-22
; NUMBER OF SEQ ID NOS: 12464
; SEQ ID NO 575
; LENGTH: 371
; TYPE: PRT
; ORGANISM: Agrobacterium tumefaciens str. C58 (Cereon)
US-11-087-099-575

Query Match          80.0%; Score 40; DB 11; Length 371;
Best Local Similarity 77.8%; Pred. No. 15;
Matches 7; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      1 MCCRSSRT 9
        |||||
Db      1 MCCRSSRT 9

RESULT 15
US-10-644-807-200
; Sequence 200, Application US/10644807
; Publication No. US20060057582A1
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: 83 Human Secreted Proteins
; FILE REFERENCE: PS735
; CURRENT APPLICATION NUMBER: US/10/644,807
; CURRENT FILING DATE: 2003-08-21
; PRIOR APPLICATION NUMBER: PCT/US02/05064
; PRIOR FILING DATE: 2002-02-21
; PRIOR APPLICATION NUMBER: 60/270,658
```

```
; PRIOR FILING DATE: 2001-02-23
; PRIOR APPLICATION NUMBER: 60/304,444
; PRIOR FILING DATE: 2001-07-12
; NUMBER OF SEQ ID NOS: 445
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 200
; LENGTH: 95
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-644-807-200

Query Match          72.0%; Score 36; DB 9; Length 95;
Best Local Similarity 75.0%; Pred. No. 23;
Matches 6; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      2 SCCRSSRT 9
        |||||
Db      62 SCCRGRRT 69

RESULT 16
US-10-644-807-283
; Sequence 283, Application US/10644807
; Publication No. US20060057582A1
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: 83 Human Secreted Proteins
; FILE REFERENCE: PS735
; CURRENT APPLICATION NUMBER: US/10/644,807
; CURRENT FILING DATE: 2003-08-21
; PRIOR APPLICATION NUMBER: PCT/US02/05064
; PRIOR FILING DATE: 2002-02-21
; PRIOR APPLICATION NUMBER: 60/270,658
; PRIOR FILING DATE: 2001-02-23
; PRIOR APPLICATION NUMBER: 60/304,444
; PRIOR FILING DATE: 2001-07-12
; NUMBER OF SEQ ID NOS: 445
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 283
; LENGTH: 95
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: SITE
; LOCATION: (80)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
US-10-644-807-283

Query Match          72.0%; Score 36; DB 9; Length 95;
Best Local Similarity 75.0%; Pred. No. 23;
Matches 6; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      2 SCCRSSRT 9
        |||||
Db      62 SCCRGRRT 69

RESULT 17
US-11-079-463-7574
; Sequence 7574, Application US/11079463
; Publication No. US20060073161A1
; GENERAL INFORMATION:
; APPLICANT: Gary L. Bretton
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO BACTERIOIDES FRA
; FILE REFERENCE: PAT00-03DIV2
; CURRENT APPLICATION NUMBER: US/11/079,463
; CURRENT FILING DATE: 2005-03-14
; PRIOR APPLICATION NUMBER: US 60/128,705
; PRIOR FILING DATE: 1999-04-09
; PRIOR APPLICATION NUMBER: US 09/540,209
; PRIOR FILING DATE: 2000-04-04
; NUMBER OF SEQ ID NOS: 10444
```

Tue May 9 09:28:33 2006

us-08-170-344-37.rapbn

SEQ ID NO 7574
LENGTH: 522
TYPE: PRT
ORGANISM: B.fragilis
US-11-079-463-7574

Query Match 72.0%; Score 36; DB 11; Length 522;
Best Local Similarity 100.0%; Pred. No. 81;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3 CCRSSR 8
|||||
Db 514 CCRSSR 519

RESULT 18
US-10-877-346-44
Sequence 44, Application US/10877346
Publication No. US20060014153A1
GENERAL INFORMATION:
APPLICANT: Gerlach, Valerie L
APPLICANT: MacDougall, John R
APPLICANT: Smitheon, Glenda
APPLICANT: Miller, Isabelle
APPLICANT: Stone, David
APPLICANT: Gunther, Erik
APPLICANT: Ellerman, Karen
APPLICANT: Grose, William M
APPLICANT: Alsobrook II, John P
APPLICANT: Lepley, Denise M
APPLICANT: Burgess, Catherine E
APPLICANT: Padigaru, Muralidhara
APPLICANT: Kekuda, Ramesh
APPLICANT: Spytek, Kimberly A
APPLICANT: Leach, Martin D
APPLICANT: Shimkets, Richard A
TITLE OF INVENTION: Novel Proteins and Nucleic Acids Encoding Same
FILE REFERENCE: 21402-124
CURRENT APPLICATION NUMBER: US/10/877,346
CURRENT FILING DATE: 2004-06-25
PRIOR APPLICATION NUMBER: US/09/964,956
PRIOR FILING DATE: 2001-09-26
PRIOR APPLICATION NUMBER: 60/235,631
PRIOR FILING DATE: 2000-09-27
PRIOR APPLICATION NUMBER: 60/235,633
PRIOR FILING DATE: 2000-09-27
PRIOR APPLICATION NUMBER: 60/235,808
PRIOR FILING DATE: 2000-09-27
PRIOR APPLICATION NUMBER: 60/236,064
PRIOR FILING DATE: 2000-09-27
PRIOR APPLICATION NUMBER: 60/236,065
PRIOR FILING DATE: 2000-09-27
PRIOR APPLICATION NUMBER: 60/236,066
PRIOR FILING DATE: 2000-09-27
PRIOR APPLICATION NUMBER: 60/236,135
PRIOR FILING DATE: 2000-09-28
PRIOR APPLICATION NUMBER: 60/237,434
PRIOR FILING DATE: 2000-10-03
PRIOR APPLICATION NUMBER: 60/238,321
PRIOR FILING DATE: 2000-10-03
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 127
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 44
LENGTH: 1905
TYPE: PRT
ORGANISM: Xenopus laevis
US-10-877-346-44

Query Match 72.0%; Score 36; DB 9; Length 1905;
Best Local Similarity 75.0%; Pred. No. 2,1e+02;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 2 SCCRSSRT 9
|||||
Db 1506 SCCRSPQT 1513

RESULT 19
US-10-530-061-605
Sequence 605, Application US/10530061
Publication No. US20060079453A1
GENERAL INFORMATION:
APPLICANT: SIDNEY, JOHN
APPLICANT: SOUTHWOOD, SCOTT
APPLICANT: SETTE, ALESSANDRO
TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
FILE REFERENCE: 2060.033US02/EKS/M-M
CURRENT APPLICATION NUMBER: US/10/530,061
CURRENT FILING DATE: 2005-04-04
PRIOR APPLICATION NUMBER: PCT/US03/31308
PRIOR FILING DATE: 2003-10-03
PRIOR APPLICATION NUMBER: 60/416,207
PRIOR FILING DATE: 2002-10-03
PRIOR APPLICATION NUMBER: 60/417,269
PRIOR FILING DATE: 2002-10-08
NUMBER OF SEQ ID NOS: 2503
SOFTWARE: PatentIn version 3.3
SEQ ID NO 605
LENGTH: 9
TYPE: PRT
ORGANISM: Human papillomavirus
US-10-530-061-605

Query Match 70.0%; Score 35; DB 9; Length 9;
Best Local Similarity 87.5%; Pred. No. 1.9e+05;
Matches 7; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2 SCCRSSRT 9
|||||
Db 1 SCCRSSRT 8

RESULT 20
US-10-530-061-515
Sequence 515, Application US/10530061
Publication No. US20060079453A1
GENERAL INFORMATION:
APPLICANT: SIDNEY, JOHN
APPLICANT: SOUTHWOOD, SCOTT
APPLICANT: SETTE, ALESSANDRO
TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
FILE REFERENCE: 2060.033US02/EKS/M-M
CURRENT APPLICATION NUMBER: US/10/530,061
CURRENT FILING DATE: 2005-04-04
PRIOR APPLICATION NUMBER: PCT/US03/31308
PRIOR FILING DATE: 2003-10-03
PRIOR APPLICATION NUMBER: 60/416,207
PRIOR FILING DATE: 2002-10-03
PRIOR APPLICATION NUMBER: 60/417,269
PRIOR FILING DATE: 2002-10-08
NUMBER OF SEQ ID NOS: 2503
SOFTWARE: PatentIn version 3.3
SEQ ID NO 515
LENGTH: 10
TYPE: PRT
ORGANISM: Human papillomavirus
US-10-530-061-515

Query Match 70.0%; Score 35; DB 9; Length 10;
Best Local Similarity 87.5%; Pred. No. 6.1;
Matches 7; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2 SCCRSSRT 9
|||||
Db 1 SCCRSSRT 8

RESULT 21
US-11-159-667-38
; Sequence 38, Application US/11159667
; Publication No. US20060041958A1
; GENERAL INFORMATION:
; APPLICANT: Butenko, Melinka
; APPLICANT: Aalen, Reidun
; TITLE OF INVENTION: Plant gene
; FILE REFERENCE: 674178-2001
; CURRENT APPLICATION NUMBER: US/11/159,667
; CURRENT FILING DATE: 2005-06-23
; PRIOR APPLICATION NUMBER: PCT/N003/00428
; PRIOR FILING DATE: 2003-12-19
; PRIOR APPLICATION NUMBER: GB0230039.0
; PRIOR FILING DATE: 2002-12-23
; PRIOR APPLICATION NUMBER: GB0313773.4
; PRIOR FILING DATE: 2003-06-13
; NUMBER OF SEQ ID NOS: 42
; SOFTWARE: Patentin version 3.1
; SEQ ID NO 38
; LENGTH: 99
; TYPE: PRT
; ORGANISM: Arabidopsis thaliana
US-11-159-667-38

Query Match 70.0%; Score 35; DB 11; Length 99;
Best Local Similarity 55.6%; Pred. No. 34;
Matches 5; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

Qy 1 MSCRSSRT 9
Db 27 LSCCNGART 35

RESULT 22
US-11-079-463-10120
; Sequence 10120, Application US/11079463
; Publication No. US20060073161A1
; GENERAL INFORMATION:
; APPLICANT: Gary L. Breton
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO BACTERIOIDES FR
; FILE REFERENCE: PATHO-03DIV2
; CURRENT APPLICATION NUMBER: US/11/079,463
; CURRENT FILING DATE: 2005-03-14
; PRIOR APPLICATION NUMBER: US 60/128,705
; PRIOR FILING DATE: 1999-04-09
; PRIOR APPLICATION NUMBER: US 09/540,209
; PRIOR FILING DATE: 2000-04-04
; NUMBER OF SEQ ID NOS: 10444
; SEQ ID NO 10120
; LENGTH: 101
; TYPE: PRT
; ORGANISM: B.fragilis
US-11-079-463-10120

Query Match 70.0%; Score 35; DB 11; Length 101;
Best Local Similarity 62.5%; Pred. No. 34;
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 1 MSCRSSR 8
Db 27 LDCCRSAR 34

RESULT 23
US-11-096-568A-27
; Sequence 27, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
; APPLICANT: Alexandrov, Nikolai et al.

; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
; FILE REFERENCE: 2750-1592PUS2
; CURRENT APPLICATION NUMBER: US/11/096,568A
; CURRENT FILING DATE: 2005-04-01
; NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 27
; LENGTH: 128
; TYPE: PRT
; ORGANISM: Zea mays subsp. mays
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1)-(128)
; OTHER INFORMATION: Ceres Seq. ID no. 13587230
US-11-096-568A-27

Query Match 70.0%; Score 35; DB 11; Length 128;
Best Local Similarity 100.0%; Pred. No. 41;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 SCCRSS 7
Db 47 SCCRSS 52

RESULT 24
US-11-096-568A-26
; Sequence 26, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
; APPLICANT: Alexandrov, Nikolai et al.
; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
; FILE REFERENCE: 2750-1592PUS2
; CURRENT APPLICATION NUMBER: US/11/096,568A
; CURRENT FILING DATE: 2005-04-01
; NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 26
; LENGTH: 143
; TYPE: PRT
; ORGANISM: Zea mays subsp. mays
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1)-(143)
; OTHER INFORMATION: Ceres Seq. ID no. 13587229
US-11-096-568A-26

Query Match 70.0%; Score 35; DB 11; Length 143;
Best Local Similarity 100.0%; Pred. No. 44;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 SCCRSS 7
Db 62 SCCRSS 67

RESULT 25
US-11-096-568A-14075
; Sequence 14075, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
; APPLICANT: Alexandrov, Nikolai et al.
; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
; FILE REFERENCE: 2750-1592PUS2
; CURRENT APPLICATION NUMBER: US/11/096,568A
; CURRENT FILING DATE: 2005-04-01
; NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 14075
; LENGTH: 156
; TYPE: PRT
; ORGANISM: Zea mays subsp. mays
; FEATURE:

```
NAME/KEY: misc feature
LOCATION: (1)..(156)
OTHER INFORMATION: Ceres Seq. ID no. 1439682
FEATURE:
NAME/KEY: misc_feature
LOCATION: (67)..(67)
OTHER INFORMATION: Xaa is any aa, unknown or other
FEATURE:
NAME/KEY: misc feature
LOCATION: (152)..(152)
OTHER INFORMATION: Xaa is any aa, unknown or other
US-11-096-568A-14075
```

```
Query Match      68.0%; Score 34; DB 11; Length 156;
Best Local Similarity 75.0%; Pred. No. 68;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
```

```
QY      2 SCCRSSRT 9
      |||
Db      15 SCCDSSRS 22
```

```
RESULT 26
US-11-096-568A-23996
; Sequence 23996, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
; APPLICANT: Alexandrov, Nickolai et al.
; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
; FILE REFERENCE: 2750-1592PUS2
; CURRENT APPLICATION NUMBER: US/11/096.568A
; CURRENT FILING DATE: 2005-04-01
; NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 23996
; LENGTH: 190
; TYPE: PRT
; ORGANISM: Zea mays subsp. mays
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)..(190)
; OTHER INFORMATION: Ceres Seq. ID no. 12417446
US-11-096-568A-23996
```

```
Query Match      68.0%; Score 34; DB 11; Length 190;
Best Local Similarity 55.6%; Pred. No. 79;
Matches 5; Conservative 1; Mismatches 3; Indels 0; Gaps 0;
```

```
QY      1 MSCCRSSRT 9
      |||
Db      47 LPCRCRGRT 55
```

```
RESULT 27
US-10-982-145-72
; Sequence 72, Application US/10982145
; Publication No. US20050272645A1
; GENERAL INFORMATION:
; APPLICANT: Robert Lehrer
; APPLICANT: Alan Waring
; APPLICANT: Teresa Hong
; APPLICANT: Alexander Cole
; TITLE OF INVENTION: Retrocyclins: Antiviral and
; TITLE OF INVENTION: Antimicrobial Peptides
; FILE REFERENCE: UCLA-001CIP2
; CURRENT APPLICATION NUMBER: US/10/982.145
; CURRENT FILING DATE: 2004-11-05
; PRIOR APPLICATION NUMBER: US03/14106
; PRIOR FILING DATE: 2003-05-06
; PRIOR APPLICATION NUMBER: 10/141.645
; PRIOR FILING DATE: 2002-05-06
; PRIOR APPLICATION NUMBER: US02/12353
; PRIOR FILING DATE: 2002-04-18
```

```
; PRIOR APPLICATION NUMBER: 60/284,855
; PRIOR FILING DATE: 2001-04-18
; NUMBER OF SEQ ID NOS: 135
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 72
; LENGTH: 141
; TYPE: PRT
; ORGANISM: Rhesus monkey
; FEATURE:
; NAME/KEY: VARIANT
; LOCATION: 113
; OTHER INFORMATION: Xaa = Any Amino Acid
US-10-982-145-72
```

```
Query Match      66.0%; Score 33; DB 9; Length 141;
Best Local Similarity 83.3%; Pred. No. 91;
Matches 5; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      3 CCRSSR 8
      |||
Db      95 CCRASR 100
```

```
RESULT 28
US-10-982-145-73
; Sequence 73, Application US/10982145
; Publication No. US20050272645A1
; GENERAL INFORMATION:
; APPLICANT: Robert Lehrer
; APPLICANT: Alan Waring
; APPLICANT: Alexander Cole
; APPLICANT: Teresa Hong
; TITLE OF INVENTION: Retrocyclins: Antiviral and
; TITLE OF INVENTION: Antimicrobial Peptides
; FILE REFERENCE: UCLA-001CIP2
; CURRENT APPLICATION NUMBER: US/10/982.145
; CURRENT FILING DATE: 2004-11-05
; PRIOR APPLICATION NUMBER: US03/14106
; PRIOR FILING DATE: 2003-05-06
; PRIOR APPLICATION NUMBER: 10/141.645
; PRIOR FILING DATE: 2002-05-06
; PRIOR APPLICATION NUMBER: US02/12353
; PRIOR FILING DATE: 2002-04-18
; PRIOR APPLICATION NUMBER: 60/284,855
; PRIOR FILING DATE: 2001-04-18
; NUMBER OF SEQ ID NOS: 135
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 73
; LENGTH: 141
; TYPE: PRT
; ORGANISM: pig-tailed macaque
; FEATURE:
; NAME/KEY: VARIANT
; LOCATION: 113
; OTHER INFORMATION: Xaa = Any Amino Acid
US-10-982-145-73
```

```
Query Match      66.0%; Score 33; DB 9; Length 141;
Best Local Similarity 83.3%; Pred. No. 91;
Matches 5; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      3 CCRSSR 8
      |||
Db      95 CCRASR 100
```

```
RESULT 29
US-11-096-568A-12659
; Sequence 12659, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
; APPLICANT: Alexandrov, Nickolai et al.
; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptide;
```

```
; TITLE OF INVENTION: Therby
; FILE REFERENCE: 2750-1592PUS2
; CURRENT APPLICATION NUMBER: US/11/096,568A
; CURRENT FILING DATE: 2005-04-01
; NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 12659
; LENGTH: 144
; TYPE: PRT
; ORGANISM: Triticum aestivum
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)..(144)
; OTHER INFORMATION: Ceres Seq. ID no. 14302989
US-11-096-568A-12659
```

```
Query Match          66.0%; Score 33; DB 11; Length 144;
Best Local Similarity 71.4%; Pred. No. 92;
Matches 5; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
```

```
Oy      2  MSCRSS  8
         |||||
Db       92  SCCRAGR 98
```

```
RESULT 30
US-11-084-591-5
; Sequence 5, Application US/11084591
; Publication No. US20050260202A1
; GENERAL INFORMATION:
; APPLICANT: Bernstein, Harold S.
; APPLICANT: Bristolow, James
; TITLE OF INVENTION: Methods for Producing Proliferating Muscle Cells
; FILE REFERENCE: UCSF-09802
; CURRENT APPLICATION NUMBER: US/11/084,591
; CURRENT FILING DATE: 2005-03-17
; NUMBER OF SEQ ID NOS: 8
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 5
; LENGTH: 184
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-084-591-5
```

```
Query Match          66.0%; Score 33; DB 11; Length 184;
Best Local Similarity 71.4%; Pred. No. 1.1e+02;
Matches 5; Conservative 2; Mismatches 0; Indels 0; Gaps 0;
```

```
Oy      1  MSCRSS  7
         |||||
Db      128  MTCCOSS 134
```

```
RESULT 31
US-11-264-096-347
; Sequence 347, Application US/11264096
; Publication No. US20060084794A1
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: Albumin Fusion Proteins
; FILE REFERENCE: PFS46D1
; CURRENT APPLICATION NUMBER: US/11/264,096
; CURRENT FILING DATE: 2005-11-02
; PRIOR APPLICATION NUMBER: 09/833,245
; PRIOR FILING DATE: 2001-04-12
; PRIOR APPLICATION NUMBER: 60/229, 358
; PRIOR FILING DATE: 2000-04-12
; PRIOR APPLICATION NUMBER: 60/256, 931
; PRIOR FILING DATE: 2000-12-21
; PRIOR APPLICATION NUMBER: 60/199, 384
; PRIOR FILING DATE: 2000-04-25
; NUMBER OF SEQ ID NOS: 2267
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 347
```

```
; LENGTH: 184
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-264-096-347
```

```
Query Match          66.0%; Score 33; DB 11; Length 184;
Best Local Similarity 71.4%; Pred. No. 1.1e+02;
Matches 5; Conservative 2; Mismatches 0; Indels 0; Gaps 0;
```

```
Oy      1  MSCRSS  7
         |||||
Db      128  MTCCOSS 134
```

```
RESULT 32
US-11-264-096-2250
; Sequence 2250, Application US/11264096
; Publication No. US20060084794A1
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: Albumin Fusion Proteins
; FILE REFERENCE: PFS46D1
; CURRENT APPLICATION NUMBER: US/11/264,096
; CURRENT FILING DATE: 2005-11-02
; PRIOR APPLICATION NUMBER: 09/833,245
; PRIOR FILING DATE: 2001-04-12
; PRIOR APPLICATION NUMBER: 60/229, 358
; PRIOR FILING DATE: 2000-04-12
; PRIOR APPLICATION NUMBER: 60/256, 931
; PRIOR FILING DATE: 2000-12-21
; PRIOR APPLICATION NUMBER: 60/199, 384
; PRIOR FILING DATE: 2000-04-25
; NUMBER OF SEQ ID NOS: 2267
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2250
; LENGTH: 184
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-264-096-2250
```

```
Query Match          66.0%; Score 33; DB 11; Length 184;
Best Local Similarity 71.4%; Pred. No. 1.1e+02;
Matches 5; Conservative 2; Mismatches 0; Indels 0; Gaps 0;
```

```
Oy      1  MSCRSS  7
         |||||
Db      128  MTCCOSS 134
```

```
RESULT 33
US-11-087-099-2802
; Sequence 2802, Application US/11087099
; Publication No. US20060041961A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: Genes and Uses for Plant Improvement
; FILE REFERENCE: 38-21(53450)B EP
; CURRENT APPLICATION NUMBER: US/11/087,099
; CURRENT FILING DATE: 2005-03-22
; NUMBER OF SEQ ID NOS: 12464
; SEQ ID NO 2802
; LENGTH: 206
; TYPE: PRT
; ORGANISM: Oryza sativa
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)..(206)
; OTHER INFORMATION: unsure at all xaa locations
US-11-087-099-2802
```

```
Query Match          66.0%; Score 33; DB 11; Length 206;
Best Local Similarity 62.5%; Pred. No. 1.2e+02;
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;
```

Oy 2 SCCRSSR 9
: ||| :
Db 35 ACCRSRS 42

RESULT 34
US-11-096-568A-20616
; Sequence 20616, Application US/11096568A
; Publication No. US20060048240A1

; GENERAL INFORMATION:
; APPLICANT: Alexandrov, Nikolai et al.
; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
; FILE REFERENCE: 2750-1592PUS2
; CURRENT APPLICATION NUMBER: US/11/096,568A
; CURRENT FILING DATE: 2005-04-01
; NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 20616
; LENGTH: 274
; TYPE: PRT
; ORGANISM: Zea mays subsp. mays
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1)-(274)
; OTHER INFORMATION: Ceres Seq. ID no. 12383535
US-11-096-568A-20616

Query Match 66.0%; Score 33; DB 11; Length 274;
Best Local Similarity 83.3%; Pred. No. 1.5e+02;
Matches 5; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Oy 3 CCRSSR 8
: ||| :
Db 215 CCRASR 220

RESULT 35
US-11-096-568A-20615
; Sequence 20615, Application US/11096568A
; Publication No. US20060048240A1

; GENERAL INFORMATION:
; APPLICANT: Alexandrov, Nikolai et al.
; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
; FILE REFERENCE: 2750-1592PUS2
; CURRENT APPLICATION NUMBER: US/11/096,568A
; CURRENT FILING DATE: 2005-04-01
; NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 20615
; LENGTH: 340
; TYPE: PRT
; ORGANISM: Zea mays subsp. mays
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1)-(340)
; OTHER INFORMATION: Ceres Seq. ID no. 12383534
US-11-096-568A-20615

Query Match 66.0%; Score 33; DB 11; Length 340;
Best Local Similarity 83.3%; Pred. No. 1.8e+02;
Matches 5; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Oy 3 CCRSSR 8
: ||| :
Db 281 CCRASR 286

RESULT 36
US-11-096-568A-20614
; Sequence 20614, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:

; APPLICANT: Alexandrov, Nikolai et al.
; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
; FILE REFERENCE: 2750-1592PUS2
; CURRENT APPLICATION NUMBER: US/11/096,568A
; CURRENT FILING DATE: 2005-04-01
; NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 20614
; LENGTH: 360
; TYPE: PRT
; ORGANISM: Zea mays subsp. mays
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1)-(360)
; OTHER INFORMATION: Ceres Seq. ID no. 12383533
US-11-096-568A-20614

Query Match 66.0%; Score 33; DB 11; Length 360;
Best Local Similarity 83.3%; Pred. No. 1.8e+02;
Matches 5; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Oy 3 CCRSSR 8
: ||| :
Db 301 CCRASR 306

RESULT 37
US-11-087-099-1572
; Sequence 1572, Application US/11087099
; Publication No. US20060041961A1

; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: Genes and Uses for Plant Improvement
; FILE REFERENCE: 38-21(53450)B EP
; CURRENT APPLICATION NUMBER: US/11/087,099
; CURRENT FILING DATE: 2005-03-22
; NUMBER OF SEQ ID NOS: 12464
; SEQ ID NO 1572
; LENGTH: 374
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)-(374)
; OTHER INFORMATION: unsure at all Xaa locations
US-11-087-099-1572

Query Match 66.0%; Score 33; DB 11; Length 374;
Best Local Similarity 55.6%; Pred. No. 1.9e+02;
Matches 5; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

Oy 1 MSCCRSSR 9
: ||| :
Db 72 LSCCSTPRT 80

RESULT 38
US-10-895-064-42
; Sequence 42, Application US/10895064
; Publication No. US20060018923A1

; GENERAL INFORMATION:
; APPLICANT: PEIRIS, JOSEPH S.M.
; APPLICANT: YUEN, KWOK YUNG
; APPLICANT: POON, LIT MAN
; APPLICANT: GUAN, YI
; APPLICANT: CHAN, KWOK HUNG
; APPLICANT: NICHOLLS, JOHN M.
; APPLICANT: LEUNG, FREDERICK C.
; TITLE OF INVENTION: A NOVEL HUMAN VIRUS CAUSING RESPIRATORY TRACT INFECTION AND USE
; FILE REFERENCE: V0690.0031
; CURRENT APPLICATION NUMBER: US/10/895,064
; CURRENT FILING DATE: 2004-07-21

NUMBER OF SEQ ID NOS: 2918
SOFTWARE: PatentIn version 3.2
SEQ ID NO 42
LENGTH: 9
TYPE: PRT
ORGANISM: Corononavirus-HKU1
US-10-895-064-42

Query Match 64.0%; Score 32; DB 9; Length 9;
Best Local Similarity 83.3%; Pred. No. 1.9e+05;
Matches 5; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 2 SCCRSS 7
:|||||
Db 3 TCCRSS 8

RESULT 39
US-11-129-741-42
Sequence 42, Application US/11129741
Publication No. US20060034853A1
GENERAL INFORMATION:
APPLICANT: YUEN, KWOK YUNG
APPLICANT: WOO, CHIU YAT PATRICK
APPLICANT: LAU, KAR PUI SUSANNA
APPLICANT: CHAN, KWOK HUNG
APPLICANT: POON, LIT MAN
APPLICANT: PEIRIS, JOSEPH S.M.
TITLE OF INVENTION: A NOVEL HUMAN VIRUS CAUSING RESPIRATORY TRACT
TITLE OF INVENTION: INFECTION AND USES THEREOF
FILE REFERENCE: V0690.0044
CURRENT APPLICATION NUMBER: US/11/129,741
PRIOR FILING DATE: 2005-05-16
PRIOR APPLICATION NUMBER: 10/895,064
PRIOR FILING DATE: 2004-07-21
NUMBER OF SEQ ID NOS: 4257
SOFTWARE: PatentIn version 3.3
SEQ ID NO 42
LENGTH: 9
TYPE: PRT
ORGANISM: Corononavirus-HKU1
US-11-129-741-42

Query Match 64.0%; Score 32; DB 11; Length 9;
Best Local Similarity 83.3%; Pred. No. 1.9e+05;
Matches 5; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 2 SCCRSS 7
:|||||
Db 3 TCCRSS 8

RESULT 40
US-11-129-741-2978
Sequence 2978, Application US/11129741
Publication No. US20060034853A1
GENERAL INFORMATION:
APPLICANT: YUEN, KWOK YUNG
APPLICANT: WOO, CHIU YAT PATRICK
APPLICANT: LAU, KAR PUI SUSANNA
APPLICANT: CHAN, KWOK HUNG
APPLICANT: POON, LIT MAN
APPLICANT: PEIRIS, JOSEPH S.M.
TITLE OF INVENTION: A NOVEL HUMAN VIRUS CAUSING RESPIRATORY TRACT
TITLE OF INVENTION: INFECTION AND USES THEREOF
FILE REFERENCE: V0690.0044
CURRENT APPLICATION NUMBER: US/11/129,741
PRIOR FILING DATE: 2005-05-16
PRIOR APPLICATION NUMBER: 10/895,064
PRIOR FILING DATE: 2004-07-21
NUMBER OF SEQ ID NOS: 4257

SOFTWARE: PatentIn version 3.3
SEQ ID NO 2978
LENGTH: 9
TYPE: PRT
ORGANISM: Corononavirus-HKU1
US-11-129-741-2978

Query Match 64.0%; Score 32; DB 11; Length 9;
Best Local Similarity 83.3%; Pred. No. 1.9e+05;
Matches 5; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 2 SCCRSS 7
:|||||
Db 3 TCCRSS 8

RESULT 41
US-10-530-061-511
Sequence 511, Application US/10530061
Publication No. US20060079453A1
GENERAL INFORMATION:
APPLICANT: SIDNEY, JOHN
APPLICANT: SOUTHWOOD, SCOTT
APPLICANT: SETTE, ALESSANDRO
TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
FILE REFERENCE: 2060.033US02/EKS/M-M
CURRENT APPLICATION NUMBER: US/10/530,061
PRIOR FILING DATE: 2005-04-04
PRIOR APPLICATION NUMBER: PCT/US03/31308
PRIOR FILING DATE: 2003-10-03
PRIOR APPLICATION NUMBER: 60/416,207
PRIOR FILING DATE: 2002-10-03
PRIOR APPLICATION NUMBER: 60/417,269
PRIOR FILING DATE: 2002-10-08
NUMBER OF SEQ ID NOS: 2503
SOFTWARE: PatentIn version 3.3
SEQ ID NO 511
LENGTH: 10
TYPE: PRT
ORGANISM: Human papillomavirus
US-10-530-061-511

Query Match 64.0%; Score 32; DB 9; Length 10;
Best Local Similarity 100.0%; Pred. No. 18;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MSCCR 5
:|||||
Db 6 MSCCR 10

RESULT 42
US-11-096-568A-13756
Sequence 13756, Application US/11096568A
Publication No. US20060048240A1
GENERAL INFORMATION:
APPLICANT: Alexandrov, Nickolai et al.
TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
TITLE OF INVENTION: Theby
FILE REFERENCE: 2750-1592PUS2
CURRENT APPLICATION NUMBER: US/11/096,568A
CURRENT FILING DATE: 2005-04-01
NUMBER OF SEQ ID NOS: 34471
SEQ ID NO 13756
LENGTH: 141
TYPE: PRT
ORGANISM: Zea mays subsp. mays
FEATURE:
NAME/KEY: misc_feature
LOCATION: (1)..(141)
OTHER INFORMATION: Ceres Seq. ID no. 12360609
US-11-096-568A-13756

Query Match 64.0%; Score 32; DB 11; Length 141;
Best Local Similarity 75.0%; Pred. No. 1.3e+02;
Matches 6; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2 SCCRSSRT 9
Db 114 SCCSSSLT 121

RESULT 43
US-11-096-568A-21472
; Sequence 21472, Application US/11096568A
; Publication No. US20060048240A1

; GENERAL INFORMATION:
; APPLICANT: Alexandrov, Nikolai et al.
; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides

; TITLE OF INVENTION: Theby
; FILE REFERENCE: 2750-1592PUS2
; CURRENT APPLICATION NUMBER: US/11/096,568A

; CURRENT FILING DATE: 2005-04-01
; NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 21472

; LENGTH: 177
; TYPE: PRT
; ORGANISM: Zea mays subsp. mays

; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)..(177)
; OTHER INFORMATION: Ceres Seq. ID no. 12404685

US-11-096-568A-21472
Query Match 64.0%; Score 32; DB 11; Length 177;
Best Local Similarity 62.5%; Pred. No. 1.5e+02;
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 2 SCCRSSRT 9
Db 156 SCCRTTPT 163

RESULT 44
US-11-072-512-3254
; Sequence 3254, Application US/11072512
; Publication No. US20060029945A1

; GENERAL INFORMATION:
; APPLICANT: ISOGAI, TAKAO
; APPLICANT: SUGIYAMA, TOMOYASU

; APPLICANT: OTSUKI, TETSUJI
; APPLICANT: WAKAMATSU, AI
; APPLICANT: SATO, HIROYUKI

; APPLICANT: ISHII, SHIZUKO
; APPLICANT: YAMAMOTO, JUN-ICHI
; APPLICANT: ISONO, YUUKO

; APPLICANT: HTO, YURI
; APPLICANT: OTSUKA, KAORU
; APPLICANT: NAGAI, KEIICHI

; APPLICANT: IRIE, RYOTARO
; APPLICANT: TAMECHIKA, ICHIRO
; APPLICANT: SEKI, NAOHICO

; APPLICANT: YOSHIKAWA, TSUTOMU
; APPLICANT: OTSUKA, MOTOKYUKI
; APPLICANT: NAGAHARA, KENJI
; APPLICANT: MASUHO, YASUHIKO

; TITLE OF INVENTION: Novel full length cDNA
; FILE REFERENCE: 084335-0191
; CURRENT APPLICATION NUMBER: US/11/072,512

; CURRENT FILING DATE: 2005-03-07
; PRIOR APPLICATION NUMBER: US 60/350,978
; PRIOR FILING DATE: 2002-01-25

; PRIOR APPLICATION NUMBER: JP 2001-379298
; PRIOR FILING DATE: 2001-11-05
; NUMBER OF SEQ ID NOS: 4096
; SOFTWARE: Patentin Ver. 2.1

; SEQ ID NO 3254
; LENGTH: 189
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-072-512-3254

Query Match 64.0%; Score 32; DB 11; Length 189;
Best Local Similarity 83.3%; Pred. No. 1.6e+02;
Matches 5; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 2 SCCRSS 7
Db 12 SCCRAS 17

RESULT 45
US-11-096-568A-26773
; Sequence 26773, Application US/11096568A
; Publication No. US20060048240A1

; GENERAL INFORMATION:
; APPLICANT: Alexandrov, Nikolai et al.
; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides

; TITLE OF INVENTION: Theby
; FILE REFERENCE: 2750-1592PUS2
; CURRENT APPLICATION NUMBER: US/11/096,568A

; CURRENT FILING DATE: 2005-04-01
; NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 26773

; LENGTH: 204
; TYPE: PRT
; ORGANISM: Zea mays subsp. mays

; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)..(204)
; OTHER INFORMATION: Ceres Seq. ID no. 13600327

US-11-096-568A-26773
Query Match 64.0%; Score 32; DB 11; Length 204;
Best Local Similarity 62.5%; Pred. No. 1.7e+02;
Matches 5; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 MSCCRSSR 8
Db 125 LSCRCR 132

RESULT 46
US-11-096-568A-1257
; Sequence 1257, Application US/11096568A
; Publication No. US20060048240A1

; GENERAL INFORMATION:
; APPLICANT: Alexandrov, Nikolai et al.
; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides

; TITLE OF INVENTION: Theby
; FILE REFERENCE: 2750-1592PUS2
; CURRENT APPLICATION NUMBER: US/11/096,568A

; CURRENT FILING DATE: 2005-04-01
; NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 1257

; LENGTH: 251
; TYPE: PRT
; ORGANISM: Zea mays subsp. mays

; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)..(251)
; OTHER INFORMATION: Ceres Seq. ID no. 13624031

US-11-096-568A-1257
Query Match 64.0%; Score 32; DB 11; Length 251;
Best Local Similarity 62.5%; Pred. No. 2e+02;
Matches 5; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 MSCCRSSR 8

Db 172 LSCRCR 179

RESULT 47
US-11-096-568A-1259
; Sequence 1259, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
; APPLICANT: Alexandrov, Nikolai et al.
; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
; FILE REFERENCE: 2750-1592PUS2
; CURRENT APPLICATION NUMBER: US/11/096,568A
; CURRENT FILING DATE: 2005-04-01
; NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 1259
; LENGTH: 251
; TYPE: PRT
; ORGANISM: Zea mays subsp. mays
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)..(251)
; OTHER INFORMATION: Ceres Seq. ID no. 16625722
US-11-096-568A-1259

Query Match 64.0%; Score 32; DB 11; Length 251;
Best Local Similarity 62.5%; Pred. No. 2e+02;
Matches 5; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 MSCRSSR 8
Db 172 LSCRCR 179

RESULT 48
US-11-096-568A-1256
; Sequence 1256, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
; APPLICANT: Alexandrov, Nikolai et al.
; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
; FILE REFERENCE: 2750-1592PUS2
; CURRENT APPLICATION NUMBER: US/11/096,568A
; CURRENT FILING DATE: 2005-04-01
; NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 1256
; LENGTH: 280
; TYPE: PRT
; ORGANISM: Zea mays subsp. mays
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)..(280)
; OTHER INFORMATION: Ceres Seq. ID no. 13624030
US-11-096-568A-1256

Query Match 64.0%; Score 32; DB 11; Length 280;
Best Local Similarity 62.5%; Pred. No. 2.2e+02;
Matches 5; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 MSCRSSR 8
Db 201 LSCRCR 208

RESULT 49
US-10-131-826A-432
; Sequence 432, Application US/10131826A
; Publication No. US20050245730A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Beresini, Maureen

; APPLICANT: DeForge, Laura
; APPLICANT: Desnoyers, Luc
; APPLICANT: Filvaroli, Ellen
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Geritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Sherwood, Steven
; APPLICANT: Smith, Victoria
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Matanabe, Colin K
; APPLICANT: Wood, William
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3330R1C128
; CURRENT APPLICATION NUMBER: US/10/131,826A
; CURRENT FILING DATE: 2002-04-24
; PRIOR APPLICATION NUMBER: 60/049911
; PRIOR FILING DATE: 1997-06-18
; PRIOR APPLICATION NUMBER: 60/056974
; PRIOR FILING DATE: 1997-08-26
; PRIOR APPLICATION NUMBER: 60/059113
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/059115
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/059117
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/059122
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/059184
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/059263
; PRIOR FILING DATE: 1997-09-18
; PRIOR APPLICATION NUMBER: 60/059352
; PRIOR FILING DATE: 1997-09-19
; PRIOR APPLICATION NUMBER: 60/059588
; PRIOR FILING DATE: 1997-09-19
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 550
; SEQ ID NO 432
; LENGTH: 346
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; ORGANISM: Homo Sapien
US-10-131-826A-432

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; Sequence 77, Application US/10967457
; Publication No. US20050244931A1
; GENERAL INFORMATION:
; APPLICANT: Human Genome Sciences, Inc.
; TITLE OF INVENTION: Albumin Fusion Proteins
; FILE REFERENCE: PFS45PCT
; CURRENT APPLICATION NUMBER: US/10/967,457
; CURRENT FILING DATE: 2004-10-19
; PRIOR APPLICATION NUMBER: US/09/833,041
; PRIOR FILING DATE: 2001-04-12
; PRIOR APPLICATION NUMBER: 60/229,358
; PRIOR FILING DATE: 2000-04-12
; PRIOR APPLICATION NUMBER: 60/256,931
; PRIOR FILING DATE: 2000-12-21

Tue May 9 09:28:33 2006

us-08-170-344-37.rapbn

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; PRIOR APPLICATION NUMBER: 60/199,384
; PRIOR FILING DATE: 2000-04-25
; NUMBER OF SEQ ID NOS: 90
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US-10-967-457-77

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Search completed: May 5, 2006, 08:18:41
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OM protein - protein search, using sw model

Run on: May 5, 2006, 06:24:27 ; Search time 26.75 Seconds
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Title: US-08-170-344-38
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Listing first 1000 summaries

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Pred. No. is the number of results predicted by chance to have a
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SUMMARIES

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248	30	56.6	22	2	US-10-612-818-8	Sequence 8, Appl	321	29	54.7	68	2	US-09-239-495F-7	Sequence 7, Appl
249	30	56.6	30	1	US-08-934-915-61	Sequence 61, Appl	322	29	54.7	69	1	US-08-690-011A-7	Sequence 7, Appl
250	30	56.6	30	1	US-08-934-915-62	Sequence 62, Appl	323	29	54.7	69	2	US-09-107-433-3601	Sequence 3601, Ap
251	30	56.6	48	1	US-08-466-285-5	Sequence 5, Appl	324	29	54.7	72	2	US-09-248-796A-21093	Sequence 21093, A
252	30	56.6	48	1	US-08-164-768-5	Sequence 5, Appl	325	29	54.7	73	2	US-09-583-110-3676	Sequence 3676, Ap
253	30	56.6	78	2	US-09-248-796A-24751	Sequence 24751, A	326	29	54.7	75	2	US-09-583-110-3700	Sequence 3700, Ap
254	30	56.6	124	2	US-09-107-532A-5336	Sequence 5336, Ap	327	29	54.7	78	2	US-09-583-110-4582	Sequence 4582, Ap
255	30	56.6	131	2	US-09-328-352-4188	Sequence 4188, A	328	29	54.7	79	2	US-09-621-976-6829	Sequence 6829, Ap
256	30	56.6	136	2	US-09-902-540-14803	Sequence 14803, A	329	29	54.7	80	2	US-09-583-110-4750	Sequence 4750, Ap
257	30	56.6	150	2	US-09-270-767-58388	Sequence 58388, A	330	29	54.7	81	2	US-09-107-433-2951	Sequence 2951, Ap
258	30	56.6	152	2	US-09-270-767-57007	Sequence 57007, A	331	29	54.7	82	2	US-09-299-495F-11	Sequence 11, Appl
259	30	56.6	209	2	US-09-270-767-43115	Sequence 43115, A	332	29	54.7	84	2	US-09-107-433-1194	Sequence 1194, Ap
260	30	56.6	227	2	US-09-485-885-16	Sequence 16, Appl	333	29	54.7	85	2	US-09-583-110-3572	Sequence 3572, Ap
261	30	56.6	227	2	US-09-328-352-5535	Sequence 5535, Ap	334	29	54.7	85	2	US-09-107-433-3987	Sequence 3987, Ap
262	30	56.6	233	2	US-09-488-847-143	Sequence 143, App	335	29	54.7	88	2	US-09-583-110-3160	Sequence 3160, Ap
263	30	56.6	240	2	US-09-270-767-44656	Sequence 44656, A	336	29	54.7	91	2	US-09-583-110-4704	Sequence 4704, Ap
264	30	56.6	261	2	US-08-117-083-13	Sequence 13, Appl	337	29	54.7	92	2	US-09-299-495F-9	Sequence 9, Appl
265	30	56.6	272	1	US-09-328-352-4693	Sequence 4693, Ap	338	29	54.7	93	1	US-08-690-011A-9	Sequence 9, Appl
266	30	56.6	307	2	US-08-225-477B-3	Sequence 3, Appl	339	29	54.7	95	2	US-09-107-433-3782	Sequence 3782, Ap
267	30	56.6	329	1	US-08-225-477B-3	Sequence 3, Appl	340	29	54.7	97	2	US-09-673-395A-195	Sequence 25354, A
268	30	56.6	329	4	US-09-252-991A-24654	Sequence 24654, A	341	29	54.7	106	2	US-09-248-796A-25254	Sequence 25254, A
269	30	56.6	337	2	US-09-270-767-39877	Sequence 39877, A	342	29	54.7	108	2	US-09-848-798-66	Sequence 66, Appl
270	30	56.6	375	2	US-09-270-767-55094	Sequence 55094, A	343	29	54.7	108	2	US-09-583-110-4613	Sequence 4613, Ap
271	30	56.6	380	2	US-09-270-767-41762	Sequence 41762, A	344	29	54.7	111	2	US-09-107-433-2634	Sequence 2634, Ap
272	30	56.6	388	2	US-09-485-885-23	Sequence 23, Appl	345	29	54.7	112	2	US-09-107-433-2630	Sequence 2630, Ap
273	30	56.6	398	2	US-09-198-452A-228	Sequence 228, App	346	29	54.7	115	2	US-09-270-767-51247	Sequence 51247, A
274	30	56.6	398	2	US-09-438-185A-214	Sequence 214, App	347	29	54.7	115	2	US-09-107-532A-5779	Sequence 5779, Ap
275	30	56.6	398	2	US-09-252-991A-24886	Sequence 24886, A	348	29	54.7	123	2	US-09-134-001C-5285	Sequence 5285, Ap
276	30	56.6	422	2	US-09-543-681A-7248	Sequence 7248, Ap	349	29	54.7	125	2	US-09-513-999C-6763	Sequence 6763, Ap
277	30	56.6	460	2	US-09-270-767-43055	Sequence 43055, A	350	29	54.7	126	2	US-09-583-110-4335	Sequence 4335, Ap
278	30	56.6	487	2	US-10-101-464A-929	Sequence 929, App	351	29	54.7	126	2	US-09-583-110-40186	Sequence 40186, A
279	30	56.6	523	2	US-09-107-464A-929	Sequence 929, App	352	29	54.7	126	2	US-09-270-767-45402	Sequence 45402, A
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282	30	56.6	640	2	US-09-338-185A-795	Sequence 795, App	355	29	54.7	128	2	US-10-376-397B-6	Sequence 397B-6
283	30	56.6	686	2	US-09-949-016-11203	Sequence 11203, A	356	29	54.7	131	2	US-09-376-397B-6	Sequence 397B-6
284	30	56.6	686	2	US-09-949-016-11203	Sequence 11203, A	357	29	54.7	131	2	US-09-270-767-35787	Sequence 35787, A
285	30	56.6	704	2	US-09-949-016-11418	Sequence 11418, A	358	29	54.7	139	2	US-09-543-681A-6616	Sequence 6616, Ap
286	30	56.6	705	2	US-09-949-002-557	Sequence 557, App	359	29	54.7	156	2	US-09-438-185A-73	Sequence 73, Appl
287	30	56.6	705	2	US-09-949-002-557	Sequence 557, App	360	29	54.7	157	2	US-09-583-110-5282	Sequence 5282, Ap
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289	30	56.6	791	2	US-09-252-991A-27312	Sequence 27312, A	362	29	54.7	170	2	US-09-583-110-4533	Sequence 4533, Ap
290	30	56.6	832	2	US-09-634-252A-4	Sequence 4, Appl	363	29	54.7	171	2	US-09-107-433-4733	Sequence 4733, Ap
291	30	56.6	881	2	US-10-771-708-12	Sequence 12, Appl	364	29	54.7	171	2	US-09-252-991A-19501	Sequence 19501, A
292	30	56.6	951	2	US-09-328-352-4167	Sequence 4167, Ap	365	29	54.7	176	1	US-08-031-148-2	Sequence 148-2
293	30	56.6	1439	2	US-09-543-681A-7560	Sequence 7560, Ap	366	29	54.7	176	1	US-08-306-078-1	Sequence 306-078-1
294	30	56.6	2415	2	US-09-949-002-314	Sequence 314, App	367	29	54.7	176	1	US-08-415-838-2	Sequence 415-838-2
295	30	56.6	2415	2	US-09-949-002-398	Sequence 398, App	368	29	54.7	176	1	US-09-205-159-2	Sequence 205-159-2
296	30	56.6	2743	2	US-10-037-182-36	Sequence 36, Appl	369	29	54.7	176	1	US-09-446-907-1	Sequence 446-907-1
297	30	56.6	3597	2	US-10-037-417-6	Sequence 6, Appl	370	29	54.7	176	1	US-09-107-433-4216	Sequence 4216, Ap
298	30	56.6	3600	2	US-10-037-417-2	Sequence 2, Appl	371	29	54.7	181	1	US-08-933-750C-8	Sequence 8, Appl
299	30	56.6	3695	2	US-10-037-182-2	Sequence 2, Appl	372	29	54.7	188	1	US-09-270-767-31789	Sequence 31789, A
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301	29	54.7	12	1	US-07-616-910-50	Sequence 50, Appl	374	29	54.7	213	2	US-09-583-110-32111	Sequence 32111, A
302	29	54.7	12	4	PCT-US91-08497-50	Sequence 50, Appl	375	29	54.7	213	2	US-09-270-767-46297	Sequence 46297, A
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304	29	54.7	18	1	US-08-399-411-71	Sequence 71, Appl	377	29	54.7	216	2	US-09-107-433-4216	Sequence 4216, Ap
305	29	54.7	18	2	US-08-516-859A-71	Sequence 71, Appl	378	29	54.7	216	2	US-09-107-433-4216	Sequence 4216, Ap
306	29	54.7	18	2	US-09-586-472-71	Sequence 71, Appl	379	29	54.7	216	2	US-09-107-433-4216	Sequence 4216, Ap
307	29	54.7	18	2	US-09-528-706-71	Sequence 71, Appl	380	29	54.7	216	2	US-09-107-433-4216	Sequence 4216, Ap
308	29	54.7	25	2	US-09-270-767-59918	Sequence 59918, A	381	29	54.7	216	2	US-09-107-433-4216	Sequence 4216, Ap
309	29	54.7	43	2	US-09-583-110-4671	Sequence 4671, Ap	382	29	54.7	216	2	US-09-107-433-4216	Sequence 4216, Ap
310	29	54.7	60	2	US-09-583-110-3374	Sequence 3374, Ap	383	29	54.7	216	2	US-09-107-433-4216	Sequence 4216, Ap
311	29	54.7	61	2	US-09-583-110-5018	Sequence 5018, Ap	384	29	54.7	216	2	US-09-107-433-4216	Sequence 4216, Ap
312	29	54.7	61	2	US-09-583-110-5066	Sequence 5066, Ap	385	29	54.7	216	2	US-09-107-433-4216	Sequence 4216, Ap
313	29	54.7	61	2	US-09-107-433-2980	Sequence 2980, Ap	386	29	54.7	216	2	US-09-107-433-4216	Sequence 4216, Ap
314	29	54.7	61	2	US-09-107-433-4591	Sequence 4591, Ap	387	29	54.7	216	2	US-09-107-433-4216	Sequence 4216, Ap
315	29	54.7	61	2	US-09-107-433-5077	Sequence 5077, Ap	388	29	54.7	216	2	US-09-107-433-4216	Sequence 4216, Ap
316	29	54.7	62	2	US-09-583-110-4247	Sequence 4247, Ap	389	29	54.7	216	2	US-09-107-433-4216	Sequence 4216, Ap
317	29	54.7	62	2	US-09-107-433-3997	Sequence 3997, Ap	390	29	54.7	216	2	US-09-107-433-4216	Sequence 4216, Ap
318	29	54.7	62	2	US-09-583-110-3895	Sequence 3895, Ap	391	29	54.7	216	2	US-09-107-433-4216	Sequence 4216, Ap
319	29	54.7	66	2	US-09-107-433-3711	Sequence 3711, Ap	392	29	54.7	216	2	US-09-107-433-4216	Sequence 4216, Ap

393	29	54.7	281	2	US-09-522-714-2	Sequence 2, Appl1	466	29	54.7	1184	1	US-08-446-010B-20	Sequence 20, Appl1
394	29	54.7	293	2	US-09-543-681A-5949	Sequence 5949, Ap	467	29	54.7	1184	1	US-08-805-445-20	Sequence 20, Appl1
395	29	54.7	293	2	US-09-489-039A-9862	Sequence 9862, Ap	468	29	54.7	1184	1	US-08-064-067D-20	Sequence 20, Appl1
396	29	54.7	294	2	US-09-489-039A-9292	Sequence 9292, Ap	469	29	54.7	1184	1	US-09-066-208-20	Sequence 20, Appl1
397	29	54.7	303	2	US-09-270-767-41512	Sequence 41512, A	470	29	54.7	1187	1	US-08-357-558-8	Sequence 8, Appl1
398	29	54.7	315	2	US-09-949-016-7832	Sequence 7832, Ap	471	29	54.7	1187	1	US-08-097-997A-13	Sequence 13, Appl1
399	29	54.7	319	2	US-09-533-029-38	Sequence 38, Appl1	472	29	54.7	1187	1	US-09-003-289-8	Sequence 8, Appl1
400	29	54.7	327	1	US-07-684-965-6	Sequence 6, Appl1	473	29	54.7	1187	2	US-08-665-574C-13	Sequence 13, Appl1
401	29	54.7	327	2	US-09-215-098-5	Sequence 5, Appl1	474	29	54.7	1187	2	US-08-946-994-13	Sequence 13, Appl1
402	29	54.7	327	2	US-09-252-658-6	Sequence 6, Appl1	475	29	54.7	1187	2	US-09-972-800A-18	Sequence 18, Appl1
403	29	54.7	327	2	US-09-949-016-11202	Sequence 11202, A	476	29	54.7	1187	4	PCT-US95-16435-8	Sequence 8, Appl1
404	29	54.7	360	2	US-09-907-794A-213	Sequence 213, App	477	29	54.7	1235	1	US-08-680-326-36	Sequence 36, Appl1
405	29	54.7	360	2	US-09-905-125A-213	Sequence 213, App	478	29	54.7	1235	2	US-09-904-065-6	Sequence 6, Appl1
406	29	54.7	360	2	US-09-902-775A-213	Sequence 213, App	479	29	54.7	1235	2	US-09-904-065-8	Sequence 8, Appl1
407	29	54.7	360	2	US-09-906-700-213	Sequence 213, App	480	29	54.7	1235	2	US-09-904-065-10	Sequence 10, Appl1
408	29	54.7	360	2	US-09-903-603A-213	Sequence 213, App	481	29	54.7	1235	2	US-09-904-065-16	Sequence 16, Appl1
409	29	54.7	360	2	US-09-904-920A-213	Sequence 213, App	482	29	54.7	1235	2	US-09-904-065-17	Sequence 17, Appl1
410	29	54.7	360	2	US-09-909-064-213	Sequence 213, App	483	29	54.7	1235	2	US-09-904-065-18	Sequence 18, Appl1
411	29	54.7	360	2	US-09-905-381A-213	Sequence 213, App	484	29	54.7	1235	2	US-09-904-065-19	Sequence 19, Appl1
412	29	54.7	360	2	US-09-906-618-213	Sequence 213, App	485	29	54.7	1337	2	US-09-538-092-622	Sequence 622, App
413	29	54.7	360	2	US-09-906-646-213	Sequence 213, App	486	29	53.8	18	2	US-09-620-091-207	Sequence 207, App
414	29	54.7	360	2	US-09-904-462-213	Sequence 213, App	487	28.5	53.8	184	2	US-09-270-767-66275	Sequence 46275, A
415	29	54.7	360	2	US-09-902-736A-213	Sequence 213, App	488	28	52.8	38	1	US-08-859-201-9	Sequence 9, Appl1
416	29	54.7	360	2	US-09-906-722A-213	Sequence 213, App	489	28	52.8	38	1	US-08-612-840A-1	Sequence 1, Appl1
417	29	54.7	377	2	US-09-902-540-13933	Sequence 13933, A	490	28	52.8	45	2	US-10-178-213-129	Sequence 129, App
418	29	54.7	385	2	US-09-491-557-20	Sequence 20, Appl1	491	28	52.8	51	2	US-10-178-213-132	Sequence 132, App
419	29	54.7	395	2	US-10-104-047-3413	Sequence 3413, Ap	492	28	52.8	51	2	US-08-331-625A-6	Sequence 6, Appl1
420	29	54.7	400	1	US-08-447-500-6	Sequence 6, Appl1	493	28	52.8	51	2	US-09-424-151-6	Sequence 6, Appl1
421	29	54.7	400	1	US-08-454-097-6	Sequence 6, Appl1	494	28	52.8	51	2	US-09-972-484-6	Sequence 27, Appl1
422	29	54.7	400	1	US-08-453-866-6	Sequence 6, Appl1	495	28	52.8	60	2	US-08-331-625A-27	Sequence 27, Appl1
423	29	54.7	400	2	US-08-185-359-6	Sequence 2, Appl1	496	28	52.8	60	2	US-09-494-151-27	Sequence 27, Appl1
424	29	54.7	431	1	US-07-783-705A-2	Sequence 2, Appl1	497	28	52.8	60	2	US-09-972-484-27	Sequence 27, Appl1
425	29	54.7	455	2	US-09-710-279-2548	Sequence 2648, Ap	498	28	52.8	63	2	US-09-248-796A-28013	Sequence 28013, A
426	29	54.7	460	2	US-09-252-991A-23461	Sequence 23461, A	499	28	52.8	64	2	US-09-583-681A-5448	Sequence 5448, Ap
427	29	54.7	461	2	US-09-198-452A-924	Sequence 924, App	500	28	52.8	64	2	US-09-583-110-891	Sequence 2891, Ap
428	29	54.7	462	2	US-09-134-001C-4300	Sequence 4300, Ap	501	28	52.8	68	2	US-09-583-110-4626	Sequence 4626, Ap
429	29	54.7	472	2	US-09-438-185A-858	Sequence 858, App	502	28	52.8	68	2	US-09-107-433-1523	Sequence 4523, Ap
430	29	54.7	488	1	US-08-243-542-1	Sequence 1, Appl1	503	28	52.8	69	2	US-09-540-236-1360	Sequence 3160, Ap
431	29	54.7	488	1	US-08-477-407-1	Sequence 1, Appl1	504	28	52.8	69	2	US-09-107-433-1336	Sequence 3336, Ap
432	29	54.7	488	1	US-08-484-35-1	Sequence 1, Appl1	505	28	52.8	71	2	US-09-583-110-4283	Sequence 4283, Ap
433	29	54.7	513	2	US-09-543-681A-5187	Sequence 5187, Ap	506	28	52.8	71	2	US-09-107-433-1214	Sequence 3214, Ap
434	29	54.7	517	2	US-09-198-452A-446	Sequence 446, App	507	28	52.8	72	2	US-09-927-738-19	Sequence 19, Appl1
435	29	54.7	521	2	US-09-438-185A-429	Sequence 429, App	508	28	52.8	75	2	US-09-583-110-1165	Sequence 3165, Ap
436	29	54.7	523	2	US-09-949-016-11540	Sequence 11540, A	509	28	52.8	75	2	US-08-936-165A-392	Sequence 392, App
437	29	54.7	524	1	US-08-243-542-2	Sequence 2, Appl1	510	28	52.8	75	2	US-10-178-213-128	Sequence 128, App
438	29	54.7	524	1	US-08-477-407-2	Sequence 2, Appl1	511	28	52.8	76	2	US-10-178-213-131	Sequence 131, App
439	29	54.7	524	1	US-08-484-355-2	Sequence 2, Appl1	512	28	52.8	76	2	US-09-270-767-80450	Sequence 40450, A
440	29	54.7	528	2	US-09-543-681A-5922	Sequence 5922, Ap	513	28	52.8	79	2	US-09-270-767-55666	Sequence 55666, A
441	29	54.7	531	1	US-07-862-588B-7	Sequence 7, Appl1	514	28	52.8	79	2	US-09-248-796A-23876	Sequence 23876, A
442	29	54.7	531	2	US-09-380-420C-2	Sequence 2, Appl1	515	28	52.8	82	2	US-09-107-433-1615	Sequence 3615, Ap
443	29	54.7	531	2	US-09-899-642A-2	Sequence 2, Appl1	516	28	52.8	91	2	US-09-248-796A-22093	Sequence 22093, A
444	29	54.7	539	2	US-09-107-433-2719	Sequence 2719, Ap	517	28	52.8	92	2	US-09-107-532A-7109	Sequence 7109, Ap
445	29	54.7	566	2	US-09-270-767-57745	Sequence 57745, A	518	28	52.8	92	2	US-09-583-110-1938	Sequence 3938, Ap
446	29	54.7	670	1	US-08-243-542-3	Sequence 3, Appl1	519	28	52.8	94	2	US-09-538-092-130	Sequence 130, App
447	29	54.7	670	1	US-08-477-407-3	Sequence 3, Appl1	520	28	52.8	101	2	US-09-328-532-7266	Sequence 7266, Ap
448	29	54.7	670	1	US-08-484-355-3	Sequence 3, Appl1	521	28	52.8	101	2	US-09-270-767-57846	Sequence 57846, A
449	29	54.7	691	1	US-08-405-648A-2	Sequence 2, Appl1	522	28	52.8	113	2	US-09-621-976-4026	Sequence 4026, Ap
450	29	54.7	693	2	US-09-538-092-534	Sequence 534, App	523	28	52.8	114	2	US-09-513-999C-5753	Sequence 5753, Ap
451	29	54.7	753	2	US-09-328-352-5412	Sequence 5412, App	524	28	52.8	126	1	US-08-612-840A-2	Sequence 2, Appl1
452	29	54.7	760	2	US-09-252-991A-27790	Sequence 27790, A	525	28	52.8	127	1	US-07-614-443A-1	Sequence 1, Appl1
453	29	54.7	769	1	US-08-243-542-4	Sequence 4, Appl1	526	28	52.8	127	1	US-08-294-689-1	Sequence 1, Appl1
454	29	54.7	769	1	US-08-477-407-4	Sequence 4, Appl1	527	28	52.8	127	1	US-08-481-676-1	Sequence 1, Appl1
455	29	54.7	769	1	US-08-484-355-4	Sequence 4, Appl1	528	28	52.8	129	2	US-09-543-681A-6111	Sequence 6111, Ap
456	29	54.7	769	2	US-09-949-016-9605	Sequence 9605, Ap	529	28	52.8	129	2	US-09-270-767-38040	Sequence 38040, A
457	29	54.7	769	2	US-09-949-016-9606	Sequence 9606, Ap	530	28	52.8	129	2	US-09-270-767-53257	Sequence 53257, A
458	29	54.7	823	2	US-09-270-767-42450	Sequence 42450, A	531	28	52.8	134	2	US-09-621-976-6645	Sequence 6645, Ap
459	29	54.7	826	2	US-09-949-016-9212	Sequence 9212, Ap	532	28	52.8	143	2	US-09-270-767-33302	Sequence 33302, A
460	29	54.7	826	2	US-09-949-016-9213	Sequence 9213, Ap	533	28	52.8	143	2	US-09-270-767-48519	Sequence 48519, A
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463	29	54.7	1009	1	US-08-460-626-1	Sequence 1, Appl1	536	28	52.8	146	2	US-09-270-767-49568	Sequence 54968, A
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465	29	54.7	1184	1	US-08-446-038B-20	Sequence 20, Appl1	538	28	52.8	149	2	US-09-969-763-3	Sequence 3, Appl1

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554	28	52.8	201	2	US-09-494-151-58	Sequence 58, Appl	627	28	52.8	364	2	US-09-291-046-9	Sequence 9, Appl
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561	28	52.8	206	2	US-09-270-767-56449	Sequence 56449, A	634	28	52.8	391	2	US-09-583-110-3326	Sequence 3326, Ap
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568	28	52.8	232	2	US-09-248-796A-25485	Sequence 25485, A	641	28	52.8	427	2	US-09-949-016-7921	Sequence 7921, Ap
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570	28	52.8	245	2	US-09-710-279-2910	Sequence 2910, Ap	643	28	52.8	462	2	US-09-489-039A-7603	Sequence 15709, A
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572	28	52.8	249	2	US-09-134-001C-5538	Sequence 5538, Ap	645	28	52.8	463	2	US-09-949-016-5974	Sequence 5974, Ap
573	28	52.8	249	2	US-08-331-625A-41	Sequence 41, Appl	646	28	52.8	478	2	US-09-543-681A-8321	Sequence 8321, Ap
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577	28	52.8	259	2	US-09-929-016-10954	Sequence 10954, A	650	28	52.8	495	2	US-09-991-555-19	Sequence 19, Appl
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581	28	52.8	275	2	US-09-466-778-12	Sequence 12, Appl	654	28	52.8	507	2	US-09-949-016-7883	Sequence 17481, A
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586	28	52.8	277	2	US-09-000-179-1	Sequence 1, Appl	659	28	52.8	531	2	US-09-543-681A-1552	Sequence 1552, Ap
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593	28	52.8	290	2	US-09-555-908-8	Sequence 8, Appl	666	28	52.8	532	2	US-09-908-322-13	Sequence 13, Appl
594	28	52.8	296	2	US-09-655-908-10	Sequence 10, Appl	667	28	52.8	532	2	US-09-908-322-13	Sequence 13, Appl
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596	28	52.8	311	2	US-09-377-716-18	Sequence 18, Appl	669	28	52.8	532	2	US-09-908-322-13	Sequence 13, Appl
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598	28	52.8	312	2	US-09-169-787-69	Sequence 69, Appl	671	28	52.8	532	2	US-09-908-322-13	Sequence 13, Appl
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607	28	52.8	342	2	US-09-149-476-695	Sequence 695, App	680	28	52.8	532	2	US-09-908-322-13	Sequence 13, Appl
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686	28	52.8	834	1	US-08-491-357-2	Sequence 2, Appli	759	27	50.9	11	1	US-08-922-048-118	Sequence 118, App
687	28	52.8	834	2	US-08-968-633-2	Sequence 2, Appli	760	27	50.9	11	1	US-08-922-048-119	Sequence 119, App
688	28	52.8	834	2	US-09-196-466-2	Sequence 2, Appli	761	27	50.9	11	1	US-08-922-048-120	Sequence 120, App
689	28	52.8	834	2	US-09-669-459A-2	Sequence 2, Appli	762	27	50.9	11	1	US-08-922-048-121	Sequence 121, App
690	28	52.8	834	4	PCT-US96-10823-2	Sequence 2, Appli	763	27	50.9	11	2	US-09-111-661C-134	Sequence 134, App
691	28	52.8	855	2	US-09-149-934-1	Sequence 1, Appli	764	27	50.9	11	2	US-09-111-661C-135	Sequence 135, App
692	28	52.8	889	2	US-09-543-681A-4407	Sequence 4407, Ap	765	27	50.9	11	2	US-09-111-661C-136	Sequence 136, App
693	28	52.8	1042	2	US-09-959-392-2	Sequence 2, Appli	766	27	50.9	11	2	US-09-111-661C-137	Sequence 137, App
694	28	52.8	1101	2	US-08-331-625A-52	Sequence 52, Appli	767	27	50.9	11	2	US-09-701-588C-135	Sequence 135, App
695	28	52.8	1101	2	US-08-331-625A-54	Sequence 54, Appli	768	27	50.9	11	4	PCT-US96-06270-118	Sequence 118, App
696	28	52.8	1101	2	US-09-494-151-52	Sequence 52, Appli	769	27	50.9	11	4	PCT-US96-06270-119	Sequence 119, App
697	28	52.8	1101	2	US-09-494-151-54	Sequence 54, Appli	770	27	50.9	11	4	PCT-US96-06270-120	Sequence 120, App
698	28	52.8	1101	2	US-09-972-484-52	Sequence 52, Appli	771	27	50.9	11	4	PCT-US96-06270-121	Sequence 121, App
699	28	52.8	1101	2	US-09-972-484-54	Sequence 54, Appli	772	27	50.9	12	2	US-09-869-003-18	Sequence 18, App
700	28	52.8	1113	2	US-09-959-392-4	Sequence 4, Appli	773	27	50.9	12	2	US-08-433-318A-102	Sequence 102, App
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702	28	52.8	1235	2	US-09-949-016-8456	Sequence 8456, Ap	775	27	50.9	14	1	US-08-433-318A-104	Sequence 104, App
703	28	52.8	1433	1	US-08-308-872B-2	Sequence 2, Appli	776	27	50.9	14	1	US-08-433-318A-105	Sequence 105, App
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705	28	52.8	1452	2	US-09-494-151-2	Sequence 2, Appli	778	27	50.9	14	1	US-08-433-318A-166	Sequence 166, App
706	28	52.8	1452	2	US-09-972-484-2	Sequence 2, Appli	779	27	50.9	14	1	US-08-433-318A-167	Sequence 167, App
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710	28	52.8	1454	2	US-08-392-459-22	Sequence 22, Appli	783	27	50.9	14	1	US-08-922-048-104	Sequence 104, App
711	28	52.8	1454	2	US-08-392-459-26	Sequence 26, Appli	784	27	50.9	14	1	US-08-922-048-105	Sequence 105, App
712	28	52.8	1454	2	US-08-392-459-32	Sequence 32, Appli	785	27	50.9	14	1	US-08-922-048-165	Sequence 165, App
713	28	52.8	1454	2	US-09-854-799-22	Sequence 22, Appli	786	27	50.9	14	1	US-08-922-048-166	Sequence 166, App
714	28	52.8	1454	2	US-09-854-799-26	Sequence 26, Appli	787	27	50.9	14	1	US-08-922-048-167	Sequence 167, App
715	28	52.8	1454	2	US-09-854-799-32	Sequence 32, Appli	788	27	50.9	14	1	US-08-922-048-168	Sequence 168, App
716	28	52.8	1454	4	PCT-US91-08525-32	Sequence 32, Appli	789	27	50.9	14	2	US-09-111-661C-118	Sequence 118, App
717	28	52.8	1454	4	PCT-US91-08525-36	Sequence 36, Appli	790	27	50.9	14	2	US-09-111-661C-119	Sequence 119, App
718	28	52.8	1454	4	PCT-US91-08525-32	Sequence 32, Appli	791	27	50.9	14	2	US-09-111-661C-120	Sequence 120, App
719	28	52.8	1454	4	PCT-US93-04384-2	Sequence 2, Appli	792	27	50.9	14	2	US-09-111-661C-121	Sequence 121, App
720	28	52.8	1454	4	PCT-US93-04384-8	Sequence 8, Appli	793	27	50.9	14	2	US-09-111-661C-181	Sequence 181, App
721	28	52.8	1454	4	PCT-US93-04384-12	Sequence 12, Appli	794	27	50.9	14	2	US-09-111-661C-182	Sequence 182, App
722	28	52.8	1454	4	PCT-US93-04384-16	Sequence 16, Appli	795	27	50.9	14	2	US-09-111-661C-183	Sequence 183, App
723	28	52.8	1454	4	PCT-US93-04384-43	Sequence 43, Appli	796	27	50.9	14	2	US-09-111-661C-184	Sequence 184, App
724	28	52.8	1454	4	PCT-US93-04384-44	Sequence 44, Appli	797	27	50.9	14	4	PCT-US96-06270-102	Sequence 102, App
725	28	52.8	1454	4	PCT-US93-04384-45	Sequence 45, Appli	798	27	50.9	14	4	PCT-US96-06270-103	Sequence 103, App
726	28	52.8	1454	4	PCT-US93-04384-46	Sequence 46, Appli	799	27	50.9	14	4	PCT-US96-06270-104	Sequence 104, App
727	28	52.8	1454	4	PCT-US93-04384-47	Sequence 47, Appli	800	27	50.9	14	4	PCT-US96-06270-105	Sequence 105, App
728	28	52.8	1454	4	PCT-US93-04384-48	Sequence 48, Appli	801	27	50.9	14	4	PCT-US96-06270-165	Sequence 165, App
729	28	52.8	1520	2	US-09-252-991A-17501	Sequence 17501, A	802	27	50.9	14	4	PCT-US96-06270-166	Sequence 166, App
730	28	52.8	1627	2	US-09-540-236-3533	Sequence 72, Appli	803	27	50.9	14	4	PCT-US96-06270-167	Sequence 167, App
731	28	52.8	1728	2	US-10-037-417-72	Sequence 13, Appli	804	27	50.9	14	4	PCT-US96-06270-168	Sequence 168, App
732	28	52.8	1882	2	US-09-369-364A-13	Sequence 6930, Ap	805	27	50.9	15	1	US-08-433-318A-87	Sequence 87, Appli
733	28	52.8	2169	2	US-09-949-016-6930	Sequence 6930, Ap	806	27	50.9	15	1	US-08-433-318A-87	Sequence 87, Appli
734	27.5	51.9	107	2	US-09-710-279-1748	Sequence 1748, Ap	807	27	50.9	15	1	US-08-433-318A-88	Sequence 88, Appli
735	27.5	51.9	445	2	US-09-134-001C-4948	Sequence 4948, Ap	808	27	50.9	15	1	US-08-433-318A-89	Sequence 89, Appli
736	27	50.9	9	2	US-10-365-908-26	Sequence 26, Appli	809	27	50.9	15	1	US-08-433-318A-150	Sequence 150, App
737	27	50.9	10	1	US-08-433-318A-134	Sequence 134, App	810	27	50.9	15	1	US-08-433-318A-151	Sequence 151, App
738	27	50.9	10	1	US-08-433-318A-135	Sequence 135, App	811	27	50.9	15	1	US-08-433-318A-152	Sequence 152, App
739	27	50.9	10	1	US-08-433-318A-136	Sequence 136, App	812	27	50.9	15	1	US-08-922-048-85	Sequence 85, Appli
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754	27	50.9	10	4	PCT-US96-06270-137	Sequence 137, App	827	27	50.9	15	4	PCT-US96-06270-87	Sequence 87, Appli
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756	27	50.9	11	1	US-08-433-318A-119	Sequence 119, App	829	27	50.9	15	4	PCT-US96-06270-89	Sequence 89, Appli
757	27	50.9	11	1	US-08-433-318A-120	Sequence 120, App	830	27	50.9	15	4	PCT-US96-06270-150	Sequence 150, App

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ALIGNMENTS

RESULT 1
US-08-075-541D-45
; Sequence 45, Application US/08075541D
; Patent No. 6183745
; GENERAL INFORMATION:
; APPLICANT: TINDLE, ROBERT
; APPLICANT: FERNANDO, GERMAIN
; APPLICANT: FRAZER, IAN
; TITLE OF INVENTION: SUBUNIT PAPILLOMA VIRUS VACCINE AND
; TITLE OF INVENTION: PEPTIDES FOR USE THEREIN
; NUMBER OF SEQUENCES: 56
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: PANITCH SCHWARZE JACOBS & NADEL, P.C.
; STREET: 1601 MARKET STREET, 36TH FLOOR
; CITY: PHILADELPHIA
; STATE: PENNSYLVANIA
; COUNTRY: USA
; ZIP: 19103-2398
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/075,541D
; FILING DATE: 10-JUN-1993
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: AU pk 3876
; FILING DATE: 12-DEC-1990
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: pct/au91/00575
; FILING DATE: 12-DEC-1991
; ATTORNEY/AGENT INFORMATION:
; NAME: NADEL, ALAN S
; REGISTRATION NUMBER: 27,363
; REFERENCE/DOCKET NUMBER: 8795-4
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 215-567-2020
; TELEFAX: 215-567-2991
; INFORMATION FOR SEQ ID NO: 45:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 18 amino acids
; TYPE: amino acid

; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-08-075-541D-45

Query Match 100.0%; Score 53; DB 2; Length 18;
Best Local Similarity 100.0%; Pred. No. 0.0042;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TTDLXCYEQ 9
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Db 8 TTDLXCYEQ 16

RESULT 2
US-08-934-915-47
; Sequence 47, Application US/08934915
; Patent No. 5932412
; GENERAL INFORMATION:
; APPLICANT: DILLNER, JOAKIM
; APPLICANT: DILLNER, LENA
; APPLICANT: CHENG, HWEE-MING
; TITLE OF INVENTION: SYNTHETIC PEPTIDES OF HUMAN
; TITLE OF INVENTION: PAPILLOMAVIRUS 1, 5, 6, 8,
; TITLE OF INVENTION: 11, 16, 18, 31, 33 AND 56,
; TITLE OF INVENTION: USEFUL IN IMMUNOASSAY FOR
; TITLE OF INVENTION: DIAGNOSTIC PURPOSES
; NUMBER OF SEQUENCES: 193
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MASON & ASSOCIATES, P.A.
; STREET: 17757 U.S. HWY. 19 NORTH, SUITE 500
; CITY: CLEARWATER
; STATE: FLORIDA
; COUNTRY: U.S.A.
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: Windows 3.0
; SOFTWARE: Microsoft Word 6.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/934,915
; FILING DATE: 22-SEP-1997
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 07/949,836
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: LOUISE A. Foutch
; REGISTRATION NUMBER: 37,133
; REFERENCE/DOCKET NUMBER: 1946.6
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 813-538-3800
; TELEFAX: 813-538-3820
; TELEX:
; INFORMATION FOR SEQ ID NO: 47:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-08-934-915-47

Query Match 100.0%; Score 53; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.0046;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TTDLXCYEQ 9
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Db 3 TTDLXCYEQ 11

RESULT 3
US-08-075-541D-46

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; Sequence 46, Application US/08075541D
; Patent No. 6183745
; GENERAL INFORMATION:
; APPLICANT: TINDLE, ROBERT
; APPLICANT: PERMANO, GERMAIN
; APPLICANT: PRAZER, IAN
; TITLE OF INVENTION: SUBUNIT PAPILLOMA VIRUS VACCINE AND
; NUMBER OF SEQUENCES: 56
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: PANITCH SCHWARZE JACOBS & NADEL, P.C.
; STREET: 1601 MARKET STREET, 36TH FLOOR
; CITY: PHILADELPHIA
; STATE: PENNSYLVANIA
; COUNTRY: USA
; ZIP: 19103-2398

; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/075,541D
; FILING DATE: 10-JUN-1993
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: AU pk 3876
; FILING DATE: 12-DEC-1990
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/au91/00575
; FILING DATE: 12-DEC-1991
; ATTORNEY/AGENT INFORMATION:
; NAME: NADEL, ALAN S
; REGISTRATION NUMBER: 27,363
; REFERENCE/DOCKET NUMBER: 8795-4
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 215-567-2020
; TELEFAX: 215-567-2991
; INFORMATION FOR SEQ ID NO: 46:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20 amino acids
; TYPE: amino acid
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; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; US-08-075-541D-46

Query Match          100.0%; Score 53; DB 2; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.0046;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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DB      2 TTDLVCEYEQ 10

RESULT 4
US-09-980-177A-70
; Sequence 70, Application US/09980177A
; Patent No. 6838084
; GENERAL INFORMATION:
; APPLICANT: Jochmus, Ingrid
; APPLICANT: Nieland, John
; TITLE OF INVENTION: Cytotoxic T-Cell Epitopes of the
; TITLE OF INVENTION: Papilloma Virus Li-Protein and Use Thereof in Diagnosis and
; FILE REFERENCE: 50125/036001
; CURRENT APPLICATION NUMBER: US/09/980,177A
; CURRENT FILING DATE: 2001-11-29
; PRIOR APPLICATION NUMBER: PCT/EP00/05006
; PRIOR FILING DATE: 2000-05-31
; PRIOR APPLICATION NUMBER: DE 19925199.1
; PRIOR FILING DATE: 1999-06-01
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; NUMBER OF SEQ ID NOS: 77
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 70
; LENGTH: 20
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
; US-09-980-177A-70

Query Match          100.0%; Score 53; DB 2; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.0046;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 TTDLVCEYEQ 9
DB      8 TTDLVCEYEQ 16

RESULT 5
US-08-075-541D-36
; Sequence 36, Application US/08075541D
; Patent No. 6183745
; GENERAL INFORMATION:
; APPLICANT: TINDLE, ROBERT
; APPLICANT: PERMANO, GERMAIN
; APPLICANT: PRAZER, IAN
; TITLE OF INVENTION: SUBUNIT PAPILLOMA VIRUS VACCINE AND
; NUMBER OF SEQUENCES: 56
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: PANITCH SCHWARZE JACOBS & NADEL, P.C.
; STREET: 1601 MARKET STREET, 36TH FLOOR
; CITY: PHILADELPHIA
; STATE: PENNSYLVANIA
; COUNTRY: USA
; ZIP: 19103-2398

; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/075,541D
; FILING DATE: 10-JUN-1993
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: AU pk 3876
; FILING DATE: 12-DEC-1990
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/au91/00575
; FILING DATE: 12-DEC-1991
; ATTORNEY/AGENT INFORMATION:
; NAME: NADEL, ALAN S
; REGISTRATION NUMBER: 27,363
; REFERENCE/DOCKET NUMBER: 8795-4
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 215-567-2020
; TELEFAX: 215-567-2991
; INFORMATION FOR SEQ ID NO: 36:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 21 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; US-08-075-541D-36

Query Match          100.0%; Score 53; DB 2; Length 21;
Best Local Similarity 100.0%; Pred. No. 0.0049;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 TTDLVCEYEQ 9
DB      3 TTDLVCEYEQ 11
```

RESULT 6
US-10-612-818-7
; Sequence 7, Application US/10612818
; Patent No. 6933123
; GENERAL INFORMATION:
; APPLICANT: Impact Diagnostics
; TITLE OF INVENTION: Peptides from the E2, E6 and E7 Proteins of Human Papillomavirus
; TITLE OF INVENTION: 18 for Detecting and/or Diagnosing Cervical and Other Human Pap
; FILE REFERENCE: 3352-2-2
; CURRENT APPLICATION NUMBER: US/10/612,818
; PRIOR FILING DATE: 2003-07-01
; PRIOR APPLICATION NUMBER: US 60/394,172
; PRIOR FILING DATE: 2002-07-02
; PRIOR APPLICATION NUMBER: US 09/828,645
; PRIOR FILING DATE: 2001-04-05
; NUMBER OF SEQ ID NOS: 8
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO: 7
; LENGTH: 21
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Derived from the E7 early coding region of HPV 16
US-10-612-818-7

Query Match 100.0%; Score 53; DB 2; Length 21;
Best Local Similarity 100.0%; Pred. No. 0.0049;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TTDLXCYEQ 9
|||
Db 2 TTDLXCYEQ 10

RESULT 7
US-08-363-586-1
; Sequence 1, Application US/08363586
; Patent No. 5629161
; GENERAL INFORMATION:
; APPLICANT: Mueller, Martin
; APPLICANT: Gissmann, Lutz
; TITLE OF INVENTION: Use of HPV-16 E6 and E7-Gene Derived
; TITLE OF INVENTION: Peptides for the Diagnostic Purpose
; NUMBER OF SEQUENCES: 4
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Finegan, Henderson, Farabow, Garrett &
; STREET: 1300 I Street, N.W.
; CITY: Washington
; STATE: D.C.
; COUNTRY: USA
; ZIP: 20005-3315
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/363,586
; FILING DATE: 23-DEC-1994
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/909,296
; FILING DATE: 09-JUL-1992
; APPLICATION NUMBER: EP 9111720.8
; FILING DATE: 13-JUL-1991
; ATTORNEY/AGENT INFORMATION:
; NAME: Wadler, Linda A.
; REGISTRATION NUMBER: 33,218

; REFERENCE/DOCKET NUMBER: 02481-1195-00000
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 202-408-4000
; TELEFAX: 202-408-4400
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 30 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-08-363-586-1

Query Match 100.0%; Score 53; DB 1; Length 30;
Best Local Similarity 100.0%; Pred. No. 0.0071;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TTDLXCYEQ 9
|||
Db 14 TTDLXCYEQ 22

RESULT 8
US-08-934-915-51
; Sequence 51, Application US/08934915
; Patent No. 5932412
; GENERAL INFORMATION:
; APPLICANT: DILLNER, JOAKIM
; APPLICANT: DILLNER, LENA
; APPLICANT: CHENG, HWEE-MING
; TITLE OF INVENTION: SYNTHETIC PEPTIDES OF HUMAN
; TITLE OF INVENTION: PAPILLOMAVIRUS 1, 5, 6, 8,
; TITLE OF INVENTION: 11, 16, 18, 31, 33 AND 56,
; TITLE OF INVENTION: USEFUL IN IMMUNOASSAY FOR
; TITLE OF INVENTION: DIAGNOSTIC PURPOSES
; NUMBER OF SEQUENCES: 193
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MASON & ASSOCIATES, P.A.
; STREET: 17757 U.S. HWY. 19 NORTH, SUITE 500
; CITY: CLEARWATER
; STATE: FLORIDA
; COUNTRY: U.S.A.
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: Windows 3.0
; SOFTWARE: Microsoft Word 6.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/934,915
; FILING DATE: 22-SEP-1997
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 07/949,836
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: LOUISE A. Foulch
; REGISTRATION NUMBER: 37,133
; REFERENCE/DOCKET NUMBER: 1946.6
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 813-538-3800
; TELEFAX: 813-538-3820
; TELEX:
; INFORMATION FOR SEQ ID NO: 51:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 30 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-08-934-915-51

Query Match 100.0%; Score 53; DB 1; Length 30;
Best Local Similarity 100.0%; Pred. No. 0.0071;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TTDLYCYEQ 9
|||||
Db 18 TTDLYCYEQ 26

RESULT 9
US-09-486-394-1
; Sequence 1, Application US/09486394
; Patent No. 6478749
; GENERAL INFORMATION:
; APPLICANT: Hopfl, Reinhard
; TITLE OF INVENTION: Diagnostic kit for Skin Tests, and Method
; FILE REFERENCE: 032929-001
; CURRENT APPLICATION NUMBER: US/09/486,394
; CURRENT FILING DATE: 2000-06-20
; PRIOR APPLICATION NUMBER: PCT/EP98/04773
; PRIOR FILING DATE: 1998-07-30
; PRIOR APPLICATION NUMBER: DE 197 37 409.3
; PRIOR FILING DATE: 1997-08-27
; NUMBER OF SEQ ID NOS: 6
; SOFTWARE: Patentin version 3.1
; SEQ ID NO 1
; LENGTH: 30
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
; FEATURE:
; NAME/KEY: PEPTIDE
; LOCATION: (1)..(30)
; OTHER INFORMATION: E7 peptide.
US-09-486-394-1

Query Match 100.0%; Score 53; DB 2; Length 30;
Best Local Similarity 100.0%; Pred. No. 0.0071;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TTDLYCYEQ 9
|||||
Db 19 TTDLYCYEQ 27

RESULT 10
US-09-828-645-3
; Sequence 3, Application US/09828645
; Patent No. 6743593
; GENERAL INFORMATION:
; APPLICANT: Hu, Yao Xiong
; TITLE OF INVENTION: Immunological Methodology for Discerning Human Papillomavirus
; FILE REFERENCE: 146-1-002
; CURRENT APPLICATION NUMBER: US/09/828,645
; CURRENT FILING DATE: 2001-04-05
; PRIOR APPLICATION NUMBER: US 60/194,796
; PRIOR FILING DATE: 2000-04-05
; NUMBER OF SEQ ID NOS: 8
; SOFTWARE: Patentin version 3.1
; SEQ ID NO 3
; LENGTH: 30
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Derived from the E7 early region of HPV-16
US-09-828-645-3

Query Match 100.0%; Score 53; DB 2; Length 30;
Best Local Similarity 100.0%; Pred. No. 0.0071;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TTDLYCYEQ 9
|||||
Db 14 TTDLYCYEQ 22

RESULT 11
US-08-406-248-6

; Sequence 6, Application US/08406248
; Patent No. 5736318
; GENERAL INFORMATION:
; APPLICANT: Munger, Karl
; APPLICANT: Jones, D. Leanne
; TITLE OF INVENTION: METHOD AND KIT FOR EVALUATING
; TITLE OF INVENTION: TRANSFORMED CELLS
; NUMBER OF SEQUENCES: 6
; CORRESPONDENCE ADDRESS:
; ADDRESSER: Ann-Louise Kerner, Ph.D., Lappin & Kusmer
; STREET: 200 State Street
; CITY: Boston
; STATE: MA
; COUNTRY: USA
; ZIP: 02109
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/406,248
; FILING DATE:
; CLASSIFICATION: 436
; ATTORNEY/AGENT INFORMATION:
; NAME: McDanielis, Patricia A.
; REGISTRATION NUMBER: 33,194
; REFERENCE/DOCKET NUMBER: HAZ-011
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 617-330-1300
; TELEFAX: 617-330-1311
; INFORMATION FOR SEQ ID NO: 6:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 98 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-406-248-6

Query Match 100.0%; Score 53; DB 1; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.024;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TTDLYCYEQ 9
|||||
Db 19 TTDLYCYEQ 27

RESULT 12
US-08-075-541D-42
; Sequence 42, Application US/08075541D
; Patent No. 6183745
; GENERAL INFORMATION:
; APPLICANT: TINDLE, ROBERT
; APPLICANT: FERNANDO, GERMAIN
; APPLICANT: FRAZER, IAN
; TITLE OF INVENTION: SUBUNIT PAPILLOMA VIRUS VACCINE AND
; TITLE OF INVENTION: PEPTIDES FOR USE THEREIN
; NUMBER OF SEQUENCES: 56
; CORRESPONDENCE ADDRESS:
; ADDRESSER: PANITCH SCHWARZE JACOBS & NADEL, P.C.
; STREET: 1601 MARKET STREET, 36TH FLOOR
; CITY: PHILADELPHIA
; STATE: PENNSYLVANIA
; COUNTRY: USA
; ZIP: 19103-2398
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/075,541D

FILING DATE: 10-JUN-1993
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: AU pk 3876
FILING DATE: 12-DEC-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: pcf/au91/00575
FILING DATE: 12-DEC-1991
ATTORNEY/AGENT INFORMATION:
NAME: NADEL, ALAN S
REGISTRATION NUMBER: 27,363
REFERENCE/DOCKET NUMBER: 8795-4
TELECOMMUNICATION INFORMATION:
TELEPHONE: 215-567-2020
TELEFAX: 215-567-2991
INFORMATION FOR SEQ ID NO: 42:
SEQUENCE CHARACTERISTICS:
LENGTH: 98 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-08-075-541D-42

Query Match 100.0%; Score 53; DB 2; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.024;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TTDLYCYEQ 9
|||
Db 19 TTDLYCYEQ 27

RESULT 13
US-09-382-616A-1
Sequence 1, Application US/09382616A
Patent No. 6200746
GENERAL INFORMATION:
APPLICANT: Fisher, Christopher
APPLICANT: He, Wanxia
TITLE OF INVENTION: Methods to Identify Anti-Viral Agents
FILE REFERENCE: 28341/6216
CURRENT APPLICATION NUMBER: US/09/382,616A
PRIOR FILING DATE: 1999-08-25
PRIOR APPLICATION NUMBER: 09/382,616
NUMBER OF SEQ ID NOS: 43
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 1
LENGTH: 98
TYPE: PRT
ORGANISM: Papillomavirus gylvllagi
US-09-382-616A-1

Query Match 100.0%; Score 53; DB 2; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.024;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TTDLYCYEQ 9
|||
Db 19 TTDLYCYEQ 27

RESULT 14
US-08-944-368A-4
Sequence 4, Application US/08944368A
Patent No. 6228368
GENERAL INFORMATION:
APPLICANT: Gissman, et al.
TITLE OF INVENTION: Papilloma Virus Capsomere Vaccine
FORMULATIONS and Methods of Use
NUMBER OF SEQUENCES: 28
CORRESPONDENCE ADDRESSES:

ADDRESSEE: Marshall, O'Toole, Gerstein, Murray &
ADDRESSEE: Borun
STREET: 233 South Wacker Drive, 6300 Sears Tower
CITY: Chicago
STATE: Illinois
COUNTRY: United States of America
ZIP: 60606-6402
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/944,368A
FILING DATE:
CLASSIFICATION: 424
ATTORNEY/AGENT INFORMATION:
NAME: Williams Jr., Joseph A.
REGISTRATION NUMBER: 38,659
REFERENCE/DOCKET NUMBER: 27013/34028
TELECOMMUNICATION INFORMATION:
TELEPHONE: 312-474-6300
TELEFAX: 312-474-0448
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 98 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-944-368A-4

Query Match 100.0%; Score 53; DB 2; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.024;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TTDLYCYEQ 9
|||
Db 19 TTDLYCYEQ 27

RESULT 15
US-09-820-764-4
Sequence 4, Application US/09820764
Patent No. 6326596
GENERAL INFORMATION:
APPLICANT: BURGER, Alexander
HALLEK, Michael
TITLE OF INVENTION: PAPILLOMA VIRUS CAPSOMERE VACCINE
FORMULATIONS AND METHODS OF USE
NUMBER OF SEQUENCES: 28
CORRESPONDENCE ADDRESSES:
ADDRESSEE: FOLEY & LARDNER
STREET: 3000 K Street, N.W.
CITY: Washington
STATE: D.C.
COUNTRY: U.S.A.
ZIP: 20007-5109
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/820,764
FILING DATE: 30-Mar-2001
CLASSIFICATION: <Unknown>
PRIOR APPLICATION NUMBER:
APPLICATION NUMBER: US 09/026,896
FILING DATE: 20-FEB-1998
ATTORNEY/AGENT INFORMATION:
NAME: Sandercock, Colin G.
REGISTRATION NUMBER: 31,298
REFERENCE/DOCKET NUMBER: 37067/102

```

;
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202) 672-5300
; TELEFAX: (202) 672-5399
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 98 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; SEQUENCE DESCRIPTION: SEQ ID NO: 4:
US-09-820-764-4
;
Query Match 100.0%; Score 53; DB 2; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.024;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TTDLVCEYEQ 9
DB 19 TTDLVCEYEQ 27

RESULT 16
US-09-613-303-8
; Sequence 8, Application US/09613303
; Patent No. 6495347
; GENERAL INFORMATION:
; APPLICANT: Siegel, Marvin
; APPLICANT: Chu, N. Randall
; APPLICANT: Mizzen, Lee A.
; TITLE OF INVENTION: INDUCTION OF A THI-LIKE RESPONSE IN VITRO
; FILE REFERENCE: 12071/002001
; CURRENT APPLICATION NUMBER: US/09/613,303
; CURRENT FILING DATE: 2000-07-10
; PRIOR APPLICATION NUMBER: US 60/143,757
; PRIOR FILING DATE: 1999-07-08
; NUMBER OF SEQ ID NOS: 55
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 8
; LENGTH: 98
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: fusion sequence
US-09-613-303-8
;
Query Match 100.0%; Score 53; DB 2; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.024;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TTDLVCEYEQ 9
DB 19 TTDLVCEYEQ 27

RESULT 17
US-09-566-420-19
; Sequence 19, Application US/09566420
; Patent No. 650641
; GENERAL INFORMATION:
; APPLICANT: CHEN, SI-YI AND ZHAOYANG, YOU
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR ANTIGENS WHICH ELICIT AN
; TITLE OF INVENTION: IMMUNE RESPONSE
; FILE REFERENCE: TBA
; CURRENT APPLICATION NUMBER: US/09/566,420
; CURRENT FILING DATE: 2000-05-05
; PRIOR APPLICATION NUMBER: 60/132,752
; PRIOR FILING DATE: 1999-05-06
; PRIOR APPLICATION NUMBER: 60/132,750
; PRIOR FILING DATE: 1999-05-06
; NUMBER OF SEQ ID NOS: 19
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 19
; LENGTH: 98
;
; TYPE: PRT
; ORGANISM: Human papillomavirus type E7
US-09-566-420-19
;
Query Match 100.0%; Score 53; DB 2; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.024;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TTDLVCEYEQ 9
DB 19 TTDLVCEYEQ 27

RESULT 18
US-09-986-118A-4
; Sequence 4, Application US/09986118A
; Patent No. 6562351
; GENERAL INFORMATION:
; APPLICANT: BURGER, Alexander
; APPLICANT: HALLER, Michael
; TITLE OF INVENTION: PAPILLOMA VIRUS CAPSOMERE VACCINE
; FORMULATIONS AND METHODS OF USE
; NUMBER OF SEQUENCES: 28
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: FOLEY & LARDNER
; STREET: 3000 K Street, N.W.
; CITY: Washington
; STATE: D.C.
; COUNTRY: U.S.A.
; ZIP: 20007-5109
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/986,118A
; FILING DATE: 07-NO. 6562351-2001
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 09/026,896
; FILING DATE: <Unknown>
; ATTORNEY/AGENT INFORMATION:
; NAME: Sandercock, Colin G.
; REGISTRATION NUMBER: 31,298
; REFERENCE/DOCKET NUMBER: 37067/102
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202) 672-5300
; TELEFAX: (202) 672-5399
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 98 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; SEQUENCE DESCRIPTION: SEQ ID NO: 4:
US-09-986-118A-4
;
Query Match 100.0%; Score 53; DB 2; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.024;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TTDLVCEYEQ 9
DB 19 TTDLVCEYEQ 27

RESULT 19
US-09-728-466-1
; Sequence 1, Application US/09728466
; Patent No. 6641994
; GENERAL INFORMATION:
; APPLICANT: Fisher, Christopher
;
; TYPE: PRT
; ORGANISM: Human papillomavirus type E7
US-09-728-466-1
;
Query Match 100.0%; Score 53; DB 2; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.024;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TTDLVCEYEQ 9
DB 19 TTDLVCEYEQ 27
```

```

;
; TYPE: PRT
; ORGANISM: Human papillomavirus type E7
US-09-566-420-19
;
Query Match 100.0%; Score 53; DB 2; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.024;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TTDLVCEYEQ 9
DB 19 TTDLVCEYEQ 27

RESULT 18
US-09-986-118A-4
; Sequence 4, Application US/09986118A
; Patent No. 6562351
; GENERAL INFORMATION:
; APPLICANT: BURGER, Alexander
; APPLICANT: HALLER, Michael
; TITLE OF INVENTION: PAPILLOMA VIRUS CAPSOMERE VACCINE
; FORMULATIONS AND METHODS OF USE
; NUMBER OF SEQUENCES: 28
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: FOLEY & LARDNER
; STREET: 3000 K Street, N.W.
; CITY: Washington
; STATE: D.C.
; COUNTRY: U.S.A.
; ZIP: 20007-5109
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/986,118A
; FILING DATE: 07-NO. 6562351-2001
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 09/026,896
; FILING DATE: <Unknown>
; ATTORNEY/AGENT INFORMATION:
; NAME: Sandercock, Colin G.
; REGISTRATION NUMBER: 31,298
; REFERENCE/DOCKET NUMBER: 37067/102
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202) 672-5300
; TELEFAX: (202) 672-5399
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 98 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; SEQUENCE DESCRIPTION: SEQ ID NO: 4:
US-09-986-118A-4
;
Query Match 100.0%; Score 53; DB 2; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.024;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TTDLVCEYEQ 9
DB 19 TTDLVCEYEQ 27

RESULT 19
US-09-728-466-1
; Sequence 1, Application US/09728466
; Patent No. 6641994
; GENERAL INFORMATION:
; APPLICANT: Fisher, Christopher
;
; TYPE: PRT
; ORGANISM: Human papillomavirus type E7
US-09-728-466-1
;
Query Match 100.0%; Score 53; DB 2; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.024;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TTDLVCEYEQ 9
DB 19 TTDLVCEYEQ 27
```

APPLICANT: He, Manxia
TITLE OF INVENTION: Methods to Identify Anti-Viral Agents
FILE REFERENCE: 28341/6216
CURRENT APPLICATION NUMBER: US/09/728,466
CURRENT FILING DATE: 2000-12-01
PRIOR APPLICATION NUMBER: 09/382,616
PRIOR FILING DATE: 1999-08-25
NUMBER OF SEQ ID NOS: 43
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 1
LENGTH: 98
TYPE: PRT
ORGANISM: Papillomavirus sylvilagi
US-09-728-466-1

Query Match 100.0%; Score 53; DB 2; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.024;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TTDLXCYEQ 9
Db 19 TTDLXCYEQ 27

RESULT 20
US-09-824-017-4
Sequence 4, Application US/09824017
Patent No. 6649167
GENERAL INFORMATION:
APPLICANT: BURGER, Alexander
HALLEK, Michael
TITLE OF INVENTION: PAPILLOMA VIRUS CAPSOMERE VACCINE
NUMBER OF SEQUENCES: 28
CORRESPONDENCE ADDRESS:
ADDRESSEE: FOLEY & LARDNER
STREET: 3000 K Street, N.W.
CITY: Washington
STATE: D.C.
COUNTRY: U.S.A.
ZIP: 20007-5109
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/824,017
FILING DATE: 03-Apr-2001
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 09/026,896
FILING DATE: 1998-02-20
ATTORNEY/AGENT INFORMATION:
NAME: Sandercock, Colin G.
REGISTRATION NUMBER: 31,298
REFERENCE/DOCKET NUMBER: 37067/102
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 672-5300
TELEFAX: (202) 672-5399
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 98 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
SEQUENCE DESCRIPTION: SEQ ID NO: 4:
US-09-824-017-4

Query Match 100.0%; Score 53; DB 2; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.024;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TTDLXCYEQ 9
Db 19 TTDLXCYEQ 27

RESULT 21
US-10-267-311-8
Sequence 8, Application US/10267311
Patent No. 6657055
GENERAL INFORMATION:
APPLICANT: Siegel, Marvin
APPLICANT: Chu, N. Randall
APPLICANT: Mizzen, Lee A.
TITLE OF INVENTION: INDUCTION OF A TH1-LIKE RESPONSE IN VITRO
FILE REFERENCE: 12071/002801
CURRENT APPLICATION NUMBER: US/10/267,311
CURRENT FILING DATE: 2002-10-09
PRIOR APPLICATION NUMBER: US/09/613,303
PRIOR FILING DATE: 2000-07-10
PRIOR APPLICATION NUMBER: US 60/143,757
PRIOR FILING DATE: 1999-07-08
NUMBER OF SEQ ID NOS: 55
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 8
LENGTH: 98
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: fusion sequence
US-10-267-311-8

Query Match 100.0%; Score 53; DB 2; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.024;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TTDLXCYEQ 9
Db 19 TTDLXCYEQ 27

RESULT 22
US-10-201-764-19
Sequence 19, Application US/10201764
Patent No. 6716623
GENERAL INFORMATION:
APPLICANT: CHEN, SI-YI AND ZHAOYANG, YOU
TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR ANTIGENS WHICH ELICIT AN
FILE REFERENCE: TBA
CURRENT APPLICATION NUMBER: IMMUNE RESPONSE
CURRENT FILING DATE: 2002-07-22
PRIOR APPLICATION NUMBER: US/10/201,764
PRIOR FILING DATE: 2000-05-05
PRIOR APPLICATION NUMBER: 60/132,752
PRIOR FILING DATE: 1999-05-06
PRIOR APPLICATION NUMBER: 60/132,750
PRIOR FILING DATE: 1999-05-06
NUMBER OF SEQ ID NOS: 19
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 19
LENGTH: 98
TYPE: PRT
ORGANISM: Human papillomavirus type E7
US-10-201-764-19

Query Match 100.0%; Score 53; DB 2; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.024;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TTDLXCYEQ 9
Db 19 TTDLXCYEQ 27


```
RESULT 23
US-09-637-746-3
; Sequence 3, Application US/09637746
; Patent No. 6727079
; GENERAL INFORMATION:
; APPLICANT: Thorgelirson, Snorri S.
; APPLICANT: Woltsch, Joseph T.
; APPLICANT: Zhang, Minghuang
; TITLE OF INVENTION: CDNA ENCODING A GENE BOG (B5T OVER-EXPRESSED GENE) AND ITS PROTEI
; TITLE OF INVENTION: PRODUCT
; FILE REFERENCE: 11613.29USM1
; CURRENT APPLICATION NUMBER: US/09/637,746
; CURRENT FILING DATE: 2000-08-11
; PRIOR APPLICATION NUMBER: PCT/US99/04142
; PRIOR FILING DATE: 1999-02-25
; PRIOR APPLICATION NUMBER: US 60/079,567
; PRIOR FILING DATE: 1998-03-27
; PRIOR APPLICATION NUMBER: US 60/075,922
; PRIOR FILING DATE: 1998-02-25
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 3
; LENGTH: 98
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-09-637-746-3

Query Match          100.0%; Score 53; DB 2; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.024;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TTDLYCYEQ 9
   |||||
Db 19 TTDLYCYEQ 27

RESULT 24
US-09-501-097A-7
; Sequence 7, Application US/09501097A
; Patent No. 6734173
; GENERAL INFORMATION:
; APPLICANT: Tzyy-Chooa Wu
; APPLICANT: Chien-Fu Hung
; TITLE OF INVENTION: IMPROVED HSP DNA VACCINES
; FILE REFERENCE: 2240-169349
; CURRENT APPLICATION NUMBER: US/09/501,097A
; CURRENT FILING DATE: 2000-02-09
; NUMBER OF SEQ ID NOS: 25
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 7
; LENGTH: 98
; TYPE: PRT
; ORGANISM: human papillomavirus
US-09-501-097A-7

Query Match          100.0%; Score 53; DB 2; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.024;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TTDLYCYEQ 9
   |||||
Db 19 TTDLYCYEQ 27

RESULT 25
US-09-980-523A-12
; Sequence 12, Application US/09980523A
; Patent No. 6783763
; GENERAL INFORMATION:
; APPLICANT: CHOPPIN, JEANNINE
; APPLICANT: BOURGAULT VILLADA, ISABELLE
; APPLICANT: GUILLET, JEAN-GERARD
```

```
APPLICANT: CONNAN, FRANCINE
APPLICANT: FERRIES, ESTELLE
; TITLE OF INVENTION: POLYEPITOPIC PROTEIN FRAGMENTS OF THE E6 AND E7
; TITLE OF INVENTION: PROTEINS OF HPV, THEIR PRODUCTION AND THEIR USE
; FILE REFERENCE: MOBI AO INS
; CURRENT APPLICATION NUMBER: US/09/980,523A
; CURRENT FILING DATE: 2002-04-29
; PRIOR APPLICATION NUMBER: PCT/FR00/01513
; PRIOR FILING DATE: 2000-05-31
; PRIOR APPLICATION NUMBER: FR 99/07012
; PRIOR FILING DATE: 1999-06-03
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 12
; LENGTH: 98
; TYPE: PRT
; ORGANISM: Human Papillomavirus
US-09-980-523A-12

Query Match          100.0%; Score 53; DB 2; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.024;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TTDLYCYEQ 9
   |||||
Db 19 TTDLYCYEQ 27

RESULT 26
US-09-613-303-12
; Sequence 12, Application US/09613303
; Patent No. 6495347
; GENERAL INFORMATION:
; APPLICANT: Siegel, Marvin
; APPLICANT: Chu, N. Randall
; APPLICANT: Mizen, Lee A.
; TITLE OF INVENTION: INDUCTION OF A TH1-LIKE RESPONSE IN VITRO
; FILE REFERENCE: 12071/002001
; CURRENT APPLICATION NUMBER: US/09/613,303
; CURRENT FILING DATE: 2000-07-10
; PRIOR APPLICATION NUMBER: US 60/143,757
; PRIOR FILING DATE: 1999-07-08
; NUMBER OF SEQ ID NOS: 55
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 12
; LENGTH: 121
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: fusion sequence
US-09-613-303-12

Query Match          100.0%; Score 53; DB 2; Length 121;
Best Local Similarity 100.0%; Pred. No. 0.03;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TTDLYCYEQ 9
   |||||
Db 42 TTDLYCYEQ 50

RESULT 27
US-10-267-311-12
; Sequence 12, Application US/10267311
; Patent No. 6657055
; GENERAL INFORMATION:
; APPLICANT: Siegel, Marvin
; APPLICANT: Chu, N. Randall
; APPLICANT: Mizen, Lee A.
; TITLE OF INVENTION: INDUCTION OF A TH1-LIKE RESPONSE IN VITRO
; FILE REFERENCE: 12071/002001
; CURRENT APPLICATION NUMBER: US/10/267,311
```

```
; CURRENT FILING DATE: 2002-10-09
; PRIOR APPLICATION NUMBER: US/09/613,303
; PRIOR FILING DATE: 2000-07-10
; PRIOR APPLICATION NUMBER: US 60/143,757
; PRIOR FILING DATE: 1999-07-08
; NUMBER OF SEQ ID NOS: 55
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 12
; LENGTH: 121
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: fusion sequence
US-10-267-311-12

Query Match          100.0%; Score 53; DB 2; Length 121;
Best Local Similarity 100.0%; Pred. No. 0.03;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TTDLXCYEQ 9
Db 42 TTDLXCYEQ 50

RESULT 28
US-08-860-165-12
; Sequence 12, Application US/08860165A
; Patent No. 6004557
; GENERAL INFORMATION:
; APPLICANT: EDWARDS, Stirling John
; APPLICANT: COX, John Cooper
; APPLICANT: WEBB, Elizabeth Ann
; TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
; FILE REFERENCE: 17227/130
; CURRENT APPLICATION NUMBER: US/08/860,165A
; CURRENT FILING DATE: 1997-09-22
; EARLIER APPLICATION NUMBER: PCT/AU95/00868
; EARLIER FILING DATE: 1995-12-20
; EARLIER APPLICATION NUMBER: AU PN0157
; EARLIER FILING DATE: 1994-12-20
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 12
; LENGTH: 172
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Gene Fusion
US-08-860-165-12

Query Match          100.0%; Score 53; DB 2; Length 172;
Best Local Similarity 100.0%; Pred. No. 0.043;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TTDLXCYEQ 9
Db 117 TTDLXCYEQ 125

RESULT 29
US-09-359-382-12
; Sequence 12, Application US/09359382
; Patent No. 6306397
; GENERAL INFORMATION:
; APPLICANT: EDWARDS, Stirling John
; APPLICANT: COX, John Cooper
; APPLICANT: WEBB, Elizabeth Ann
; APPLICANT: FRAZER, Ian
; TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
; FILE REFERENCE: 017227/0148
; CURRENT APPLICATION NUMBER: US/09/359,382
; CURRENT FILING DATE: 1999-07-23
```

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; EARLIER APPLICATION NUMBER: US 08/860,165
; EARLIER FILING DATE: 1997-09-22
; EARLIER APPLICATION NUMBER: PCT/AU95/00868
; EARLIER FILING DATE: 1995-12-20
; EARLIER APPLICATION NUMBER: AU PN0157/94
; EARLIER FILING DATE: 1994-12-20
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 12
; LENGTH: 172
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-09-359-382-12

Query Match          100.0%; Score 53; DB 2; Length 172;
Best Local Similarity 100.0%; Pred. No. 0.043;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TTDLXCYEQ 9
Db 117 TTDLXCYEQ 125

RESULT 30
US-09-613-303-35
; Sequence 35, Application US/09613303
; Patent No. 6495347
; GENERAL INFORMATION:
; APPLICANT: Siegel, Marvin
; APPLICANT: Chu, N. Randall
; APPLICANT: Mizzen, Lee A.
; TITLE OF INVENTION: INDUCTION OF A TH1-LIKE RESPONSE IN VITRO
; FILE REFERENCE: 12071/002001
; CURRENT APPLICATION NUMBER: US/09/613,303
; CURRENT FILING DATE: 2000-07-10
; PRIOR APPLICATION NUMBER: US 60/143,757
; PRIOR FILING DATE: 1999-07-08
; NUMBER OF SEQ ID NOS: 55
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 35
; LENGTH: 198
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: fusion sequence
US-09-613-303-35

Query Match          100.0%; Score 53; DB 2; Length 198;
Best Local Similarity 100.0%; Pred. No. 0.05;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TTDLXCYEQ 9
Db 119 TTDLXCYEQ 127

RESULT 31
US-10-267-311-35
; Sequence 35, Application US/10267311
; Patent No. 6657055
; GENERAL INFORMATION:
; APPLICANT: Siegel, Marvin
; APPLICANT: Chu, N. Randall
; APPLICANT: Mizzen, Lee A.
; TITLE OF INVENTION: INDUCTION OF A TH1-LIKE RESPONSE IN VITRO
; FILE REFERENCE: 12071/002001
; CURRENT APPLICATION NUMBER: US/10/267,311
; CURRENT FILING DATE: 2002-10-09
; PRIOR APPLICATION NUMBER: US/09/613,303
; PRIOR FILING DATE: 2000-07-10
; PRIOR APPLICATION NUMBER: US 60/143,757
; PRIOR FILING DATE: 1999-07-08
; NUMBER OF SEQ ID NOS: 55
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SOFTWARE: FastSeq for Windows Version 4.0

SEQ ID NO 35

LENGTH: 198

TYPE: PRT

ORGANISM: Artificial Sequence

FEATURE:

OTHER INFORMATION: fusion sequence

US-10-267-311-35

Query Match 100.0%; Score 53; DB 2; Length 198;

Best Local Similarity 100.0%; Pred. No. 0.05; Indels 0; Gaps 0;

Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TTDLYCYEQ 9

Db 119 TTDLYCYEQ 127

RESULT 32

US-09-485-885-1

Sequence 1, Application US/09485885

Patent No. 6342224

GENERAL INFORMATION:

APPLICANT: Bruck, Claudine

APPLICANT: Cabezon Silva, Teresa

APPLICANT: Delisse, Anne-Marie Eva Bernande

APPLICANT: Gerard, Catherine Marie Ghislaine

APPLICANT: Lombardo-Bencheikh, Angela

TITLE OF INVENTION: Vaccine

FILE REFERENCE: B45107

CURRENT APPLICATION NUMBER: US/09/485,885

CURRENT FILING DATE: 2000-02-18

PRIOR APPLICATION NUMBER: PCT/EP98/05285

PRIOR FILING DATE: 1998-08-17

PRIOR APPLICATION NUMBER: GB 9717953.5

PRIOR FILING DATE: 1997-08-22

NUMBER OF SEQ ID NOS: 23

SOFTWARE: FastSeq for Windows Version 3.0

SEQ ID NO 1

LENGTH: 220

TYPE: PRT

ORGANISM: Homo sapien

US-09-485-885-1

Query Match 100.0%; Score 53; DB 2; Length 220;

Best Local Similarity 100.0%; Pred. No. 0.056; Indels 0; Gaps 0;

Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TTDLYCYEQ 9

Db 132 TTDLYCYEQ 140

RESULT 33

US-09-485-885-12

Sequence 12, Application US/09485885

Patent No. 6342224

GENERAL INFORMATION:

APPLICANT: Bruck, Claudine

APPLICANT: Cabezon Silva, Teresa

APPLICANT: Delisse, Anne-Marie Eva Bernande

APPLICANT: Gerard, Catherine Marie Ghislaine

APPLICANT: Lombardo-Bencheikh, Angela

TITLE OF INVENTION: Vaccine

FILE REFERENCE: B45107

CURRENT APPLICATION NUMBER: US/09/485,885

CURRENT FILING DATE: 2000-02-18

PRIOR APPLICATION NUMBER: PCT/EP98/05285

PRIOR FILING DATE: 1998-08-17

PRIOR APPLICATION NUMBER: GB 9717953.5

PRIOR FILING DATE: 1997-08-22

NUMBER OF SEQ ID NOS: 23

SOFTWARE: FastSeq for Windows Version 3.0

SEQ ID NO 12

LENGTH: 239

TYPE: PRT

ORGANISM: Homo sapien

US-09-485-885-12

Query Match 100.0%; Score 53; DB 2; Length 239;

Best Local Similarity 100.0%; Pred. No. 0.061; Indels 0; Gaps 0;

Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TTDLYCYEQ 9

Db 151 TTDLYCYEQ 159

RESULT 34

US-08-459-818-20

Sequence 20, Application US/08459818

Patent No. 5851795

GENERAL INFORMATION:

APPLICANT: Linsley, Peter S.

APPLICANT: Ledbetter, Jeffrey A.

APPLICANT: Damle, Nitin K.

APPLICANT: Brady, William

TITLE OF INVENTION: CTLA4 Receptor and Uses Thereof

NUMBER OF SEQUENCES: 27

CORRESPONDENCE ADDRESS:

ADDRESS: Merchant & Gould

STREET: 1150 Santa Monica Blvd., Suite 400

CITY: Los Angeles

STATE: California

COUNTRY: USA

ZIP: 90025

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: FastSeq 2.0

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/459,818

FILING DATE: 02-JUN-1995

CLASSIFICATION: 435

ATTORNEY/AGENT INFORMATION:

NAME: Adriano, Sarah B.

REGISTRATION NUMBER: 34,470

REFERENCE/DOCKET NUMBER: 30436.35US02

TELECOMMUNICATION INFORMATION:

TELEPHONE: 310-445-1140

TELEFAX: 310-445-9031

INFORMATION FOR SEQ ID NO: 20:

SEQUENCE CHARACTERISTICS:

LENGTH: 253 amino acids

TYPE: amino acid

STRANDEDNESS:

TOPOLOGY: linear

MOLECULE TYPE: protein

US-08-459-818-20

Query Match 100.0%; Score 53; DB 1; Length 253;

Best Local Similarity 100.0%; Pred. No. 0.065; Indels 0; Gaps 0;

Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TTDLYCYEQ 9

Db 174 TTDLYCYEQ 182

RESULT 35

US-08-889-666-20

Sequence 20, Application US/08889666

Patent No. 5885579

GENERAL INFORMATION:

APPLICANT: Linsley, Peter S.

APPLICANT: Ledbetter, Jeffrey A.
APPLICANT: Damele, Nitin K.
APPLICANT: Brady, William
APPLICANT: Kiener, Peter A.
TITLE OF INVENTION: CTLA4 Receptor and Uses Thereof
NUMBER OF SEQUENCES: 26
CORRESPONDENCE ADDRESS:
ADDRESSEE: Merchant & Gould
STREET: 1150 Santa Monica Blvd., Suite 400
CITY: Los Angeles
STATE: California
COUNTRY: USA
ZIP: 90025
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/889,666
FILING DATE: 08-JUL-1997
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/375390
FILING DATE: 18-JAN-1995
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Adriano, Sarah B.
REGISTRATION NUMBER: 34,470
REFERENCE/DOCKET NUMBER: 30436-35US01
TELECOMMUNICATION INFORMATION:
TELEPHONE: 310-445-1140
TELEFAX: 310-445-9031
INFORMATION FOR SEQ ID NO: 20:
SEQUENCE CHARACTERISTICS:
LENGTH: 253 amino acids
TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-889-666-20

Query Match 100.0%; Score 53; DB 1; Length 253;
Best Local Similarity 100.0%; Pred. No. 0.065;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TTDLVCEQ 9
DB 174 TTDLVCEQ 182

RESULT 36
US-08-465-078-20
Sequence 20, Application US/08465078
Patent No. 5885796
GENERAL INFORMATION:
APPLICANT: Linsley, Peter S.
APPLICANT: Ledbetter, Jeffrey A.
APPLICANT: Damele, Nitin K.
APPLICANT: Brady, William
APPLICANT: Kiener, Peter A.
TITLE OF INVENTION: CTLA4 Receptor and Uses Thereof
NUMBER OF SEQUENCES: 26
CORRESPONDENCE ADDRESS:
ADDRESSEE: Merchant & Gould
STREET: 1150 Santa Monica Blvd., Suite 400
CITY: Los Angeles
STATE: California
COUNTRY: USA
ZIP: 90025
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/465,078
FILING DATE: 05-JUN-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/375390
FILING DATE: 18-JAN-1995
ATTORNEY/AGENT INFORMATION:
NAME: Adriano, Sarah B.
REGISTRATION NUMBER: 34,470
REFERENCE/DOCKET NUMBER: 30436-35US01
TELECOMMUNICATION INFORMATION:
TELEPHONE: 310-445-1140
TELEFAX: 310-445-9031
INFORMATION FOR SEQ ID NO: 20:
SEQUENCE CHARACTERISTICS:
LENGTH: 253 amino acids
TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-465-078-20

Query Match 100.0%; Score 53; DB 1; Length 253;
Best Local Similarity 100.0%; Pred. No. 0.065;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TTDLVCEQ 9
DB 174 TTDLVCEQ 182

RESULT 37
US-08-725-776-20
Sequence 20, Application US/08725776
Patent No. 5968510
GENERAL INFORMATION:
APPLICANT: Linsley, Peter S.
APPLICANT: Ledbetter, Jeffrey A.
APPLICANT: Damele, Nitin K.
APPLICANT: Brady, William
APPLICANT: Kiener, Peter A.
TITLE OF INVENTION: CTLA4 Receptor and Uses Thereof
NUMBER OF SEQUENCES: 26
CORRESPONDENCE ADDRESS:
ADDRESSEE: Merchant & Gould
STREET: 1150 Santa Monica Blvd., Suite 400
CITY: Los Angeles
STATE: California
COUNTRY: USA
ZIP: 90025
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/725,776
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/375390
FILING DATE: 18-JAN-1995
ATTORNEY/AGENT INFORMATION:
NAME: Adriano, Sarah B.
REGISTRATION NUMBER: 34,470
REFERENCE/DOCKET NUMBER: 30436-35US01
TELECOMMUNICATION INFORMATION:
TELEPHONE: 310-445-1140
TELEFAX: 310-445-9031
INFORMATION FOR SEQ ID NO: 20:

SEQUENCE CHARACTERISTICS:
LENGTH: 253 amino acids
TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-725-776-20

Query Match 100.0%; Score 53; DB 1; Length 253;
Best Local Similarity 100.0%; Pred. No. 0.065;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TTDLYCYEQ 9
Db 174 TTDLYCYEQ 182

RESULT 38
US-08-488-062-20
Sequence 20, Application US/08488062
Patent No. 5977318
GENERAL INFORMATION:
APPLICANT: Linsley, Peter S.
APPLICANT: Ledbetter, Jeffrey A.
APPLICANT: Damle, Milin K.
APPLICANT: Brady, William
APPLICANT: Kiener, Peter A.
TITLE OF INVENTION: CTLA4 Receptor and Uses Thereof
NUMBER OF SEQUENCES: 26
CORRESPONDENCE ADDRESS:
ADDRESSEE: Merchant & Gould
STREET: 1150 Santa Monica Blvd., Suite 400
CITY: Los Angeles
STATE: California
COUNTRY: USA
ZIP: 90025
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/488,062
FILING DATE: 07-JUN-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/375390
FILING DATE: 18-JAN-1995
ATTORNEY/AGENT INFORMATION:
NAME: Adriano, Sarah B.
REGISTRATION NUMBER: 34,470
REFERENCE/DOCKET NUMBER: 30436-35US01
TELECOMMUNICATION INFORMATION:
TELEPHONE: 310-445-1140
TELEFAX: 310-445-9031
INFORMATION FOR SEQ ID NO: 20:
SEQUENCE CHARACTERISTICS:
LENGTH: 253 amino acids
TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-488-062-20

Query Match 100.0%; Score 53; DB 1; Length 253;
Best Local Similarity 100.0%; Pred. No. 0.065;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TTDLYCYEQ 9
Db 174 TTDLYCYEQ 182

RESULT 39
US-08-117-083-9

Sequence 9, Application US/08117083
Patent No. 5719054
GENERAL INFORMATION:
APPLICANT: Bourneill, Michael E.
APPLICANT: Ingles, Stephen C.
APPLICANT: Munro, Alan J.
TITLE OF INVENTION: Recombinant Virus Vectors Encoding Human
TITLE OF INVENTION: Papilloma Virus Proteins
NUMBER OF SEQUENCES: 70
CORRESPONDENCE ADDRESS:
ADDRESSEE: Walter H. Dreger
STREET: 4 Embarcadero Center, Suite 3400
CITY: San Francisco
STATE: CA
COUNTRY: USA
ZIP: 94111

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/117,083
FILING DATE: 10-SEP-1993
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Dreger, Walter H.
REGISTRATION NUMBER: 24,190
REFERENCE/DOCKET NUMBER: A-58783
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415-781-1989
TELEFAX: 415-398-3249
TELFX: 910 277299

INFORMATION FOR SEQ ID NO: 9:
SEQUENCE CHARACTERISTICS:
LENGTH: 263 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
FEATURE:
NAME/KEY: Protein
LOCATION: 1..263
OTHER INFORMATION: /note="Xaa refers to stop codon in
the open reading frame."
US-08-117-083-9

Query Match 100.0%; Score 53; DB 1; Length 263;
Best Local Similarity 100.0%; Pred. No. 0.067;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TTDLYCYEQ 9
Db 180 TTDLYCYEQ 188

RESULT 40
US-08-860-165-10
Sequence 10, Application US/08860165A
Patent No. 6004557
GENERAL INFORMATION:
APPLICANT: EDWARDS, Stirling John
APPLICANT: COX, John Cooper
APPLICANT: WEBB, Elizabeth Ann
APPLICANT: PRAZER, Ian
TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
FILE REFERENCE: 17227/130
CURRENT APPLICATION NUMBER: US/08/860,165A
CURRENT FILING DATE: 1997-09-22
EARLIER APPLICATION NUMBER: PCT/AU95/00868
EARLIER FILING DATE: 1995-12-20

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; EARLIER APPLICATION NUMBER: AU PN0157
; EARLIER FILING DATE: 1994-12-20
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 10
; LENGTH: 266
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Gene Fusion
US-08-860-165-10

Query Match          100.0%; Score 53; DB 2; Length 266;
Best Local Similarity 100.0%; Pred. No. 0.068;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 TTDLYCYEQ 9
Db      179 TTDLYCYEQ 187

RESULT 41
US-09-359-382-10
; Sequence 10, Application US/09359382
; Patent No. 6306397
; GENERAL INFORMATION:
; APPLICANT: EDWARDS, Stirling John
; APPLICANT: COX, John Cooper
; APPLICANT: WEBB, Elizabeth Ann
; APPLICANT: FRAZER, Ian
; TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
; FILE REFERENCE: 017227/0148
; CURRENT APPLICATION NUMBER: US/09/359,382
; CURRENT FILING DATE: 1999-07-23
; EARLIER APPLICATION NUMBER: US 08/860,165
; EARLIER FILING DATE: 1997-09-22
; EARLIER APPLICATION NUMBER: PCT/AU95/00868
; EARLIER FILING DATE: 1995-12-20
; EARLIER APPLICATION NUMBER: AU PN0157/94
; EARLIER FILING DATE: 1994-12-20
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 10
; LENGTH: 266
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-09-359-382-10

Query Match          100.0%; Score 53; DB 2; Length 266;
Best Local Similarity 100.0%; Pred. No. 0.068;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 TTDLYCYEQ 9
Db      179 TTDLYCYEQ 187

RESULT 42
US-09-367-309A-1
; Sequence 1, Application US/09367309A
; Patent No. 6428807
; GENERAL INFORMATION:
; APPLICANT: MACFARLAN, RODERICK I.
; APPLICANT: MALLIAROS, JIM
; TITLE OF INVENTION: CHELATING IMMUNOSTIMULATING COMPLEXES
; FILE REFERENCE: 017227/0149
; CURRENT APPLICATION NUMBER: US/09/367,309A
; CURRENT FILING DATE: 1999-08-11
; PRIOR APPLICATION NUMBER: PCT/AU98/00080
; PRIOR FILING DATE: 1998-02-13
; PRIOR APPLICATION NUMBER: AU PO 5178
; PRIOR FILING DATE: 1997-02-19
; NUMBER OF SEQ ID NOS: 6
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; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
; LENGTH: 266
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-09-367-309A-1

Query Match          100.0%; Score 53; DB 2; Length 266;
Best Local Similarity 100.0%; Pred. No. 0.068;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 TTDLYCYEQ 9
Db      179 TTDLYCYEQ 187

RESULT 43
US-09-501-097A-25
; Sequence 25, Application US/09501097A
; Patent No. 6734173
; GENERAL INFORMATION:
; APPLICANT: Tzyy-Chouu Wu
; APPLICANT: Chien-Fu Hung
; TITLE OF INVENTION: IMPROVED HSP DNA VACCINES
; FILE REFERENCE: 2240-169349
; CURRENT APPLICATION NUMBER: US/09/501,097A
; CURRENT FILING DATE: 2000-02-09
; NUMBER OF SEQ ID NOS: 25
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 25
; LENGTH: 287
; TYPE: PRT
; ORGANISM: Human papillomavirus/Mouse
US-09-501-097A-25

Query Match          100.0%; Score 53; DB 2; Length 287;
Best Local Similarity 100.0%; Pred. No. 0.074;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 TTDLYCYEQ 9
Db      208 TTDLYCYEQ 216

RESULT 44
US-09-613-303-33
; Sequence 33, Application US/09613303
; Patent No. 6495347
; GENERAL INFORMATION:
; APPLICANT: Siegel, Marvin
; APPLICANT: Chu, N. Randall
; APPLICANT: Mizen, Lee A.
; TITLE OF INVENTION: INDUCTION OF A TH1-LIKE RESPONSE IN VITRO
; FILE REFERENCE: 12071/002001
; CURRENT APPLICATION NUMBER: US/09/613,303
; CURRENT FILING DATE: 2000-07-10
; PRIOR APPLICATION NUMBER: US 60/143,757
; PRIOR FILING DATE: 1999-07-08
; NUMBER OF SEQ ID NOS: 55
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 33
; LENGTH: 295
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: fusion sequence
US-09-613-303-33

Query Match          100.0%; Score 53; DB 2; Length 295;
Best Local Similarity 100.0%; Pred. No. 0.076;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 TTDLYCYEQ 9
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Db 216 TTDLXCYEQ 224

RESULT 45
US-10-267-311-33
; Sequence 33, Application US/10267311
; Patent No. 6657055
; GENERAL INFORMATION:
; APPLICANT: Siegel, Marvin
; APPLICANT: Chu, N. Randall
; APPLICANT: Mizzen, Lee A.
; TITLE OF INVENTION: INDUCTION OF A TH1-LIKE RESPONSE IN VITRO
; FILE REFERENCE: 12071/002001
; CURRENT APPLICATION NUMBER: US/10/267,311
; PRIOR FILING DATE: 2002-10-09
; PRIOR APPLICATION NUMBER: US/09/613,303
; PRIOR FILING DATE: 2000-07-10
; PRIOR APPLICATION NUMBER: US 60/143,757
; PRIOR FILING DATE: 1999-07-08
; NUMBER OF SEQ ID NOS: 55
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 33
; LENGTH: 295
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: fusion sequence
US-10-267-311-33

Query Match 100.0%; Score 53; DB 2; Length 295;
Best Local Similarity 100.0%; Pred. No. 0.076;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 TTDLXCYEQ 9
Db 216 TTDLXCYEQ 224

RESULT 46
US-09-613-303-25
; Sequence 25, Application US/09613303
; Patent No. 6495347
; GENERAL INFORMATION:
; APPLICANT: Siegel, Marvin
; APPLICANT: Chu, N. Randall
; APPLICANT: Mizzen, Lee A.
; TITLE OF INVENTION: INDUCTION OF A TH1-LIKE RESPONSE IN VITRO
; FILE REFERENCE: 12071/002001
; CURRENT APPLICATION NUMBER: US/09/613,303
; PRIOR FILING DATE: 2000-07-10
; PRIOR APPLICATION NUMBER: US 60/143,757
; PRIOR FILING DATE: 1999-07-08
; NUMBER OF SEQ ID NOS: 55
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 25
; LENGTH: 324
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: fusion sequence
US-09-613-303-25

Query Match 100.0%; Score 53; DB 2; Length 324;
Best Local Similarity 100.0%; Pred. No. 0.083;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 TTDLXCYEQ 9
Db 245 TTDLXCYEQ 253

RESULT 47

US-10-267-311-25
; Sequence 25, Application US/10267311
; Patent No. 6657055
; GENERAL INFORMATION:
; APPLICANT: Siegel, Marvin
; APPLICANT: Chu, N. Randall
; APPLICANT: Mizzen, Lee A.
; TITLE OF INVENTION: INDUCTION OF A TH1-LIKE RESPONSE IN VITRO
; FILE REFERENCE: 12071/002001
; CURRENT APPLICATION NUMBER: US/10/267,311
; PRIOR FILING DATE: 2002-10-09
; PRIOR APPLICATION NUMBER: US/09/613,303
; PRIOR FILING DATE: 2000-07-10
; PRIOR APPLICATION NUMBER: US 60/143,757
; PRIOR FILING DATE: 1999-07-08
; NUMBER OF SEQ ID NOS: 55
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 25
; LENGTH: 324
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: fusion sequence
US-10-267-311-25

Query Match 100.0%; Score 53; DB 2; Length 324;
Best Local Similarity 100.0%; Pred. No. 0.083;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 TTDLXCYEQ 9
Db 245 TTDLXCYEQ 253

RESULT 48
US-09-485-885-6
; Sequence 6, Application US/09485885
; Patent No. 6342224
; GENERAL INFORMATION:
; APPLICANT: Bruck, Claudine
; APPLICANT: Cabazon Silva, Teresa
; APPLICANT: Delisse, Anne-Marie Eva Fernande
; APPLICANT: Gerard, Catherine Marie Ghislaine
; APPLICANT: Lombardo-Bencheikh, Angela
; TITLE OF INVENTION: Vaccine
; FILE REFERENCE: B45107
; CURRENT APPLICATION NUMBER: US/09/485,885
; PRIOR FILING DATE: 2000-02-18
; PRIOR APPLICATION NUMBER: PCT/EP98/05285
; PRIOR FILING DATE: 1998-08-17
; PRIOR APPLICATION NUMBER: GB 9717953.5
; PRIOR FILING DATE: 1997-08-22
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 6
; LENGTH: 371
; TYPE: PRT
; ORGANISM: Homo sapien
US-09-485-885-6

Query Match 100.0%; Score 53; DB 2; Length 371;
Best Local Similarity 100.0%; Pred. No. 0.096;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 TTDLXCYEQ 9
Db 283 TTDLXCYEQ 291

RESULT 49
US-09-485-885-14
; Sequence 14, Application US/09485885
; Patent No. 6342224

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; GENERAL INFORMATION:
; APPLICANT: Bruck, Claudine
; APPLICANT: Cabezon Silva, Teresa
; APPLICANT: Delisse, Anne-Marie Eva Fernande
; APPLICANT: Gerard, Catherine Marie Ghislaine
; APPLICANT: Lombardo-Bencheikh, Angela
; TITLE OF INVENTION: Vaccine
; FILE REFERENCE: B45107
; CURRENT APPLICATION NUMBER: US/09/485,885
; CURRENT FILING DATE: 2000-02-18
; PRIOR APPLICATION NUMBER: PCT/EP98/05285
; PRIOR FILING DATE: 1998-08-17
; PRIOR APPLICATION NUMBER: GB 9717953.5
; PRIOR FILING DATE: 1997-08-22
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 14
; LENGTH: 390
; TYPE: PRT
; ORGANISM: Homo sapien
US-09-485-885-14
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Query Match 100.0%; Score 53; DB 2; Length 390;
Best Local Similarity 100.0%; Pred. No. 0.1;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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OY 1 TTDLXCYEQ 9
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Db 302 TTDLXCYEQ 310
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RESULT 50
US-09-501-097A-22
; Sequence 22, Application US/09501097A
; Patent No. 6734173
; GENERAL INFORMATION:
; APPLICANT: Tzzy-Chouu Mu
; APPLICANT: Chien-Pu Hung
; TITLE OF INVENTION: IMPROVED HSP DNA VACCINES
; FILE REFERENCE: 2240-169349
; CURRENT APPLICATION NUMBER: US/09/501,097A
; CURRENT FILING DATE: 2000-02-09
; NUMBER OF SEQ ID NOS: 25
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 22
; LENGTH: 420
; TYPE: PRT
; ORGANISM: Mouse/Pseudomonas
US-09-501-097A-22
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Query Match 100.0%; Score 53; DB 2; Length 420;
Best Local Similarity 100.0%; Pred. No. 0.11;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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OY 1 TTDLXCYEQ 9
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Db 335 TTDLXCYEQ 343
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Search completed: May 5, 2006, 07:09:55
Job time : 31.75 secs
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GenCore version 5.1.7
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OM protein - protein search, using sw model

Run on: May 5, 2006, 08:50:57 ; Search time 57 Seconds
(without alignments)
65.973 Million cell updates/sec

Title: US-08-170-344-38
Perfect score: 53
Sequence: 1 TTDLYCYEQ 9

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1867569 seqs, 417829326 residues

Total number of hits satisfying chosen parameters: 1867569

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 1000 summaries

Database : Published Applications_AA_Main:*
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2: /cgn2_6/ptodata/1/pubppaa/US08_PUBCOMB.pep:*
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4: /cgn2_6/ptodata/1/pubppaa/US10a_PUBCOMB.pep:*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
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2	53	100.0	15	4	US-10-648-547-81
3	53	100.0	15	4	US-10-476-570-47
4	53	100.0	15	4	US-10-306-541-65
5	53	100.0	15	4	US-10-306-541-81
6	53	100.0	20	4	US-10-432-465-45
7	53	100.0	20	5	US-10-890-526-70
8	53	100.0	21	4	US-10-612-818-7
9	53	100.0	21	4	US-10-476-570-15
10	53	100.0	21	5	US-10-995-902-7
11	53	100.0	30	3	US-09-828-645-3
12	53	100.0	30	5	US-10-827-007-3
13	53	100.0	30	5	US-10-827-083-3
14	53	100.0	30	5	US-09-728-466-1
15	53	100.0	98	3	US-09-820-765-4
16	53	100.0	98	3	US-09-824-017-4
17	53	100.0	98	3	US-09-986-118A-4
18	53	100.0	98	4	US-10-267-311-8
19	53	100.0	98	4	US-10-177-390-8
20	53	100.0	98	4	US-10-201-764-19
21	53	100.0	98	4	US-10-392-113-29
22	53	100.0	98	4	US-10-654-129-4
23	53	100.0	98	4	US-10-681-410-19
24	53	100.0	98	4	US-10-772-988-3
25	53	100.0	98	4	US-10-479-541-5
26	53	100.0	98	5	US-10-042-526A-4
27	53	100.0	98	5	US-10-657-399-1

28	53	100.0	98	5	US-10-858-384-12	Sequence 12, Appl
29	53	100.0	98	5	US-10-484-063-26	Sequence 26, Appl
30	53	100.0	98	5	US-10-343-448-5	Sequence 5, Appl
31	53	100.0	98	5	US-10-679-956-8	Sequence 8, Appl
32	53	100.0	98	5	US-10-367-057-17	Sequence 17, Appl
33	53	100.0	98	6	US-11-077-939-5	Sequence 5, Appl
34	53	100.0	99	4	US-10-115-440-7	Sequence 4, Appl
35	53	100.0	111	4	US-10-472-724-4	Sequence 12, Appl
36	53	100.0	121	4	US-10-267-311-12	Sequence 12, Appl
37	53	100.0	121	5	US-10-679-956-12	Sequence 35, Appl
38	53	100.0	198	4	US-10-267-311-35	Sequence 35, Appl
39	53	100.0	198	5	US-10-679-956-35	Sequence 1, Appl
40	53	100.0	220	4	US-10-000-903-1	Sequence 1, Appl
41	53	100.0	220	5	US-10-899-771-1	Sequence 12, Appl
42	53	100.0	239	4	US-10-000-903-12	Sequence 12, Appl
43	53	100.0	239	5	US-10-899-771-12	Sequence 1, Appl
44	53	100.0	266	3	US-09-367-309A-1	Sequence 5, Appl
45	53	100.0	289	4	US-10-115-440-5	Sequence 33, Appl
46	53	100.0	295	4	US-10-267-311-33	Sequence 25, Appl
47	53	100.0	324	5	US-10-267-311-25	Sequence 25, Appl
48	53	100.0	324	4	US-10-472-724-10	Sequence 10, Appl
49	53	100.0	334	5	US-10-679-956-25	Sequence 6, Appl
50	53	100.0	371	4	US-10-000-903-6	Sequence 6, Appl
51	53	100.0	371	5	US-10-899-771-6	Sequence 14, Appl
52	53	100.0	390	4	US-10-000-903-14	Sequence 14, Appl
53	53	100.0	390	5	US-10-899-771-14	Sequence 7, Appl
54	53	100.0	421	4	US-10-296-770-7	Sequence 19, Appl
55	53	100.0	493	5	US-10-267-311-19	Sequence 19, Appl
56	53	100.0	493	4	US-10-679-956-19	Sequence 17, Appl
57	53	100.0	639	5	US-10-267-311-17	Sequence 17, Appl
58	53	100.0	639	4	US-10-679-956-17	Sequence 51, Appl
59	53	100.0	641	5	US-10-267-311-51	Sequence 51, Appl
60	53	100.0	641	4	US-10-679-956-51	Sequence 51, Appl
61	53	100.0	647	5	US-10-267-311-53	Sequence 53, Appl
62	53	100.0	647	4	US-10-679-956-53	Sequence 53, Appl
63	53	100.0	648	5	US-10-267-311-29	Sequence 29, Appl
64	53	100.0	648	4	US-10-679-956-29	Sequence 29, Appl
65	53	100.0	648	5	US-10-267-311-41	Sequence 41, Appl
66	53	100.0	711	4	US-10-679-956-41	Sequence 41, Appl
67	53	100.0	724	5	US-10-267-311-45	Sequence 45, Appl
68	53	100.0	724	4	US-10-679-956-45	Sequence 45, Appl
69	53	100.0	724	5	US-09-891-823-23	Sequence 23, Appl
70	48	90.6	9	4	US-10-365-908-23	Sequence 23, Appl
71	48	90.6	9	5	US-10-871-138-23	Sequence 23, Appl
72	48	90.6	10	3	US-10-668-400-7	Sequence 7, Appl
73	48	90.6	10	4	US-10-668-400-7	Sequence 7, Appl
74	48	90.6	15	4	US-10-648-547-87	Sequence 87, Appl
75	48	90.6	15	4	US-10-306-541-87	Sequence 87, Appl
76	43	81.1	8	4	US-10-239-313A-260	Sequence 260, App
77	43	81.1	8	5	US-10-890-526-15	Sequence 15, Appl
78	43	81.1	9	5	US-10-924-377-8	Sequence 8, Appl
79	43	81.1	10	3	US-09-891-823-2	Sequence 2, Appl
80	43	81.1	10	4	US-10-365-908-2	Sequence 2, Appl
81	43	81.1	10	5	US-10-871-138-2	Sequence 2, Appl
82	43	81.1	15	4	US-10-648-547-72	Sequence 72, Appl
83	43	81.1	15	4	US-10-306-541-72	Sequence 72, Appl
84	43	81.1	20	4	US-10-476-570-61	Sequence 61, Appl
85	43	81.1	23	4	US-10-476-570-57	Sequence 57, Appl
86	43	81.1	23	5	US-10-858-384-14	Sequence 14, Appl
87	43	79.2	30	3	US-09-828-645-7	Sequence 7, Appl
88	42	79.2	30	5	US-10-827-007-7	Sequence 7, Appl
89	42	79.2	30	5	US-10-827-083-7	Sequence 7, Appl
90	42	79.2	805	4	US-10-367-367-9	Sequence 9, Appl
91	41	77.4	805	4	US-10-367-367-9	Sequence 9, Appl
92	41	77.4	805	5	US-10-918-337-9	Sequence 9, Appl
93	41	77.4	805	5	US-10-367-057-24	Sequence 24, Appl
94	41	77.4	93	4	US-10-424-599-178312	Sequence 178312, Sequence 67, Appl
95	40	75.5	197	4	US-10-080-254-67	Sequence 67, Appl
96	40	75.5	83	4	US-10-242-355-611	Sequence 8, Appl
97	38	71.7	83	4	US-10-000-903-8	Sequence 8, Appl
98	38	71.7	220	4	US-10-899-771-8	Sequence 8, Appl
99	38	71.7	220	5		
100	38	71.7	220	5		

101	38	71.7	289	4	US-10-369-493-10016	Sequence 10016, A	174	33	62.3	97	3	US-09-799-118-5	Sequence 5, Appl1
102	38	71.7	345	4	US-10-209-967-15	Sequence 15, Appl1	175	33	62.3	105	4	US-10-425-115-191664	Sequence 191664, A
103	38	71.7	345	4	US-10-209-967-16	Sequence 16, Appl1	176	33	62.3	112	4	US-10-425-115-296370	Sequence 296370, A
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105	37	69.8	15	4	US-10-648-547-85	Sequence 85, Appl1	178	33	62.3	155	5	US-10-617-320-4033	Sequence 4033, Ap
106	37	69.8	15	4	US-10-306-541-85	Sequence 85, Appl1	179	33	62.3	158	4	US-10-425-115-234709	Sequence 234709, A
107	36	67.9	15	4	US-10-648-547-80	Sequence 80, Appl1	180	33	62.3	212	4	US-10-282-122A-67015	Sequence 67015, A
108	36	67.9	15	4	US-10-306-541-80	Sequence 80, Appl1	181	33	62.3	257	4	US-10-369-493-9249	Sequence 9249, Ap
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111	36	67.9	173	4	US-10-437-963-167053	Sequence 167053, A	184	33	62.3	297	3	US-10-424-599-1380770	Sequence 288070, A
112	36	67.9	287	4	US-10-424-599-171898	Sequence 171898, A	185	33	62.3	297	3	US-09-737-178-26	Sequence 26, Appl1
113	36	67.9	547	4	US-10-369-493-19062	Sequence 19062, A	186	33	62.3	297	3	US-09-286-488-56	Sequence 26, Appl1
114	36	67.9	547	4	US-10-369-493-19940	Sequence 19940, A	187	33	62.3	297	3	US-09-853-079-26	Sequence 26, Appl1
115	36	67.9	782	4	US-10-207-655-89	Sequence 89, Appl1	188	33	62.3	297	3	US-10-294-443-26	Sequence 26, Appl1
116	36	67.9	803	4	US-10-369-493-1441	Sequence 89, Appl1	189	33	62.3	303	5	US-10-734-049A-264	Sequence 264, App
117	36	67.9	1230	3	US-09-727-384-8	Sequence 8, Appl1	190	33	62.3	312	4	US-10-389-447-473	Sequence 473, App
118	36	67.9	1230	3	US-10-690-276-2	Sequence 2, Appl1	191	33	62.3	339	4	US-10-425-115-239415	Sequence 239415, A
119	36	67.9	1591	4	US-10-408-765A-692	Sequence 692, App	192	33	62.3	344	4	US-10-437-963-183298	Sequence 183298, A
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122	36	67.9	2214	4	US-10-114-270-208	Sequence 208, App	195	33	62.3	402	4	US-10-425-115-203773	Sequence 203773, A
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127	35	66.0	123	4	US-10-767-701-38665	Sequence 38665, A	200	33	62.3	489	4	US-10-015-115-79	Sequence 79, Appl1
128	35	66.0	193	4	US-10-724-972A-5416	Sequence 5416, App	201	33	62.3	493	4	US-10-106-698-5974	Sequence 5974, App
129	35	66.0	215	4	US-10-425-115-270990	Sequence 270990, A	202	33	62.3	496	4	US-10-015-115-20	Sequence 20, Appl1
130	35	66.0	235	5	US-10-751-845-157	Sequence 157, App	203	33	62.3	500	4	US-10-276-774-2164	Sequence 2164, App
131	35	66.0	237	5	US-10-751-845-158	Sequence 158, App	204	33	62.3	523	4	US-10-369-493-12750	Sequence 12750, A
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133	35	66.0	261	4	US-10-043-467-379	Sequence 379, App	206	33	62.3	598	6	US-11-061-626-82	Sequence 82, Appl1
134	35	66.0	354	5	US-10-751-845-160	Sequence 160, App	207	33	62.3	598	6	US-11-061-626-113	Sequence 113, App
135	35	66.0	828	4	US-10-369-493-3166	Sequence 3166, App	208	33	62.3	598	6	US-11-061-626-114	Sequence 114, App
136	35	66.0	828	4	US-10-369-493-3166	Sequence 3166, App	209	33	62.3	599	6	US-11-061-626-115	Sequence 115, App
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140	34	64.2	126	4	US-10-749-387-1	Sequence 1, Appl1	213	33	62.3	649	6	US-11-097-143-12990	Sequence 12990, A
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142	34	64.2	400	4	US-10-398-037-29	Sequence 29, Appl1	215	33	62.3	655	5	US-10-741-600-1174	Sequence 1174, App
143	34	64.2	486	4	US-10-195-144-23	Sequence 23, Appl1	216	33	62.3	677	4	US-10-425-114-58816	Sequence 58816, A
144	34	64.2	486	4	US-10-345-072-23	Sequence 23, Appl1	217	33	62.3	677	4	US-10-437-963-190071	Sequence 190071, A
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146	34	64.2	513	5	US-10-220-335-227	Sequence 227, App	219	33	62.3	682	4	US-10-369-493-1471	Sequence 1471, App
147	34	64.2	542	3	US-09-792-200B-16	Sequence 16, Appl1	220	33	62.3	773	4	US-10-166-761-9451	Sequence 9451, App
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149	34	64.2	592	3	US-09-955-999-112	Sequence 112, App	222	33	62.3	1642	5	US-10-741-600-1176	Sequence 1176, App
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151	34	64.2	624	6	US-11-072-129-6	Sequence 6, Appl1	224	33	62.3	2284	6	US-11-097-143-41094	Sequence 41094, A
152	34	64.2	685	4	US-10-369-493-12820	Sequence 12820, A	225	33	62.3	2397	5	US-10-631-467-1518	Sequence 1518, App
153	34	64.2	867	4	US-10-202-675-6	Sequence 6, Appl1	226	33	62.3	2409	5	US-10-177-293-90	Sequence 90, Appl1
154	34	64.2	867	4	US-10-437-963-179926	Sequence 179926, A	227	33	62.3	2409	5	US-10-741-600-1175	Sequence 1175, App
155	34	64.2	870	5	US-10-872-645-19	Sequence 19, Appl1	228	33	62.3	2409	5	US-10-741-600-1177	Sequence 1177, App
156	34	64.2	899	4	US-10-367-978-64	Sequence 64, Appl1	229	33	62.3	2409	5	US-10-482-029-194	Sequence 194, App
157	34	64.2	948	5	US-10-508-343-2	Sequence 2, Appl1	230	33	62.3	2409	5	US-10-852-335A-184	Sequence 184, App
158	34	64.2	1034	5	US-10-508-343-1	Sequence 1, Appl1	231	33	62.3	2641	3	US-09-964-956-63	Sequence 63, Appl1
159	34	64.2	2368	3	US-09-815-242-5635	Sequence 5635, App	232	33	62.3	2641	3	US-10-964-956-63	Sequence 63, Appl1
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161	34	64.2	2478	3	US-09-815-242-5816	Sequence 5816, App	234	33	62.3	2811	4	US-09-964-956-27	Sequence 27, Appl1
162	34	64.2	2478	3	US-09-815-242-12967	Sequence 12967, A	235	33	62.3	2814	4	US-09-964-956-25	Sequence 25, Appl1
163	34	64.2	2478	3	US-10-470-048B-220	Sequence 220, App	236	33	62.3	3396	5	US-10-788-792-170	Sequence 170, App
164	34	64.2	2481	4	US-10-282-122A-43762	Sequence 43762, A	237	33	62.3	3396	5	US-10-741-600-1172	Sequence 1172, App
165	34	64.2	4796	6	US-11-097-143-2787	Sequence 2787, App	238	33	62.3	3396	5	US-10-741-600-1173	Sequence 1173, App
166	34	62.3	19	5	US-10-751-845-67	Sequence 67, Appl1	239	33	62.3	3396	5	US-10-631-467-1773	Sequence 1773, App
167	33	62.3	20	4	US-10-433-465-46	Sequence 46, Appl1	240	33	62.3	11300	9	US-10-250-304A-2	Sequence 2, Appl1
168	33	62.3	20	5	US-10-890-526-71	Sequence 71, Appl1	241	32	60.4	9	4	US-09-891-823-75	Sequence 75, Appl1
169	33	62.3	62	4	US-10-424-599-193029	Sequence 193029, A	242	32	60.4	9	4	US-10-133-210-272	Sequence 272, App
170	33	62.3	66	4	US-10-425-115-286653	Sequence 286653, A	243	32	60.4	9	4	US-10-052-578-316	Sequence 316, App
171	33	62.3	74	4	US-10-425-115-237078	Sequence 237078, A	244	32	60.4	9	4	US-10-053-520-316	Sequence 316, App
172	33	62.3	77	4	US-10-425-115-318150	Sequence 318150, A	245	32	60.4	9	4	US-10-365-908-75	Sequence 75, Appl1
173	33	62.3	91	4	US-10-425-115-239858	Sequence 239858, A	246	32	60.4	9	4	US-10-053-498B-316	Sequence 316, App

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248	32	60.4	9	4	US-10-367-593-90	Sequence 90, Appl	321	32	60.4	247	4	US-10-389-566-902	Sequence 902, App	
249	32	60.4	9	4	US-10-367-594-90	Sequence 90, Appl	322	32	60.4	252	4	US-10-700-171-14	Sequence 14, Appl	
250	32	60.4	9	4	US-10-367-654-90	Sequence 90, Appl	323	32	60.4	299	4	US-10-437-963-140567	Sequence 140567, A	
251	32	60.4	9	4	US-10-367-658-90	Sequence 90, Appl	324	32	60.4	299	4	US-10-700-171-16	Sequence 16, Appl	
252	32	60.4	9	4	US-10-367-668-90	Sequence 90, Appl	325	32	60.4	299	4	US-10-767-701-45107	Sequence 45107, A	
253	32	60.4	9	4	US-10-367-674-90	Sequence 90, Appl	326	32	60.4	319	4	US-10-424-599-196082	Sequence 196082, A	
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259	32	60.4	9	5	US-10-877-930-11	Sequence 11, Appl	332	32	60.4	397	3	US-09-932-227-68	Sequence 68, Appl	
260	32	60.4	9	5	US-10-871-138-75	Sequence 75, Appl	333	32	60.4	397	4	US-10-183-708-68	Sequence 68, Appl	
261	32	60.4	9	5	US-10-873-594-11	Sequence 11, Appl	334	32	60.4	397	4	US-10-601-309-68	Sequence 16677, A	
262	32	60.4	9	5	US-10-776-521B-69	Sequence 69, Appl	335	32	60.4	397	6	US-11-097-143-16677	Sequence 5972, Ap	
263	32	60.4	9	5	US-10-820-067A-69	Sequence 69, Appl	336	32	60.4	414	5	US-10-501-282-5972	Sequence 5974, Ap	
264	32	60.4	10	3	US-09-891-823-90	Sequence 90, Appl	337	32	60.4	414	5	US-10-501-282-5974	Sequence 4, Appl1	
265	32	60.4	10	5	US-10-365-908-90	Sequence 90, Appl	338	32	60.4	442	4	US-10-422-555-4	Sequence 255737, A	
266	32	60.4	15	5	US-10-871-138-90	Sequence 90, Appl	339	32	60.4	464	4	US-10-425-115-255737	Sequence 12, Appl	
267	32	60.4	16	5	US-10-990-767-33	Sequence 33, Appl	340	32	60.4	517	5	US-10-475-203A-12	Sequence 16, Appl	
268	32	60.4	20	3	US-09-794-517-16	Sequence 16, Appl	341	32	60.4	517	5	US-10-496-207-16	Sequence 420, App	
269	32	60.4	20	3	US-09-794-517-17	Sequence 17, Appl	342	32	60.4	559	4	US-10-389-566-420	Sequence 768, App	
270	32	60.4	20	3	US-09-794-529-16	Sequence 16, Appl	343	32	60.4	559	4	US-10-389-566-768	Sequence 122695, A	
271	32	60.4	20	3	US-09-794-529-17	Sequence 17, Appl	344	32	60.4	608	4	US-10-437-963-122695	Sequence 66982, Ap	
272	32	60.4	20	3	US-09-794-832-16	Sequence 16, Appl	345	32	60.4	608	4	US-11-097-143-9867	Sequence 104787, A	
273	32	60.4	20	3	US-09-794-832-17	Sequence 17, Appl	346	32	60.4	611	6	US-10-282-122A-66982	Sequence 129686, A	
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276	32	60.4	20	4	US-10-171-734-16	Sequence 16, Appl	349	32	60.4	860	4	US-10-041-018-307	Sequence 121873, A	
277	32	60.4	20	4	US-10-171-734-17	Sequence 17, Appl	350	32	60.4	916	4	US-11-097-143-21873	Sequence 806, App	
278	32	60.4	20	4	US-10-367-580-16	Sequence 16, Appl	351	32	60.4	920	6	US-10-225-066A-806	Sequence 422, App	
279	32	60.4	20	4	US-10-367-580-17	Sequence 17, Appl	352	32	60.4	959	4	US-10-374-780A-422	Sequence 1245, App	
280	32	60.4	20	4	US-10-367-593-16	Sequence 16, Appl	353	32	60.4	959	4	US-10-389-566-1245	Sequence 6104, Ap	
281	32	60.4	20	4	US-10-367-593-17	Sequence 17, Appl	354	32	60.4	959	5	US-10-739-930-6104	Sequence 806, App	
282	32	60.4	20	4	US-10-367-594-16	Sequence 16, Appl	355	32	60.4	959	5	US-10-389-566-1236	Sequence 1236, Ap	
283	32	60.4	20	4	US-10-367-594-17	Sequence 17, Appl	356	32	60.4	959	5	US-10-389-566-787	Sequence 787, App	
284	32	60.4	20	4	US-10-367-654-16	Sequence 16, Appl	357	32	60.4	1018	4	US-10-389-566-787	Sequence 76712, A	
285	32	60.4	20	4	US-10-367-654-17	Sequence 17, Appl	358	32	60.4	1045	4	US-10-389-566-2273	Sequence 2273, Ap	
286	32	60.4	20	4	US-10-367-658-16	Sequence 16, Appl	359	32	60.4	1084	4	US-09-801-368-304	Sequence 304, App	
287	32	60.4	20	4	US-10-367-658-17	Sequence 17, Appl	360	32	60.4	1155	3	US-10-369-493-21971	Sequence 21971, A	
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289	32	60.4	20	4	US-10-367-668-17	Sequence 17, Appl	362	32	60.4	1155	4	US-10-451-467A-174	Sequence 55074, A	
290	32	60.4	20	4	US-10-367-674-16	Sequence 16, Appl	363	32	60.4	1155	4	US-10-451-467A-174	Sequence 306, App	
291	32	60.4	20	4	US-10-367-674-17	Sequence 17, Appl	364	32	60.4	1155	4	US-10-451-467A-174	Sequence 1822, App	
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293	32	60.4	62	4	US-10-424-599-221973	Sequence 275111, A	366	32	60.4	1356	6	US-11-097-143-12051	Sequence 786, App	
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298	32	60.4	83	4	US-10-437-963-131524	Sequence 131524, A	371	32	60.4	1810	6	US-11-097-143-40374	Sequence 615, App	
299	32	60.4	83	4	US-10-437-963-131524	Sequence 131524, A	372	32	60.4	2364	4	US-10-205-331-66	Sequence 216, App	
300	32	60.4	98	5	US-10-367-057-12	Sequence 12, Appl	373	32	60.4	2468	5	US-10-755-889-615	Sequence 615, App	
301	32	60.4	99	4	US-10-264-049-4069	Sequence 4069, Ap	374	32	60.4	2668	5	US-10-489-740-216	Sequence 46995, A	
302	32	60.4	102	4	US-10-437-963-129751	Sequence 129751, A	375	32	60.4	2668	5	US-10-489-740-216	Sequence 175088, A	
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304	32	60.4	109	4	US-10-424-599-154260	Sequence 154260, A	377	32	60.4	31.5	900	6	US-11-097-143-40986	Sequence 46995, A
305	32	60.4	120	5	US-10-739-930-9024	Sequence 9024, Ap	378	32	60.4	31.5	900	6	US-11-097-143-40986	Sequence 46995, A
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599	31	58.5	911	4	US-10-245-147-52	Sequence 52, Appli	672	31	58.5	911	4	US-10-246-305-52	Sequence 52, Appli
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602	31	58.5	911	4	US-10-246-210-52	Sequence 52, Appli	675	31	58.5	911	4	US-10-247-036-52	Sequence 52, Appli
603	31	58.5	911	4	US-10-239-196-52	Sequence 52, Appli	676	31	58.5	911	4	US-10-243-255-52	Sequence 52, Appli
604	31	58.5	911	4	US-10-243-024-52	Sequence 52, Appli	677	31	58.5	911	4	US-10-243-255-52	Sequence 52, Appli
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607	31	58.5	911	4	US-10-245-880-52	Sequence 52, Appli	680	31	58.5	911	4	US-10-237-496-52	Sequence 52, Appli
608	31	58.5	911	4	US-10-245-033-52	Sequence 52, Appli	681	31	58.5	911	4	US-10-242-074-52	Sequence 52, Appli
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611	31	58.5	911	4	US-10-245-427-52	Sequence 52, Appli	684	31	58.5	911	4	US-10-242-574-52	Sequence 52, Appli

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691	31	58.5	911	4	US-10-197-942-52	Sequence 52, Appl	764	30	56.6	176	4	US-10-238-075-913	Sequence 913, App
692	31	58.5	911	4	US-10-238-196-52	Sequence 52, Appl	765	30	56.6	185	4	US-10-425-115-324431	Sequence 324431,
693	31	58.5	911	4	US-10-245-013-52	Sequence 52, Appl	766	30	56.6	190	4	US-10-425-115-218494	Sequence 194994,
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699	31	58.5	911	5	US-10-983-340-21	Sequence 21, Appl	772	30	56.6	227	5	US-10-899-971-16	Sequence 16, Appl
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740	30	56.6	95	4	US-10-425-115-234265	Sequence 234265,	813	30	56.6	396	4	US-10-310-154-456	Sequence 456, App
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856	30	56.6	628	4	US-10-312-352-5	Sequence 5, Appl	929	30	56.6	3705	5	US-10-687-268-10	Sequence 30, Appl
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862	30	56.6	635	5	US-10-872-155-520	Sequence 520, App	935	29	54.7	18	4	US-10-792-582-409	Sequence 409, App
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874	30	56.6	711	4	US-10-437-963-109440	Sequence 109440, A	947	29	54.7	48	4	US-10-424-559-194661	Sequence 194661, A
875	30	56.6	788	4	US-10-437-963-196110	Sequence 196110, A	948	29	54.7	50	4	US-10-424-559-201224	Sequence 201224, A
876	30	56.6	803	4	US-10-437-963-1136814	Sequence 136814, A	949	29	54.7	50	4	US-10-425-115-167347	Sequence 167347, A
877	30	56.6	807	5	US-10-450-763-44552	Sequence 44552, A	950	29	54.7	57	4	US-10-424-559-169163	Sequence 169163, A
878	30	56.6	809	4	US-10-437-963-137541	Sequence 137541, A	951	29	54.7	57	4	US-10-425-115-267918	Sequence 267918, A
879	30	56.6	829	5	US-10-478-926-27	Sequence 27, Appl	952	29	54.7	57	4	US-10-425-115-267918	Sequence 267918, A
880	30	56.6	832	3	US-09-824-129-3	Sequence 3, Appl	953	29	54.7	57	4	US-10-425-115-267918	Sequence 267918, A
881	30	56.6	832	4	US-10-202-675-4	Sequence 4, Appl	954	29	54.7	57	4	US-10-425-115-267918	Sequence 267918, A
882	30	56.6	832	4	US-10-359-464-3	Sequence 29, Appl	955	29	54.7	57	4	US-10-425-115-267918	Sequence 267918, A
883	30	56.6	832	5	US-10-478-926-29	Sequence 29, Appl	956	29	54.7	59	5	US-10-424-559-240981	Sequence 240981, A
884	30	56.6	832	5	US-10-559-004-46	Sequence 46, Appl	957	29	54.7	59	5	US-10-424-559-240981	Sequence 240981, A
885	30	56.6	832	5	US-10-756-149-5606	Sequence 5606, App	958	29	54.7	60	4	US-10-424-559-240981	Sequence 240981, A
886	30	56.6	846	4	US-10-041-018-181	Sequence 181, App	959	29	54.7	61	4	US-10-424-559-240981	Sequence 240981, A
887	30	56.6	846	4	US-10-041-018-279	Sequence 279, App	960	29	54.7	61	4	US-10-424-559-240981	Sequence 240981, A
888	30	56.6	846	4	US-10-041-018-280	Sequence 280, App	961	29	54.7	61	4	US-10-424-559-240981	Sequence 240981, A
889	30	56.6	852	4	US-10-437-963-196988	Sequence 196988, A	962	29	54.7	61	4	US-10-424-559-240981	Sequence 240981, A
890	30	56.6	852	4	US-10-437-963-122232	Sequence 122232, A	963	29	54.7	62	4	US-10-424-559-240981	Sequence 240981, A
891	30	56.6	866	4	US-10-041-018-176	Sequence 176, App	964	29	54.7	62	4	US-10-424-559-240981	Sequence 240981, A
892	30	56.6	866	4	US-10-041-018-275	Sequence 275, App	965	29	54.7	62	4	US-10-424-559-240981	Sequence 240981, A
893	30	56.6	881	5	US-10-711-708-12	Sequence 12, Appl	966	29	54.7	63	4	US-10-424-559-240981	Sequence 240981, A
894	30	56.6	889	5	US-10-737-450-80	Sequence 80, Appl	967	29	54.7	63	4	US-10-424-559-240981	Sequence 240981, A
895	30	56.6	900	5	US-10-732-923-8078	Sequence 8078, Ap	968	29	54.7	63	4	US-10-424-559-240981	Sequence 240981, A
896	30	56.6	900	5	US-10-450-763-57406	Sequence 57406, A	969	29	54.7	63	4	US-10-424-559-240981	Sequence 240981, A
897	30	56.6	917	4	US-10-501-807-6	Sequence 6, Appl	970	29	54.7	64	4	US-10-424-559-240981	Sequence 240981, A
898	30	56.6	935	4	US-10-282-122A-55890	Sequence 55890, A	971	29	54.7	64	4	US-10-424-559-240981	Sequence 240981, A
899	30	56.6	946	4	US-10-282-122A-55890	Sequence 55890, A	972	29	54.7	64	4	US-10-424-559-240981	Sequence 240981, A
900	30	56.6	963	5	US-10-501-282-4602	Sequence 4602, Ap	973	29	54.7	67	4	US-10-424-559-258265	Sequence 258265, A
901	30	56.6	975	6	US-11-097-143-7140	Sequence 7140, Ap	974	29	54.7	68	4	US-10-059-720-7	Sequence 720-7, A
902	30	56.6	994	4	US-10-437-963-149562	Sequence 149562, A	975	29	54.7	68	4	US-10-059-720-7	Sequence 720-7, A
903	30	56.6	1012	5	US-10-501-282-4604	Sequence 4604, Ap	976	29	54.7	68	4	US-10-372-876-196	Sequence 196, App

977 29 54.7 69 4 US-10-425-115-194107
978 29 54.7 69 4 US-10-425-115-239225
979 29 54.7 70 5 US-10-617-320-3601
980 29 54.7 70 4 US-10-425-115-203258
981 29 54.7 71 3 US-09-925-300-1834
982 29 54.7 71 4 US-10-424-599-147068
983 29 54.7 71 4 US-10-425-115-242160
984 29 54.7 72 4 US-10-425-115-212294
985 29 54.7 73 4 US-10-437-963-162912
986 29 54.7 74 4 US-10-425-115-236144
987 29 54.7 76 4 US-10-424-599-275935
988 29 54.7 76 4 US-10-425-115-280059
989 29 54.7 77 4 US-10-424-599-198090
990 29 54.7 77 4 US-10-425-115-359877
991 29 54.7 78 4 US-10-425-115-331307
992 29 54.7 79 4 US-10-424-599-184258
993 29 54.7 79 5 US-10-472-928-2468
994 29 54.7 81 4 US-10-106-698-5181
995 29 54.7 81 5 US-10-617-320-3710
996 29 54.7 82 4 US-10-425-115-353129
997 29 54.7 82 5 US-10-617-320-2851
998 29 54.7 83 4 US-10-424-599-209615
999 29 54.7 83 4 US-10-425-115-287865
1000 29 54.7 83 4 US-10-425-115-355598

ALIGNMENTS

Sequence 194107,
Sequence 239225,
Sequence 3601, Ap
Sequence 203258,
Sequence 1834, Ap
Sequence 147068,
Sequence 242160,
Sequence 212294,
Sequence 162912,
Sequence 236144,
Sequence 275935,
Sequence 280059,
Sequence 198090,
Sequence 359877,
Sequence 331307,
Sequence 184258,
Sequence 2468, Ap
Sequence 5181, Ap
Sequence 3710, Ap
Sequence 353129,
Sequence 2851, Ap
Sequence 209615,
Sequence 287865,
Sequence 355598,

RESULT 1
US-10-648-547-65
; Sequence 65, Application US/10648547
; Publication No. US20040147044A1
; GENERAL INFORMATION:
; APPLICANT: Mitelman, Abraham
; APPLICANT: Kanduc, Darja
; TITLE OF INVENTION: Improved Antigens
; FILE REFERENCE: 12354/9
; CURRENT APPLICATION NUMBER: US/10/648,547
; CURRENT FILING DATE: 2003-08-25
; PRIOR APPLICATION NUMBER: 10/306,541
; PRIOR FILING DATE: 11-25-2002
; PRIOR APPLICATION NUMBER: 60/333,249
; PRIOR FILING DATE: 11-23-2001
; NUMBER OF SEQ ID NOS: 108
; SOFTWARE: WordPerfect 8.0 for Windows
; SEQ ID NO 65
; LENGTH: 15
; TYPE: PRT
; ORGANISM: human papillomavirus
US-10-648-547-65
Query Match 100.0%; Score 53; DB 4; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.025;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
OY 1 TTDLXCYEQ 9
Db 2 TTDLXCYEQ 10
RESULT 2
US-10-648-547-81
; Sequence 81, Application US/10648547
; Publication No. US20040147044A1
; GENERAL INFORMATION:
; APPLICANT: Mitelman, Abraham
; APPLICANT: Kanduc, Darja
; TITLE OF INVENTION: Improved Antigens
; FILE REFERENCE: 12354/9
; CURRENT APPLICATION NUMBER: US/10/648,547
; CURRENT FILING DATE: 2003-08-25
; PRIOR APPLICATION NUMBER: 10/306,541

; PRIOR FILING DATE: 11-25-2002
; PRIOR APPLICATION NUMBER: 60/333,249
; PRIOR FILING DATE: 11-23-2001
; NUMBER OF SEQ ID NOS: 108
; SOFTWARE: WordPerfect 8.0 for Windows
; SEQ ID NO 81
; LENGTH: 15
; TYPE: PRT
; ORGANISM: human papillomavirus
US-10-648-547-81

Query Match 100.0%; Score 53; DB 4; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.025;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 TTDLXCYEQ 9
Db 1 TTDLXCYEQ 9

RESULT 3
US-10-476-570-47
; Sequence 47, Application US/10476570
; Publication No. US20040170644A1
; GENERAL INFORMATION:
; APPLICANT: COMMISSARIAT A L'ENERGIE ATOMIQUE
; APPLICANT: INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE
; APPLICANT: MAILLIERE, Bernard
; APPLICANT: BOURGAULT-VILLADA, Isabelle
; APPLICANT: POUEVILLE-MORATILLE, Sandra
; APPLICANT: GUILLET, Jean-Gerard
; TITLE OF INVENTION: Mixture of peptides derived from B6 and/or E7
; FILE REFERENCE: 45636-5071-US
; CURRENT APPLICATION NUMBER: US/10/476,570
; CURRENT FILING DATE: 2003-11-04
; PRIOR APPLICATION NUMBER: PCT/FR02/01533
; PRIOR FILING DATE: 2002-05-03
; PRIOR APPLICATION NUMBER: FR 01 05980
; PRIOR FILING DATE: 2001-05-04
; NUMBER OF SEQ ID NOS: 63
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 47
; LENGTH: 15
; TYPE: PRT
; ORGANISM: artificial sequence
; FEATURE:
; OTHER INFORMATION: Description of the artificial sequence: peptide E7 13-27
US-10-476-570-47

Query Match 100.0%; Score 53; DB 4; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.025;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
OY 1 TTDLXCYEQ 9
Db 7 TTDLXCYEQ 15
RESULT 4
US-10-306-541-65
; Sequence 65, Application US/10306541
; Publication No. US20040171081A1
; GENERAL INFORMATION:
; APPLICANT: Mitelman, Abraham
; APPLICANT: Kanduc, Darja
; TITLE OF INVENTION: Improved Antigens
; FILE REFERENCE: 12354/4
; CURRENT APPLICATION NUMBER: US/10/306,541
; CURRENT FILING DATE: 2003-11-25
; PRIOR APPLICATION NUMBER: 60/333,249
; PRIOR FILING DATE: 2001-11-23
; NUMBER OF SEQ ID NOS: 108

SOFTWARE: WordPerfect 8.0 for Windows
SEQ ID NO 65
LENGTH: 15
TYPE: PRT
ORGANISM: human papillomavirus
US-10-306-541-65

Query Match 100.0%; Score 53; DB 4; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.025;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TTDLXCYEQ 9
|||||
Db 2 TTDLXCYEQ 10

RESULT 5
US-10-306-541-81
Sequence 81, Application US/10306541
Publication No. US20040171081A1
GENERAL INFORMATION:
APPLICANT: Mitelman, Abraham
APPLICANT: Kanak, Darja
TITLE OF INVENTION: Improved Antigens
FILE REFERENCE: 12354/4
CURRENT APPLICATION NUMBER: US/10/306,541
CURRENT FILING DATE: 2003-11-25
PRIOR APPLICATION NUMBER: 60/333,249
PRIOR FILING DATE: 2001-11-23
NUMBER OF SEQ ID NOS: 108
SOFTWARE: WordPerfect 8.0 for Windows
SEQ ID NO 81
LENGTH: 15
TYPE: PRT
ORGANISM: human papillomavirus
US-10-306-541-81

Query Match 100.0%; Score 53; DB 4; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.025;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TTDLXCYEQ 9
|||||
Db 1 TTDLXCYEQ 9

RESULT 6
US-10-432-465-45
Sequence 45, Application US/10432465
Publication No. US20040091479A1
GENERAL INFORMATION:
APPLICANT: Nieland, John
APPLICANT: Kautmann, Andreas
APPLICANT: Kather, Angela
APPLICANT: Schanz, Manuela
TITLE OF INVENTION: T-Cell Epitopes of the Papillomavirus L1
TITLE OF INVENTION: Protein and E7 Protein and Their Use in Diagnosis and
TITLE OF INVENTION: Therapy
FILE REFERENCE: 50125/077001
CURRENT APPLICATION NUMBER: US/10/432,465
CURRENT FILING DATE: 2003-12-10
PRIOR APPLICATION NUMBER: PCT/EP01/14037
PRIOR FILING DATE: 2001-11-30
PRIOR APPLICATION NUMBER: DE 1005631.2
PRIOR FILING DATE: 2000-12-01
NUMBER OF SEQ ID NOS: 116
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 45
LENGTH: 20
TYPE: PRT
ORGANISM: Human papillomavirus
US-10-432-465-45

Query Match 100.0%; Score 53; DB 4; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.033;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TTDLXCYEQ 9
|||||
Db 8 TTDLXCYEQ 16

RESULT 7
US-10-890-526-70
Sequence 70, Application US/10890526
Publication No. US20040258708A1
GENERAL INFORMATION:
APPLICANT: Jochims, Ingrid
APPLICANT: Nieland, John
TITLE OF INVENTION: Cytotoxic T-Cell Epitopes of the
TITLE OF INVENTION: Papilloma Virus L1-Protein and Use Thereof in Diagnosis and
TITLE OF INVENTION: Therapy
FILE REFERENCE: 50125/036001
CURRENT APPLICATION NUMBER: US/10/890,526
CURRENT FILING DATE: 2004-07-13
PRIOR APPLICATION NUMBER: US/09/980,177
PRIOR FILING DATE: 2002-05-02
PRIOR APPLICATION NUMBER: PCT/EP00/05006
PRIOR FILING DATE: 2000-05-31
PRIOR APPLICATION NUMBER: DE 19925199.1
PRIOR FILING DATE: 1999-06-01
NUMBER OF SEQ ID NOS: 77
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 70
LENGTH: 20
TYPE: PRT
ORGANISM: Human papillomavirus type 16
US-10-890-526-70

Query Match 100.0%; Score 53; DB 5; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.033;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TTDLXCYEQ 9
|||||
Db 8 TTDLXCYEQ 16

RESULT 8
US-10-612-818-7
Sequence 7, Application US/10612818
Publication No. US20040110925A1
GENERAL INFORMATION:
APPLICANT: Impact Diagnostics
APPLICANT: Impact Diagnostics
TITLE OF INVENTION: Peptides from the E2, E6 and E7 Proteins of Human Papillomavirus
TITLE OF INVENTION: 18 for Detecting and/or Diagnosing Cervical and Other Human Papi
TITLE OF INVENTION: Associated Cancers
FILE REFERENCE: 3352-2-2
CURRENT APPLICATION NUMBER: US/10/612,818
CURRENT FILING DATE: 2003-07-01
PRIOR APPLICATION NUMBER: US 60/394,172
PRIOR FILING DATE: 2002-07-02
PRIOR APPLICATION NUMBER: US 09/828,645
PRIOR FILING DATE: 2001-04-05
NUMBER OF SEQ ID NOS: 8
SOFTWARE: PatentIn version 3.1
SEQ ID NO 7
LENGTH: 21
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Derived from the E7 early coding region of HPV 16
US-10-612-818-7

Query Match 100.0%; Score 53; DB 4; Length 21;

```

Best Local Similarity: 100.0%; Pred. No. 0.035; Indels 0; Gaps 0
Matches 9; Conservative 0; Mismatches 0;
Oy      1 TTDLVCEQ 9
         |||||
Db       2 TTDLVCEQ 10

```

```

1      RESULT 9
2      US-10-476-570-15
3      ; Sequence 15, Application US/10476570
4      ; Publication NO. US20040170644A1
5      ;
6      ; GENERAL INFORMATION:
7      ; APPLICANT: COMMISSARIAT A L'ENERGIE ATOMIQUE
8      ; APPLICANT: INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE
9      ; APPLICANT: MAILLIERE, Bernard
10     ; APPLICANT: BOURGAUT-VIILLAD, Isabelle
11     ; APPLICANT: POUVELE-MORATILLE, Sandra
12     ; APPLICANT: GUILLET, Jean-Gerard
13     ; TITLE OF INVENTION: Mixture of peptides derived from E6 and/or E7
14     ; TITLE OF INVENTION: papillomavirus proteins and uses thereof
15     ; FILE REFERENCE: 45636-5071-US
16     ; CURRENT APPLICATION NUMBER: US/10/476,570
17     ; CURRENT FILING DATE: 2003-11-04
18     ; PRIOR APPLICATION NUMBER: PCT/FR02/01533
19     ; PRIOR FILING DATE: 2002-05-03
20     ; PRIOR APPLICATION NUMBER: FR 01 05980
21     ; PRIOR FILING DATE: 2001-05-04
22     ; NUMBER OF SEQ ID NOS: 63
23     ; SOFTWARE: PatentIn Ver. 2.1
24     ; SEQ ID NO 15
25     ; LENGTH: 21
26     ; TYPE: PRT
27     ; ORGANISM: artificial sequence
28     ; FEATURE:
29     ; OTHER INFORMATION: Description of the artificial sequence: peptide E7 7-27
30     ; US-10-476-570-15

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Query Match	100.0%	Score 53	DB 4	Length 21
Best Local Similarity	100.0%	Pred. No. 0.035		
Matches 9	Conservative 0	Mismatches 0	Indels 0	Gaps 0

QY	1	TTDLYCYEQ	9
Db	13	TTDLYCYEQ	21

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RESULT 10
US-10-995-902-7
; Sequence 7, Application US/109595902
; Publication No. US20050221295A1
; GENERAL INFORMATION:
; APPLICANT: Impact Diagnostics
; APPLICANT: Impact Diagnostics
; TITLE OF INVENTION: Peptides from the E2, E6 and E7 Proteins of Human Papillomavirus
; TITLE OF INVENTION: 18 for Detecting and/or Diagnosing Cervical and Other Human Pap
; TITLE OF INVENTION: Associated Cancers
; FILE REFERENCE: 3352-2-2
; CURRENT APPLICATION NUMBER: US/10/995,902
; CURRENT FILING DATE: 2004-11-23
; PRIOR APPLICATION NUMBER: US 60/394,172
; PRIOR FILING DATE: 2002-07-02
; PRIOR APPLICATION NUMBER: US 09/828,645
; PRIOR FILING DATE: 2001-04-05
; NUMBER OF SEQ ID NOS: 8
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 7
; LENGTH: 21
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Derived from the E7 early coding region of HPV 16
US-10-995-902-7

```

Query Match	Score 53;	DB 5;	Length 21;
Best Local Similarity	100.0%;	Pred. No. 0.035;	
Matches	9;	Conservative	0; Mismatches 0; Indels 0; Gaps 0;
QY	1	TTDLXYCYEQ	9
DB	2	TTDLXYCYEQ	10

```

RESULT 11
US-09-828-645-3
; Sequence 3, Application US/09828645
; Publication No. US20030027750A1
; GENERAL INFORMATION:
; APPLICANT: Hu, Yao Xiong
; TITLE OF INVENTION: Immunological Methodology for Discerning Human Papillomaviruses
; FILE REFERENCE: 146-1-002
; CURRENT APPLICATION NUMBER: US/09/828,645
; CURRENT FILING DATE: 2001-04-05
; PRIOR APPLICATION NUMBER: US 60/194,796
; PRIOR FILING DATE: 2000-04-05
; NUMBER OF SEQ ID NOS: 8
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 3
; LENGTH: 30
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Derived from the E7 early region of HPV-16
US-09-828-645-3

```

Query Match	100.0%	Score 53	DB 3	length 30
Best Local Similarity	100.0%	Pred. NC. 0.049		
Matches 9	Conservative 0	Mismatches 0	Indels 0	Gaps 0

Qy	1	TTDLYCYEQ	9
Db	14	TTDLYCYEQ	22

```

RESULT 12
US-10-827-007-3
; Sequence 3, Application US/10827007
; Publication No. US20050042599A1
; GENERAL INFORMATION:
; APPLICANT: Impact Diagnostics
; APPLICANT: Hu, Yao Xiong
; TITLE OF INVENTION: Immunological Methodology for Discerning Human Papillomavirus
; TITLE OF INVENTION: Contemplating Peptides From the E7 Early Coding Region of HPV 16
; FILE REFERENCE: 3352-2-1-3
; CURRENT APPLICATION NUMBER: US/10/827,007
; CURRENT FILING DATE: 2004-04-19
; PRIOR APPLICATION NUMBER: US 09/828,645
; PRIOR FILING DATE: 2001-04-05
; PRIOR APPLICATION NUMBER: US 60/194,796
; PRIOR FILING DATE: 2000-04-05
; NUMBER OF SEQ ID NOS: 8
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 3
; LENGTH: 30
; TYPE: PRT
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: Derived from the E7 early coding region of HPV-16
US-10-827-007-3

```

Query Match	100.0%	Score 53;	DB 5;	Length 30;
Best Local Similarity	100.0%;	Pred. NO. 0.049;		
Matches	9;	Conservative	0;	Indels 0;
		Mismatches	0;	Gaps 0;
QY	1	TTDLYCYEQ	9	

Db 14 TTDLXCYEQ 22

RESULT 13

US-10-827-083-3
; Sequence 3, Application US/10827083
; Publication No. US20050042600A1
; GENERAL INFORMATION:
; APPLICANT: Impact Diagnostics
; APPLICANT: Hu, Yao Xiong
; TITLE OF INVENTION: Immunological Methodology for Discerning Human Papillomavirus
; TITLE OF INVENTION: Contemplating Peptides from the E7 Early Coding Region of HPV 16
; FILE REFERENCE: 3352-2-1-4
; CURRENT APPLICATION NUMBER: US/10/827,083
; CURRENT FILING DATE: 2004-04-19
; PRIOR APPLICATION NUMBER: US 09/828,645
; PRIOR FILING DATE: 2001-04-05
; PRIOR APPLICATION NUMBER: US 60/194,796
; PRIOR FILING DATE: 2000-04-05
; NUMBER OF SEQ ID NOS: 8
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO: 3
; LENGTH: 30
; TYPE: PRT
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: Derived from the E7 early coding region of HPV-16
US-10-827-083-3

Query Match 100.0%; Score 53; DB 5; Length 30;
Best Local Similarity 100.0%; Pred. No. 0.049;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TTDLXCYEQ 9
| | | | | | | | | |
Db 14 TTDLXCYEQ 22

RESULT 14

US-09-728-466-1
; Sequence 1, Application US/09728466
; Patent No. US20010029022A1
; GENERAL INFORMATION:
; APPLICANT: Fisher, Christopher
; APPLICANT: He, Manxia
; TITLE OF INVENTION: Methods to Identify Anti-Viral Agents
; FILE REFERENCE: 28341/6216
; CURRENT APPLICATION NUMBER: US/09/728,466
; CURRENT FILING DATE: 2000-12-01
; PRIOR APPLICATION NUMBER: 09/382,616
; PRIOR FILING DATE: 1999-08-25
; NUMBER OF SEQ ID NOS: 43
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO: 1
; LENGTH: 98
; TYPE: PRT
; ORGANISM: Papillomavirus sylvilagi
US-09-728-466-1

Query Match 100.0%; Score 53; DB 3; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.15;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TTDLXCYEQ 9
| | | | | | | | | |
Db 19 TTDLXCYEQ 27

RESULT 15
US-09-820-765-4
; Sequence 4, Application US/09820765
; Publication No. US20020039584A1
; GENERAL INFORMATION:

APPLICANT: BURGER, Alexander
; HALLEK, Michael
; TITLE OF INVENTION: PAPILLOMA VIRUS CAPSOMERE VACCINE
; FORMULATIONS AND METHODS OF USE

NUMBER OF SEQUENCES: 28

CORRESPONDENCE ADDRESS:
ADDRESSEE: FOLEY & LARDNER
STREET: 3000 K Street, N.W.
CITY: Washington

STATE: D.C.
COUNTRY: U.S.A.
ZIP: 20007-5109

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/820,765
FILING DATE: 30-Mar-2001
CLASSIFICATION: <unknown>

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 09/026,896
FILING DATE: 20-FEB-1998

ATTORNEY/AGENT INFORMATION:

NAME: Sandercock, Colin G.
REGISTRATION NUMBER: 31,298
REFERENCE/DOCKET NUMBER: 37067/102
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 672-5300
TELEFAX: (202) 672-5399

INFORMATION FOR SEQ ID NO: 4:

SEQUENCE CHARACTERISTICS:
LENGTH: 98 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
SEQUENCE DESCRIPTION: SEQ ID NO: 4:

US-09-820-765-4

Query Match 100.0%; Score 53; DB 3; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.15;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TTDLXCYEQ 9
| | | | | | | | | |
Db 19 TTDLXCYEQ 27

RESULT 16

US-09-824-017-4
; Sequence 4, Application US/09824017
; Publication No. US20020197668A1
; GENERAL INFORMATION:

APPLICANT: BURGER, Alexander
; HALLEK, Michael

TITLE OF INVENTION: PAPILLOMA VIRUS CAPSOMERE VACCINE
; FORMULATIONS AND METHODS OF USE

NUMBER OF SEQUENCES: 28

CORRESPONDENCE ADDRESS:
ADDRESSEE: FOLEY & LARDNER
STREET: 3000 K Street, N.W.
CITY: Washington

STATE: D.C.
COUNTRY: U.S.A.
ZIP: 20007-5109

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/824,017

FILING DATE: 03-Apr-2001
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 09/026,896
FILING DATE: 1998-02-20
ATTORNEY/AGENT INFORMATION:
NAME: Sandercock, Colin G.
REGISTRATION NUMBER: 31,298
REFERENCE/DOCKET NUMBER: 37067/102
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 672-5300
TELEFAX: (202) 672-5399
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 98 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
SEQUENCE DESCRIPTION: SEQ ID NO: 4:
US-09-824-017-4

Query Match 100.0%; Score 53; DB 3; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.15;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TTDLVCEQ 9
Db 19 TTDLVCEQ 27

RESULT 17
US-09-986-118A-4
Sequence 4, Application US/09986118A
Publication No. US20030021806A1
GENERAL INFORMATION:
APPLICANT: BURGER, Alexander
HALBEK, Michael
TITLE OF INVENTION: PAPILLOMA VIRUS CAPSOMERE VACCINE
NUMBER OF SEQUENCES: 28
CORRESPONDENCE ADDRESS:
ADDRESSEE: FOLEY & LARDNER
STREET: 3000 K Street, N.W.
CITY: Washington
STATE: D.C.
COUNTRY: U.S.A.
ZIP: 20007-5109
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/986,118A
FILING DATE: 07-No. US20030021806A1-2001
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 09/026,896
FILING DATE: <Unknown>
ATTORNEY/AGENT INFORMATION:
NAME: Sandercock, Colin G.
REGISTRATION NUMBER: 31,298
REFERENCE/DOCKET NUMBER: 37067/102
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 672-5300
TELEFAX: (202) 672-5399
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 98 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
SEQUENCE DESCRIPTION: SEQ ID NO: 4:

US-09-986-118A-4

Query Match 100.0%; Score 53; DB 3; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.15;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TTDLVCEQ 9
Db 19 TTDLVCEQ 27

RESULT 18
US-10-267-311-8
Sequence 8, Application US/10267311
Publication No. US20030050469A1
GENERAL INFORMATION:
APPLICANT: Siegel, Marvin
APPLICANT: Chu, N. Randall
APPLICANT: Mizzen, Lee A.
TITLE OF INVENTION: INDUCTION OF A TH1-LIKE RESPONSE IN VITRO
FILE REFERENCE: 12071/002001
CURRENT APPLICATION NUMBER: US/10/267,311
CURRENT FILING DATE: 2002-10-09
PRIOR APPLICATION NUMBER: US/09/613,303
PRIOR FILING DATE: 2000-07-10
PRIOR APPLICATION NUMBER: US 60/143,757
PRIOR FILING DATE: 1999-07-08
NUMBER OF SEQ ID NOS: 55
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 8
LENGTH: 98
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: fusion sequence
US-10-267-311-8

Query Match 100.0%; Score 53; DB 4; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.15;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TTDLVCEQ 9
Db 19 TTDLVCEQ 27

RESULT 19
US-10-177-390-8
Sequence 8, Application US/10177390
Publication No. US20030143743A1
GENERAL INFORMATION:
APPLICANT: Schuler, Gerold
APPLICANT: N.V. Antwerp Innovatiscentrum
TITLE OF INVENTION: Improved transfection of Eucaryotic Cells with linear
FILE REFERENCE: 021505wo/JH/ml
CURRENT APPLICATION NUMBER: US/10/177,390
CURRENT FILING DATE: 2002-06-20
NUMBER OF SEQ ID NOS: 34
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 8
LENGTH: 98
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: fragment of
OTHER INFORMATION: human papilloma virus type 16 E7 gene
US-10-177-390-8

Query Match 100.0%; Score 53; DB 4; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.15;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TTDLYCYEQ 9
| | | | |
Db 19 TTDLYCYEQ 27

RESULT 20
US-10-201-764-19
; Sequence 19, Application US/10201764
; Publication No. US20030166140A1
; GENERAL INFORMATION:
; APPLICANT: CHEN, SI-YI AND ZHAOYANG, YOU
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR ANTIGENS WHICH ELICIT AN
; FILE REFERENCE: TBA
; CURRENT APPLICATION NUMBER: US/10/201,764
; CURRENT FILING DATE: 2002-07-22
; PRIOR APPLICATION NUMBER: US/09/566,420
; PRIOR FILING DATE: 2000-05-05
; PRIOR APPLICATION NUMBER: 60/132,752
; PRIOR FILING DATE: 1999-05-06
; PRIOR APPLICATION NUMBER: 60/132,750
; PRIOR FILING DATE: 1999-05-06
; NUMBER OF SEQ ID NOS: 19
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 19
; LENGTH: 98
; TYPE: PRT
; ORGANISM: Human papillomavirus type E7
US-10-201-764-19

Query Match 100.0%; Score 53; DB 4; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.15;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TTDLYCYEQ 9
| | | | |
Db 19 TTDLYCYEQ 27

RESULT 21
US-10-392-113-29
; Sequence 29, Application US/10392113
; Publication No. US20030224993A1
; GENERAL INFORMATION:
; APPLICANT: Land, Laurent
; APPLICANT: Deleu, Laurent
; TITLE OF INVENTION: COMPOSITIONS THAT INHIBIT PROLIFERATION
; FILE REFERENCE: 21108.000503
; CURRENT APPLICATION NUMBER: US/10/392,113
; CURRENT FILING DATE: 2003-03-17
; PRIOR APPLICATION NUMBER: 60/365,078
; PRIOR FILING DATE: 2002-03-15
; PRIOR APPLICATION NUMBER: PCT/US01/32127
; PRIOR FILING DATE: 2001-10-15
; PRIOR APPLICATION NUMBER: 60/239,705
; PRIOR FILING DATE: 2000-10-12
; NUMBER OF SEQ ID NOS: 45
; SOFTWARE: PaateSEQ for Windows Version 4.0
; SEQ ID NO 29
; LENGTH: 98
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence:/Note =
US-10-392-113-29

Query Match 100.0%; Score 53; DB 4; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.15;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TTDLYCYEQ 9

Db 19 TTDLYCYEQ 27
| | | | |

RESULT 22
US-10-654-129-4
; Sequence 4, Application US/10654129
; Publication No. US20040081661A1
; GENERAL INFORMATION:
; APPLICANT: BURGER, Alexander
; APPLICANT: HALBERK, Michael
; TITLE OF INVENTION: PAPILLOMA VIRUS CARSONERE VACCINE
; FORMULATIONS AND METHODS OF USE
; NUMBER OF SEQUENCES: 28
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: FOLEY & LARDNER
; STREET: 3000 K Street, N.W.
; CITY: Washington
; STATE: D.C.
; COUNTRY: U.S.A.
; ZIP: 20007-5109
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/10/654,129
; FILING DATE: 04-Sep-2003
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/09/824,017
; FILING DATE: 03-Apr-2001
; APPLICATION NUMBER: 09/026,896
; FILING DATE: 1998-02-20
; ATTORNEY/AGENT INFORMATION:
; NAME: Sandercock, Colin G.
; REGISTRATION NUMBER: 31,298
; REFERENCE/DOCKET NUMBER: 37067/102
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202) 672-5300
; TELEFAX: (202) 672-5399
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 98 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; SEQUENCE DESCRIPTION: SEQ ID NO: 4:
US-10-654-129-4

Query Match 100.0%; Score 53; DB 4; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.15;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TTDLYCYEQ 9
| | | | |
Db 19 TTDLYCYEQ 27

RESULT 23
US-10-681-410-19
; Sequence 19, Application US/10681410
; Publication No. US20040096426A1
; GENERAL INFORMATION:
; APPLICANT: CHEN, SI-YI AND ZHAOYANG, YOU
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR ANTIGENS WHICH ELICIT AN
; FILE REFERENCE: TBA
; CURRENT APPLICATION NUMBER: US/10/681,410
; CURRENT FILING DATE: 2003-10-08
; PRIOR APPLICATION NUMBER: US/10/201,764
; PRIOR FILING DATE: 2002-07-22

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; PRIOR APPLICATION NUMBER: US/09/566,420
; PRIOR FILING DATE: 2000-05-05
; PRIOR APPLICATION NUMBER: 60/132,752
; PRIOR FILING DATE: 1999-05-06
; PRIOR APPLICATION NUMBER: 60/132,750
; PRIOR FILING DATE: 1999-05-06
; NUMBER OF SEQ ID NOS: 19
; SOFTWARE: Patentn Ver. 2.0
; SEQ ID NO 19
; LENGTH: 98
; TYPE: PRT
; ORGANISM: Human papillomavirus type E7
US-10-681-410-19

Query Match          100.0%; Score 53; DB 4; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.15;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TTDLXCYEQ 9
Db 19 TTDLXCYEQ 27

RESULT 24
US-10-772-988-3
; Sequence 3, Application US/10772988
; Publication No. US20040139485A1
; GENERAL INFORMATION:
; APPLICANT: Thorgelirsson, Snorri S.
; APPLICANT: Woltach, Joseph T.
; APPLICANT: Zhang, Minghuang
; TITLE OF INVENTION: CDNA ENCODING A GENE BOG (B5T OVER-EXPRESSED GENE) AND ITS PROTEI
; TITLE OF INVENTION: PRODUCT
; FILE REFERENCE: 11613.29USM1
; CURRENT APPLICATION NUMBER: US/10/772,988
; CURRENT FILING DATE: 2004-02-05
; PRIOR APPLICATION NUMBER: US/09/637,746
; PRIOR FILING DATE: 2000-08-11
; PRIOR APPLICATION NUMBER: PCT/US99/04142
; PRIOR FILING DATE: 1999-02-25
; PRIOR APPLICATION NUMBER: US 60/079,567
; PRIOR FILING DATE: 1998-03-27
; PRIOR APPLICATION NUMBER: US 60/075,922
; PRIOR FILING DATE: 1998-02-25
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: Patentn version 3.1
; SEQ ID NO 3
; LENGTH: 98
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-772-988-3

Query Match          100.0%; Score 53; DB 4; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.15;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TTDLXCYEQ 9
Db 19 TTDLXCYEQ 27

RESULT 25
US-10-479-541-5
; Sequence 5, Application US/10479541
; Publication No. US20040151723A1
; GENERAL INFORMATION:
; APPLICANT: Kirin Beer Kabushiki Kaisha
; TITLE OF INVENTION: Novel E7 antigen epitope from human papillomavirus and
; FILE REFERENCE: 137240PX
; CURRENT APPLICATION NUMBER: US/10/479,541
; CURRENT FILING DATE: 2003-12-04
; PRIOR APPLICATION NUMBER: 173803/2001
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; PRIOR FILING DATE: 2001-06-08
; NUMBER OF SEQ ID NOS: 5
; SOFTWARE: Patentn Ver. 2.1
; SEQ ID NO 5
; LENGTH: 98
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-10-479-541-5

Query Match          100.0%; Score 53; DB 4; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.15;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TTDLXCYEQ 9
Db 19 TTDLXCYEQ 27

RESULT 26
US-10-042-526A-4
; Sequence 4, Application US/10042526A
; Publication No. US20050031636A1
; GENERAL INFORMATION:
; APPLICANT: GISSMANN, et al.
; TITLE OF INVENTION: PAPILLOMA VIRUS CAPSOMERE VACCINE FORMULATIONS AND METHODS OF USE
; FILE REFERENCE: 27013/38150
; CURRENT APPLICATION NUMBER: US/10/042,526A
; CURRENT FILING DATE: 2002-04-29
; PRIOR APPLICATION NUMBER: US 09/632,286
; PRIOR FILING DATE: 2000-08-03
; PRIOR APPLICATION NUMBER: US 08/944,368
; PRIOR FILING DATE: 1997-10-06
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: Patentn version 3.3
; SEQ ID NO 4
; LENGTH: 98
; TYPE: PRT
; ORGANISM: Human Papilloma Virus
US-10-042-526A-4

Query Match          100.0%; Score 53; DB 5; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.15;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TTDLXCYEQ 9
Db 19 TTDLXCYEQ 27

RESULT 27
US-10-657-399-1
; Sequence 1, Application US/10657399
; Publication No. US20050032038A1
; GENERAL INFORMATION:
; APPLICANT: Fisher, Christopher
; APPLICANT: He, Manxia
; TITLE OF INVENTION: Methods to Identify Anti-Viral Agents
; FILE REFERENCE: 28341/6216
; CURRENT APPLICATION NUMBER: US/10/657,399
; CURRENT FILING DATE: 2003-09-08
; PRIOR APPLICATION NUMBER: US/09/728,466
; PRIOR FILING DATE: 2000-12-01
; PRIOR APPLICATION NUMBER: 09/382,616
; PRIOR FILING DATE: 1999-08-25
; NUMBER OF SEQ ID NOS: 43
; SOFTWARE: Patentn Ver. 2.0
; SEQ ID NO 1
; LENGTH: 98
; TYPE: PRT
; ORGANISM: Papillomavirus sylvilagi
US-10-657-399-1

Query Match          100.0%; Score 53; DB 5; Length 98;
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Best Local Similarity 100.0%; Pred. No. 0.15; Indels 0; Gaps 0;
Matches 9; Conservative 0; Mismatches 0;

QY 1 TTDLYCYEQ 9
DB 19 TTDLYCYEQ 27

RESULT 28

US-10-858-384-12
; Sequence 12, Application US/10858384
; Publication No. US20050033025A1
; GENERAL INFORMATION:
; APPLICANT: CHOPPIN, JEANNINE
; APPLICANT: BOURGAULT VILLADA, ISABELLE
; APPLICANT: GUILLET, JEAN-GERARD
; APPLICANT: CONNAN, FRANCINE
; APPLICANT: FERRIES, ESTELLE
; TITLE OF INVENTION: POLYPEPTIDIC PROTEIN FRAGMENTS OF THE E6 PROTEIN
; TITLE OF INVENTION: OR E7 OF HPV, THEIR PRODUCTION AND THEIR USE
; FILE REFERENCE: 0508-1037-1
; CURRENT APPLICATION NUMBER: US/10/858,384
; PRIOR FILING DATE: 2004-06-02
; PRIOR APPLICATION NUMBER: FR 9907012
; PRIOR FILING DATE: 1999-06-03
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: PatentIn Ver. 3.2
; SEQ ID NO 12
; LENGTH: 98
; TYPE: PRT
; ORGANISM: Human Papillomavirus
US-10-858-384-12

Query Match 100.0%; Score 53; DB 5; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.15; Indels 0; Gaps 0;
Matches 9; Conservative 0; Mismatches 0;

QY 1 TTDLYCYEQ 9
DB 19 TTDLYCYEQ 27

RESULT 29

US-10-484-063-26
; Sequence 26, Application US/10484063
; Publication No. US20050048467A1
; GENERAL INFORMATION:
; APPLICANT: SASTRY, K. JAGANNADHA
; APPLICANT: TORTOLERO-LUNA, GUILLERMO
; APPLICANT: FOLLEN, MICHELE
; TITLE OF INVENTION: METHODS AND COMPOSITIONS RELATING TO HPV-ASSOCIATED
; TITLE OF INVENTION: PRE-CANCEROUS AND CANCEROUS GROWTHS, INCLUDING CIN
; FILE REFERENCE: UTSC:560US
; CURRENT APPLICATION NUMBER: US/10/484,063
; PRIOR FILING DATE: 2004-01-16
; PRIOR APPLICATION NUMBER: PCT/US02/23198
; PRIOR FILING DATE: 2002-07-19
; PRIOR APPLICATION NUMBER: 60/306,809
; PRIOR FILING DATE: 2001-07-20
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 26
; LENGTH: 98
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-10-484-063-26

Query Match 100.0%; Score 53; DB 5; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.15; Indels 0; Gaps 0;
Matches 9; Conservative 0; Mismatches 0;

QY 1 TTDLYCYEQ 9

DB 19 TTDLYCYEQ 27

RESULT 30

US-10-343-448-5
; Sequence 5, Application US/10343448
; Publication No. US20050054820A1
; GENERAL INFORMATION:
; APPLICANT: WU, Tzyy-Chouu
; APPLICANT: HUNG, Chien-Pu
; TITLE OF INVENTION: MOLECULAR VACCINE LINKING AN ENDOPLASMIC RETICULUM CHAPERONE
; TITLE OF INVENTION: POLYPEPTIDE TO AN ANTIGEN
; FILE REFERENCE: 2240-186463
; CURRENT APPLICATION NUMBER: US/10/343,448
; PRIOR FILING DATE: 2003-01-31
; PRIOR APPLICATION NUMBER: PCT/US01/24134
; PRIOR FILING DATE: 2001-08-02
; PRIOR APPLICATION NUMBER: US 60/222,902
; PRIOR FILING DATE: 2000-08-03
; NUMBER OF SEQ ID NOS: 7
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 5
; LENGTH: 98
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-343-448-5

Query Match 100.0%; Score 53; DB 5; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.15; Indels 0; Gaps 0;
Matches 9; Conservative 0; Mismatches 0;

QY 1 TTDLYCYEQ 9
DB 19 TTDLYCYEQ 27

RESULT 31

US-10-679-956-8
; Sequence 8, Application US/10679956
; Publication No. US20050089841A1
; GENERAL INFORMATION:
; APPLICANT: Siegel, Marvin
; APPLICANT: Chu, N. Randall
; APPLICANT: Mizzzen, Lee A.
; TITLE OF INVENTION: INDUCTION OF A TH1-LIKE RESPONSE IN VITRO
; FILE REFERENCE: 12071/002001
; CURRENT APPLICATION NUMBER: US/10/679,956
; PRIOR FILING DATE: 2003-10-06
; PRIOR APPLICATION NUMBER: US/09/613,303
; PRIOR FILING DATE: 2000-07-10
; PRIOR APPLICATION NUMBER: US 60/143,757
; PRIOR FILING DATE: 1999-07-08
; NUMBER OF SEQ ID NOS: 55
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 8
; LENGTH: 98
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: fusion sequence
US-10-679-956-8

Query Match 100.0%; Score 53; DB 5; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.15; Indels 0; Gaps 0;
Matches 9; Conservative 0; Mismatches 0;

QY 1 TTDLYCYEQ 9
DB 19 TTDLYCYEQ 27

RESULT 32

US-10-367-057-17
; Sequence 17, Application US/10367057
; Publication No. US20050100554A1
; GENERAL INFORMATION:
; APPLICANT: Cuthill, Scott;
; APPLICANT: Jackson, Amanda;
; APPLICANT: Lewin, David A.;
; APPLICANT: Ooi, Chean Eng
; TITLE OF INVENTION: Complexes and Methods of Using Same
; FILE REFERENCE: 21402-559
; CURRENT APPLICATION NUMBER: US/10/367,057
; CURRENT FILING DATE: 2003-02-14
; PRIOR APPLICATION NUMBER: 60/256,911
; PRIOR FILING DATE: 2002-02-14
; NUMBER OF SEQ ID NOS: 198
; SOFTWARE: CuroSeqList version 0.1
; SEQ ID NO 17
; LENGTH: 98
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-367-057-17

Query Match 100.0%; Score 53; DB 5; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.15;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TTDLVCEYEQ 9
|||
Db 19 TTDLVCEYEQ 27

RESULT 33
US-11-077-939-5
; Sequence 5, Application US/11077939
; Publication No. US20050196865A1
; GENERAL INFORMATION:
; APPLICANT: Frazer, Ian Hector
; TITLE OF INVENTION: Gene Expression System Based on Codon Translation Efficiency
; FILE REFERENCE: 10338-11U1
; CURRENT APPLICATION NUMBER: US/11/077,939
; CURRENT FILING DATE: 2005-03-11
; PRIOR APPLICATION NUMBER: PCT/AU2003/001200
; PRIOR FILING DATE: 2003-09-12
; PRIOR APPLICATION NUMBER: US 60/410410
; PRIOR FILING DATE: 2002-09-13
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 5
; LENGTH: 98
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-11-077-939-5

Query Match 100.0%; Score 53; DB 6; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.15;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TTDLVCEYEQ 9
|||
Db 19 TTDLVCEYEQ 27

RESULT 34
US-10-115-440-7
; Sequence 7, Application US/10115440
; Publication No. US20040086845A1
; GENERAL INFORMATION:
; APPLICANT: Wu, Tzyy-Choon
; APPLICANT: Hung, Chien-Fu
; TITLE OF INVENTION: SUPERIOR MOLECULAR VACCINE LINKING THE TRANSLOCATION DOMAIN OF A
; FILE REFERENCE: 02240-179934
; CURRENT APPLICATION NUMBER: US/10/115,440

; CURRENT FILING DATE: 2002-09-30
; PRIOR APPLICATION NUMBER: US 60/281,003
; PRIOR FILING DATE: 2001-04-04
; PRIOR APPLICATION NUMBER: PCT/US00/41422
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: US 09/501,097
; PRIOR FILING DATE: 2000-02-09
; PRIOR APPLICATION NUMBER: US 09/421,608
; PRIOR FILING DATE: 1999-10-20
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 7
; LENGTH: 99
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-115-440-7

Query Match 100.0%; Score 53; DB 4; Length 99;
Best Local Similarity 100.0%; Pred. No. 0.15;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TTDLVCEYEQ 9
|||
Db 19 TTDLVCEYEQ 27

RESULT 35
US-10-472-724-4
; Sequence 4, Application US/10472724
; Publication No. US20040171806A1
; GENERAL INFORMATION:
; APPLICANT: Cid-Arregui, Angel
; APPLICANT: Zur Hausen, Harald
; TITLE OF INVENTION: Modified HPV B6 and E7 genes and proteins useful for vaccination
; FILE REFERENCE: 4121-154
; CURRENT APPLICATION NUMBER: US/10/472,724
; CURRENT FILING DATE: 2003-09-17
; PRIOR APPLICATION NUMBER: PCT/EP02/03271
; PRIOR FILING DATE: 2002-03-22
; PRIOR APPLICATION NUMBER: EP 01107271.7
; PRIOR FILING DATE: 2001-03-23
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 4
; LENGTH: 111
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Construct
US-10-472-724-4

Query Match 100.0%; Score 53; DB 4; Length 111;
Best Local Similarity 100.0%; Pred. No. 0.17;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TTDLVCEYEQ 9
|||
Db 24 TTDLVCEYEQ 32

RESULT 36
US-10-267-311-12
; Sequence 12, Application US/10267311
; Publication No. US20030050469A1
; GENERAL INFORMATION:
; APPLICANT: Siegel, Marvin
; APPLICANT: Chu, N. Randall
; APPLICANT: Mizzen, Lee A.
; TITLE OF INVENTION: INDUCTION OF A TH1-LIKE RESPONSE IN VITRO
; FILE REFERENCE: 12071/002001
; CURRENT APPLICATION NUMBER: US/10/267,311
; CURRENT FILING DATE: 2002-10-09
; PRIOR APPLICATION NUMBER: US/09/613,303


```
; PRIOR FILING DATE: 2000-07-10
; PRIOR APPLICATION NUMBER: US 60/143,757
; PRIOR FILING DATE: 1999-07-08
; NUMBER OF SEQ ID NOS: 55
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 12
; LENGTH: 121
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: fusion sequence
US-10-267-311-12
```

```
Query Match          100.0%; Score 53; DB 4; Length 121;
Best Local Similarity 100.0%; Pred. No. 0.18;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy      1 TTDLVCEYEQ 9
         |||||
Db      42 TTDLVCEYEQ 50
```

```
RESULT 37
US-10-679-956-12
; Sequence 12, Application US/10679956
; Publication No. US20050089841A1
; GENERAL INFORMATION:
; APPLICANT: Siegel, Marvin
; APPLICANT: Chu, N. Randall
; APPLICANT: Mizzen, Lee A.
; TITLE OF INVENTION: INDUCTION OF A TH1-LIKE RESPONSE IN VITRO
; FILE REFERENCE: 12071/002001
; CURRENT APPLICATION NUMBER: US/10/679,956
; CURRENT FILING DATE: 2003-10-06
; PRIOR APPLICATION NUMBER: US/09/613,303
; PRIOR FILING DATE: 2000-07-10
; PRIOR APPLICATION NUMBER: US 60/143,757
; PRIOR FILING DATE: 1999-07-08
; NUMBER OF SEQ ID NOS: 55
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 12
; LENGTH: 121
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: fusion sequence
US-10-679-956-12
```

```
Query Match          100.0%; Score 53; DB 5; Length 121;
Best Local Similarity 100.0%; Pred. No. 0.18;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy      1 TTDLVCEYEQ 9
         |||||
Db      42 TTDLVCEYEQ 50
```

```
RESULT 38
US-10-267-311-35
; Sequence 35, Application US/10267311
; Publication No. US20030050469A1
; GENERAL INFORMATION:
; APPLICANT: Siegel, Marvin
; APPLICANT: Chu, N. Randall
; APPLICANT: Mizzen, Lee A.
; TITLE OF INVENTION: INDUCTION OF A TH1-LIKE RESPONSE IN VITRO
; FILE REFERENCE: 12071/002001
; CURRENT APPLICATION NUMBER: US/10/267,311
; CURRENT FILING DATE: 2002-10-09
; PRIOR APPLICATION NUMBER: US/09/613,303
; PRIOR FILING DATE: 2000-07-10
; PRIOR APPLICATION NUMBER: US 60/143,757
; PRIOR FILING DATE: 1999-07-08
```

```
; NUMBER OF SEQ ID NOS: 55
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 35
; LENGTH: 198
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: fusion sequence
US-10-267-311-35
```

```
Query Match          100.0%; Score 53; DB 4; Length 198;
Best Local Similarity 100.0%; Pred. No. 0.29;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy      1 TTDLVCEYEQ 9
         |||||
Db      119 TTDLVCEYEQ 127
```

```
RESULT 39
US-10-679-956-35
; Sequence 35, Application US/10679956
; Publication No. US20050089841A1
; GENERAL INFORMATION:
; APPLICANT: Siegel, Marvin
; APPLICANT: Chu, N. Randall
; APPLICANT: Mizzen, Lee A.
; TITLE OF INVENTION: INDUCTION OF A TH1-LIKE RESPONSE IN VITRO
; FILE REFERENCE: 12071/002001
; CURRENT APPLICATION NUMBER: US/10/679,956
; CURRENT FILING DATE: 2003-10-06
; PRIOR APPLICATION NUMBER: US/09/613,303
; PRIOR FILING DATE: 2000-07-10
; PRIOR APPLICATION NUMBER: US 60/143,757
; PRIOR FILING DATE: 1999-07-08
; NUMBER OF SEQ ID NOS: 55
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 35
; LENGTH: 198
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: fusion sequence
US-10-679-956-35
```

```
Query Match          100.0%; Score 53; DB 5; Length 198;
Best Local Similarity 100.0%; Pred. No. 0.29;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy      1 TTDLVCEYEQ 9
         |||||
Db      119 TTDLVCEYEQ 127
```

```
RESULT 40
US-10-000-903-1
; Sequence 1, Application US/10000903
; Publication No. US2002018221A1
; GENERAL INFORMATION:
; APPLICANT: Bruck, Claudine
; APPLICANT: Cabeson Silva, Teresa
; APPLICANT: Delisse, Anne-Marie Eva Fernande
; APPLICANT: Gerard, Catherine Marie Ghislaine
; APPLICANT: Lombardo-Bencheikh, Angela
; TITLE OF INVENTION: Vaccine
; FILE REFERENCE: B45107
; CURRENT APPLICATION NUMBER: US/10/000,903
; CURRENT FILING DATE: 2001-10-01
; PRIOR APPLICATION NUMBER: PCT/EP98/05285
; PRIOR FILING DATE: 1998-08-17
; PRIOR APPLICATION NUMBER: GB 9717953.5
; PRIOR FILING DATE: 1997-08-22
; NUMBER OF SEQ ID NOS: 23
```

```
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 1
; LENGTH: 220
; TYPE: PRT
; ORGANISM: Homo sapien
US-10-000-903-1
```

```
Query Match          100.0%; Score 53; DB 4; Length 220;
Best Local Similarity 100.0%; Pred. No. 0.32;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
OY      1 TTDLYCYEQ 9
        |||||
Db       132 TTDLYCYEQ 140
```

RESULT 41

```
US-10-899-771-1
; Sequence 1, Application US/10899771
; Publication No. US20050031638A1
; GENERAL INFORMATION:
; APPLICANT: Dalemans, Wilfried L.J.
; APPLICANT: Gerard, Catherine Marie Ghislaine
; TITLE OF INVENTION: Compositions Comprising Human Papilloma Virus Proteins
; TITLE OF INVENTION: and Fusion Proteins Adjuvanted with a Cpg Oligonucleotide
; FILE REFERENCE: B45124
; CURRENT APPLICATION NUMBER: US/10/899,771
; CURRENT FILING DATE: 2004-07-27
; PRIOR APPLICATION NUMBER: US/09/581,976
; PRIOR FILING DATE: 2000-06-20
; PRIOR APPLICATION NUMBER: PCT/EP98/08563
; PRIOR FILING DATE: 1998-12-18
; PRIOR APPLICATION NUMBER: GB 9727262.9
; PRIOR FILING DATE: 1997-12-24
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 1
; LENGTH: 220
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Chimeric protein (protein D from Haemophilus
; OTHER INFORMATION: influenzae B and E7 from Human papilloma virus type
; OTHER INFORMATION: 16)
US-10-899-771-1
```

```
Query Match          100.0%; Score 53; DB 5; Length 220;
Best Local Similarity 100.0%; Pred. No. 0.32;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
OY      1 TTDLYCYEQ 9
        |||||
Db       132 TTDLYCYEQ 140
```

RESULT 42

```
US-10-000-903-12
; Sequence 12, Application US/10000903
; Publication No. US20020182221A1
; GENERAL INFORMATION:
; APPLICANT: Bruck, Claudine
; APPLICANT: Cabezon Silva, Tereza
; APPLICANT: Delisse, Anne-Marie Eva Fernande
; APPLICANT: Gerard, Catherine Marie Ghislaine
; APPLICANT: Lombardo-Benchelth, Angela
; TITLE OF INVENTION: Vaccine
; FILE REFERENCE: B45107
; CURRENT APPLICATION NUMBER: US/10/000,903
; CURRENT FILING DATE: 2001-10-01
; PRIOR APPLICATION NUMBER: PCT/EP98/05285
; PRIOR FILING DATE: 1998-08-17
; PRIOR APPLICATION NUMBER: GB 9717953.5
; PRIOR FILING DATE: 1997-08-22
```

```
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 12
; LENGTH: 239
; TYPE: PRT
; ORGANISM: Homo sapien
US-10-000-903-12
```

```
Query Match          100.0%; Score 53; DB 4; Length 239;
Best Local Similarity 100.0%; Pred. No. 0.35;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
OY      1 TTDLYCYEQ 9
        |||||
Db       151 TTDLYCYEQ 159
```

RESULT 43

```
US-10-899-771-12
; Sequence 12, Application US/10899771
; Publication No. US20050031638A1
; GENERAL INFORMATION:
; APPLICANT: Dalemans, Wilfried L.J.
; APPLICANT: Gerard, Catherine Marie Ghislaine
; TITLE OF INVENTION: Compositions Comprising Human Papilloma Virus Proteins
; TITLE OF INVENTION: and Fusion Proteins Adjuvanted with a Cpg Oligonucleotide
; FILE REFERENCE: B45124
; CURRENT APPLICATION NUMBER: US/10/899,771
; CURRENT FILING DATE: 2004-07-27
; PRIOR APPLICATION NUMBER: US/09/581,976
; PRIOR FILING DATE: 2000-06-20
; PRIOR APPLICATION NUMBER: PCT/EP98/08563
; PRIOR FILING DATE: 1998-12-18
; PRIOR APPLICATION NUMBER: GB 9727262.9
; PRIOR FILING DATE: 1997-12-24
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 12
; LENGTH: 239
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Chimeric protein (Clyta from Streptococcus
; OTHER INFORMATION: pneumoniae and E7 from Human papilloma virus type
; OTHER INFORMATION: 16)
US-10-899-771-12
```

```
Query Match          100.0%; Score 53; DB 5; Length 239;
Best Local Similarity 100.0%; Pred. No. 0.35;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
OY      1 TTDLYCYEQ 9
        |||||
Db       151 TTDLYCYEQ 159
```

RESULT 44

```
US-09-367-309A-1
; Sequence 1, Application US/09367309A
; Publication No. US20020081329A1
; GENERAL INFORMATION:
; APPLICANT: MACFARLAN, RODERICK I.
; TITLE OF INVENTION: CHELATING IMMUNOSTIMULATING COMPLEXES
; FILE REFERENCE: 017227/0149
; CURRENT APPLICATION NUMBER: US/09/367,309A
; CURRENT FILING DATE: 1999-08-11
; PRIOR APPLICATION NUMBER: PCT/AU98/00080
; PRIOR FILING DATE: 1998-02-13
; PRIOR APPLICATION NUMBER: AU PO 5178
; PRIOR FILING DATE: 1997-02-19
; NUMBER OF SEQ ID NOS: 6
; SOFTWARE: PatentIn Ver. 2.1
```

SEQ ID NO 1
LENGTH: 266
TYPE: PRT
ORGANISM: Human papillomavirus type 16
US-09-367-309A-1

Query Match 100.0%; Score 53; DB 3; Length 266;
Best Local Similarity 100.0%; Pred. No. 0.38;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TTDLYCYEQ 9
Db 179 TTDLYCYEQ 187

RESULT 45
US-10-115-440-5
Sequence 5, Application US/10115440
Publication No. US20040086845A1
GENERAL INFORMATION:
APPLICANT: WU, Tzyy-Choon
APPLICANT: HUNG, Chien-Pi
TITLE OF INVENTION: SUPERIOR MOLECULAR VACCINE LINKING THE TRANSLOCATION DOMAIN OF A
FILE REFERENCE: 02240-179934
CURRENT APPLICATION NUMBER: US/10/115,440
CURRENT FILING DATE: 2002-09-30
PRIOR APPLICATION NUMBER: US 60/281,003
PRIOR FILING DATE: 2001-04-04
PRIOR APPLICATION NUMBER: PCT/US00/41422
PRIOR FILING DATE: 2000-10-20
PRIOR APPLICATION NUMBER: US 09/501,097
PRIOR FILING DATE: 2000-02-09
PRIOR APPLICATION NUMBER: US 09/421,608
PRIOR FILING DATE: 1999-10-20
NUMBER OF SEQ ID NOS: 15
SOFTWARE: PatentIn version 3.1
SEQ ID NO 5
LENGTH: 289
TYPE: PRT
ORGANISM: Human papillomavirus
US-10-115-440-5

Query Match 100.0%; Score 53; DB 4; Length 289;
Best Local Similarity 100.0%; Pred. No. 0.42;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TTDLYCYEQ 9
Db 192 TTDLYCYEQ 200

RESULT 46
US-10-267-311-33
Sequence 33, Application US/10267311
Publication No. US20030050469A1
GENERAL INFORMATION:
APPLICANT: Siegel, Marvin
APPLICANT: Chu, N. Randall
APPLICANT: Mizzen, Lee A.
TITLE OF INVENTION: INDUCTION OF A TH1-LIKE RESPONSE IN VITRO
FILE REFERENCE: 12071/002001
CURRENT APPLICATION NUMBER: US/10/267,311
CURRENT FILING DATE: 2002-10-09
PRIOR APPLICATION NUMBER: US/09/613,303
PRIOR FILING DATE: 2000-07-10
PRIOR APPLICATION NUMBER: US 60/143,757
PRIOR FILING DATE: 1999-07-08
NUMBER OF SEQ ID NOS: 55
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 33
LENGTH: 295
TYPE: PRT

ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: fusion sequence
US-10-267-311-33

Query Match 100.0%; Score 53; DB 4; Length 295;
Best Local Similarity 100.0%; Pred. No. 0.42;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TTDLYCYEQ 9
Db 216 TTDLYCYEQ 224

RESULT 47
US-10-679-956-33
Sequence 33, Application US/10679956
Publication No. US20050089841A1
GENERAL INFORMATION:
APPLICANT: Siegel, Marvin
APPLICANT: Chu, N. Randall
APPLICANT: Mizzen, Lee A.
TITLE OF INVENTION: INDUCTION OF A TH1-LIKE RESPONSE IN VITRO
FILE REFERENCE: 12071/002001
CURRENT APPLICATION NUMBER: US/10/679,956
CURRENT FILING DATE: 2003-10-06
PRIOR APPLICATION NUMBER: US/09/613,303
PRIOR FILING DATE: 2000-07-10
PRIOR APPLICATION NUMBER: US 60/143,757
PRIOR FILING DATE: 1999-07-08
NUMBER OF SEQ ID NOS: 55
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 33
LENGTH: 295
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: fusion sequence
US-10-679-956-33

Query Match 100.0%; Score 53; DB 5; Length 295;
Best Local Similarity 100.0%; Pred. No. 0.42;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TTDLYCYEQ 9
Db 216 TTDLYCYEQ 224

RESULT 48
US-10-267-311-25
Sequence 25, Application US/10267311
Publication No. US20030050469A1
GENERAL INFORMATION:
APPLICANT: Siegel, Marvin
APPLICANT: Chu, N. Randall
APPLICANT: Mizzen, Lee A.
TITLE OF INVENTION: INDUCTION OF A TH1-LIKE RESPONSE IN VITRO
FILE REFERENCE: 12071/002001
CURRENT APPLICATION NUMBER: US/10/267,311
CURRENT FILING DATE: 2002-10-09
PRIOR APPLICATION NUMBER: US/09/613,303
PRIOR FILING DATE: 2000-07-10
PRIOR APPLICATION NUMBER: US 60/143,757
PRIOR FILING DATE: 1999-07-08
NUMBER OF SEQ ID NOS: 55
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 25
LENGTH: 324
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: fusion sequence

US-10-267-311-25

Query Match 100.0%; Score 53; DB 4; Length 324;
Best Local Similarity 100.0%; Pred. No. 0.46;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 1 TTDLXCYEQ 9
Db 245 TTDLXCYEQ 253

RESULT 49

US-10-679-956-25
; Sequence 25, Application US/10679956
; Publication No. US20050089841A1
; GENERAL INFORMATION:
; APPLICANT: Siegel, Marvin
; APPLICANT: Chu, N. Randall
; APPLICANT: Mizzen, Lee A.
; TITLE OF INVENTION: INDUCTION OF A TH1-LIKE RESPONSE IN VITRO
; FILE REFERENCE: 12071/002001
; CURRENT APPLICATION NUMBER: US/10/679,956
; PRIOR FILING DATE: 2003-10-06
; PRIOR APPLICATION NUMBER: US/09/613,303
; PRIOR FILING DATE: 2000-07-10
; PRIOR APPLICATION NUMBER: US 60/143,757
; NUMBER OF SEQ ID NOS: 55
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 25
; LENGTH: 324
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: fusion sequence
US-10-679-956-25

Query Match 100.0%; Score 53; DB 5; Length 324;
Best Local Similarity 100.0%; Pred. No. 0.46;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 1 TTDLXCYEQ 9
Db 245 TTDLXCYEQ 253

RESULT 50

US-10-472-724-10
; Sequence 10, Application US/104727224
; Publication No. US20040171806A1
; GENERAL INFORMATION:
; APPLICANT: Cid-Arregui, Angel
; APPLICANT: Zur Hausen, Harald
; TITLE OF INVENTION: Modified HPV E6 and E7 genes and proteins useful for vaccination
; FILE REFERENCE: 4121-154
; CURRENT APPLICATION NUMBER: US/10/472,724
; PRIOR FILING DATE: 2003-09-17
; PRIOR APPLICATION NUMBER: PCT/EP02/03271
; PRIOR FILING DATE: 2002-03-22
; PRIOR APPLICATION NUMBER: EP 01107271.7
; PRIOR FILING DATE: 2001-03-23
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 10
; LENGTH: 334
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Construct
US-10-472-724-10

Query Match 100.0%; Score 53; DB 4; Length 334;
Best Local Similarity 100.0%; Pred. No. 0.46;

Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 1 TTDLXCYEQ 9
Db 247 TTDLXCYEQ 255

Search completed: May 5, 2006, 08:55:42
Job time : 63 secs

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OM protein - protein search, using sw model

Run on: May 5, 2006, 08:51:51 ; Search time 9 Seconds
(without alignments)
46.285 Million cell updates/sec

Title: US-08-170-344-38
Perfect score: 53
Sequence: 1 TTDLRYCYEQ 9

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 235405 seqs, 46284737 residues

Total number of hits satisfying chosen parameters: 235405

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 1000 summaries

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Published Applications_AA New: *
1: /SID5/pcodata/1/pubppa/US08_NEW_PUB.pep1.*
2: /SID5/pcodata/1/pubppa/US06_NEW_PUB.pep.*
3: /SID5/pcodata/1/pubppa/US07_NEW_PUB.pep.*
4: /SID5/pcodata/1/pubppa/US08_NEW_PUB.pep.*
5: /SID5/pcodata/1/pubppa/US09_NEW_PUB.pep.*
6: /SID5/pcodata/1/pubppa/US09_NEW_PUB.pep.*
7: /SID5/pcodata/1/pubppa/US09_NEW_PUB.pep.*
8: /SID5/pcodata/1/pubppa/US10_NEW_PUB.pep1.*
9: /SID5/pcodata/1/pubppa/US11_NEW_PUB.pep1.*
10: /SID5/pcodata/1/pubppa/US11_NEW_PUB.pep1.*
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12: /SID5/pcodata/1/pubppa/US60_NEW_PUB.pep.*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No	Score	Query Match	Length	ID	Description
1	53	100.0	98	US-10-511-814-8	Sequence 8, Appl1
2	53	100.0	98	US-10-511-814-11	Sequence 11, Appl1
3	53	100.0	98	US-10-530-253-14	Sequence 14, Appl1
4	53	100.0	98	US-11-179-478-4	Sequence 4, Appl1
5	53	100.0	248	US-10-530-253-1	Sequence 1, Appl1
6	53	100.0	248	US-10-530-253-7	Sequence 2, Appl1
7	53	100.0	256	US-11-192-923A-2	Sequence 7, Appl1
8	48	90.6	15	US-10-530-061-1749	Sequence 1749, Ap
9	48	90.6	97	US-10-530-253-29	Sequence 29, Appl1
10	48	90.6	99	US-10-530-253-30	Sequence 30, Appl1
11	48	90.6	99	US-10-530-253-34	Sequence 34, Appl1
12	44	83.0	98	US-10-530-253-36	Sequence 36, Appl1
13	43	81.1	15	US-10-530-061-1750	Sequence 1750, Ap
14	43	81.1	98	US-10-530-253-28	Sequence 28, Appl1
15	36	67.9	642	US-11-188-298-5295	Sequence 5295, Ap
16	36	67.9	642	US-11-188-298-17111	Sequence 17111, A
17	36	67.9	1591	US-10-495-083-4	Sequence 4, Appl1
18	36	67.9	1591	US-10-495-083-5	Sequence 5, Appl1
19	36	67.9	1622	US-10-495-083-6	Sequence 6, Appl1
20	36	67.9	1735	US-10-495-083-3	Sequence 3, Appl1
21	36	67.9	1985	US-10-495-083-7	Sequence 7, Appl1

22	67.9	2204	9	US-10-495-083-8	Sequence 8, Appl1
23	66.0	101	9	US-10-530-253-33	Sequence 33, Appl1
24	66.0	104	9	US-10-530-253-40	Sequence 40, Appl1
25	66.0	106	9	US-10-530-253-32	Sequence 32, Appl1
26	66.0	107	9	US-10-530-253-37	Sequence 37, Appl1
27	66.0	642	11	US-11-188-298-4062	Sequence 4062, Ap
28	64.2	248	9	US-10-530-253-3	Sequence 3, Appl1
29	64.2	248	9	US-10-530-253-5	Sequence 5, Appl1
30	64.2	248	9	US-10-530-253-9	Sequence 9, Appl1
31	64.2	248	9	US-10-530-253-11	Sequence 11, Appl1
32	64.2	1448	9	US-10-485-517-212	Sequence 21, App
33	62.3	261	11	US-11-188-298-16328	Sequence 16328, A
34	62.3	615	11	US-11-087-099-9420	Sequence 9420, Ap
35	62.3	615	11	US-11-188-298-19754	Sequence 19754, A
36	62.3	1608	11	US-11-183-261-41	Sequence 41, Appl1
37	62.3	1608	9	US-10-877-346-61	Sequence 61, Appl1
38	62.3	1642	11	US-11-183-261-40	Sequence 40, Appl1
39	62.3	1788	9	US-10-877-346-60	Sequence 60, Appl1
40	62.3	2409	11	US-11-183-261-38	Sequence 38, Appl1
41	62.3	2811	9	US-10-877-346-63	Sequence 27, Appl1
42	62.3	2811	9	US-10-877-346-27	Sequence 25, Appl1
43	62.3	2814	9	US-10-877-346-25	Sequence 44, Appl1
44	62.3	3396	8	US-10-505-928-449	Sequence 39, Appl1
45	62.3	3396	11	US-11-183-261-39	Sequence 1630, Ap
46	60.4	179	11	US-11-045-004-1630	Sequence 3676, Ap
47	60.4	329	11	US-11-087-099-3676	Sequence 11558, A
48	60.4	341	11	US-11-188-298-11558	Sequence 2031, Ap
49	60.4	860	11	US-11-045-004-2031	Sequence 9, Appl1
50	60.4	1752	9	US-10-495-083-9	Sequence 82, Appl1
51	58.5	14	9	US-10-939-890-82	Sequence 377, App
52	58.5	26	9	US-10-939-890-377	Sequence 90, Appl1
53	58.5	35	11	US-11-174-816-90	Sequence 91, Appl1
54	58.5	35	11	US-11-174-816-91	Sequence 92, Appl1
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58	58.5	35	11	US-11-174-816-108	Sequence 109, App
59	58.5	35	11	US-11-174-819-109	Sequence 110, App
60	58.5	35	11	US-11-174-819-110	Sequence 111, App
61	58.5	35	11	US-11-174-819-111	Sequence 115, App
62	58.5	35	11	US-11-174-819-125	Sequence 127, App
63	58.5	35	11	US-11-174-819-126	Sequence 127, App
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94	58.5	35	11	US-11-174-819-127	Sequence 127, App

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97	31	58.5	911	9	US-10-243-357-52	Sequence 52, Appl	170	29	54.7	289	11	US-11-096-568A-31800	Sequence 31800, A
98	31	58.5	911	9	US-10-245-083-52	Sequence 52, Appl	171	29	54.7	308	11	US-11-096-568A-4701	Sequence 4701, Ap
99	31	58.5	911	9	US-10-247-015-52	Sequence 52, Appl	172	29	54.7	311	11	US-11-229-371-5	Sequence 5, Appl1
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103	30	56.6	109	9	US-10-530-253-31	Sequence 31, Appl	176	29	54.7	332	8	US-10-505-928-205	Sequence 205, App
104	30	56.6	110	9	US-10-530-253-38	Sequence 38, Appl	177	29	54.7	340	11	US-11-087-099-7354	Sequence 7354, Ap
105	30	56.6	240	11	US-11-229-769-143	Sequence 143, App	178	29	54.7	350	11	US-11-087-099-7558	Sequence 7558, Ap
106	30	56.6	250	11	US-11-055-822-832	Sequence 832, App	179	29	54.7	350	11	US-11-087-099-7819	Sequence 7819, Ap
107	30	56.6	256	11	US-11-096-568A-22939	Sequence 22939, A	180	29	54.7	355	11	US-11-096-568A-31799	Sequence 31799, A
108	30	56.6	256	11	US-11-096-568A-23027	Sequence 23027, A	181	29	54.7	360	9	US-10-194-467-28	Sequence 28, Appl
109	30	56.6	256	11	US-11-096-568A-26760	Sequence 26760, A	182	29	54.7	360	9	US-10-195-883-28	Sequence 28, Appl
110	30	56.6	258	11	US-11-087-099-10200	Sequence 10200, A	183	29	54.7	360	9	US-10-195-888-18	Sequence 28, Appl
111	30	56.6	258	11	US-11-096-568A-3312	Sequence 3312, Ap	184	29	54.7	360	9	US-10-195-889-28	Sequence 28, Appl
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114	30	56.6	282	11	US-11-096-568A-26759	Sequence 26759, A	187	29	54.7	370	11	US-11-055-822-180	Sequence 180, App
115	30	56.6	298	11	US-11-223-974-3	Sequence 3, Appl1	188	29	54.7	370	11	US-11-055-822-190	Sequence 190, App
116	30	56.6	300	11	US-11-223-974-14	Sequence 14, Appl	189	29	54.7	370	11	US-11-239-674-74	Sequence 74, Appl
117	30	56.6	303	11	US-11-096-568A-22937	Sequence 22937, A	190	29	54.7	377	9	US-10-858-730-286	Sequence 286, App
118	30	56.6	303	11	US-11-096-568A-23025	Sequence 23025, A	191	29	54.7	377	11	US-11-055-822-178	Sequence 178, App
119	30	56.6	329	11	US-11-096-568A-26758	Sequence 26758, A	192	29	54.7	377	11	US-11-055-822-188	Sequence 188, App
120	30	56.6	329	11	US-11-096-568A-3311	Sequence 3311, Ap	193	29	54.7	377	11	US-11-239-674-72	Sequence 72, Appl
121	30	56.6	355	11	US-11-079-463-5945	Sequence 5945, Ap	194	29	54.7	379	9	US-10-858-730-312	Sequence 312, App
122	30	56.6	355	11	US-11-079-463-5945	Sequence 5945, Ap	195	29	54.7	393	11	US-11-079-463-8753	Sequence 8753, Ap
123	30	56.6	397	11	US-11-045-004-77	Sequence 77, Appl	196	29	54.7	395	11	US-11-072-512-3413	Sequence 3413, Ap
124	30	56.6	403	11	US-11-087-099-2819	Sequence 2819, Ap	197	29	54.7	419	11	US-11-096-568A-31798	Sequence 31798, A
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126	30	56.6	436	11	US-11-079-463-8797	Sequence 8797, Ap	199	29	54.7	455	9	US-11-087-099-8533	Sequence 8533, Ap
127	30	56.6	477	11	US-11-188-298-11308	Sequence 11308, A	200	29	54.7	489	11	US-11-087-099-8528	Sequence 8528, Ap
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129	30	56.6	506	11	US-11-188-298-13908	Sequence 13908, A	202	29	54.7	531	11	US-11-225-903-20	Sequence 20, Appl
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132	30	56.6	533	11	US-11-096-568A-34293	Sequence 34293, A	205	29	54.7	566	11	US-11-079-463-6518	Sequence 6518, Ap
133	30	56.6	533	11	US-11-188-298-9068	Sequence 9068, Ap	206	29	54.7	644	11	US-11-188-298-3273	Sequence 3273, Ap
134	30	56.6	538	11	US-11-096-568A-34292	Sequence 34292, A	207	29	54.7	718	11	US-11-096-568A-31008	Sequence 31008, A
135	30	56.6	605	11	US-11-046-653-3	Sequence 3, Appl1	208	29	54.7	771	11	US-11-096-568A-31007	Sequence 31007, A
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138	30	56.6	704	11	US-11-232-440-49	Sequence 49, Appl	211	29	54.7	856	11	US-11-054-481-116	Sequence 116, App
139	30	56.6	829	9	US-10-512-109-27	Sequence 27, Appl	212	29	54.7	926	11	US-11-087-099-6667	Sequence 6667, Ap
140	30	56.6	832	8	US-10-505-928-491	Sequence 491, App	213	29	54.7	980	9	US-10-330-773-507	Sequence 507, App
141	30	56.6	832	9	US-10-512-109-29	Sequence 29, Appl	214	29	54.7	985	11	US-10-330-773-507	Sequence 27942, A
142	30	56.6	881	11	US-11-191-374-12	Sequence 12, Appl	215	29	54.7	983	11	US-11-096-568A-27942	Sequence 27942, A
143	30	56.6	881	11	US-11-191-375-12	Sequence 12, Appl	216	29	54.7	995	9	US-10-330-773-505	Sequence 505, App
144	30	56.6	881	11	US-11-191-588-12	Sequence 12, Appl	217	29	54.7	1001	9	US-10-330-773-510	Sequence 510, App
145	30	56.6	3597	11	US-11-019-711-6	Sequence 6, Appl1	218	29	54.7	1009	9	US-10-912-971-16	Sequence 16, Appl
146	30	56.6	3600	11	US-11-019-711-2	Sequence 2, Appl1	219	29	54.7	1087	11	US-11-096-568A-27941	Sequence 27941, A
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148	30	56.6	3714	9	US-10-995-561-1015	Sequence 1015, Ap	221	29	54.7	1724	11	US-11-096-568A-33051	Sequence 33051, A
149	30	56.6	3717	9	US-10-821-234-1076	Sequence 1076, Ap	222	29	54.7	1730	11	US-11-096-568A-33050	Sequence 33050, A
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151	29	54.7	61	11	US-11-096-568A-4205	Sequence 4205, Ap	224	29	54.7	1766	11	US-11-087-099-10309	Sequence 10309, A
152	29	54.7	97	11	US-11-079-463-7540	Sequence 7540, Ap	225	29	54.7	1796	11	US-11-188-298-9458	Sequence 9458, Ap
153	29	54.7	108	11	US-11-064-174-66	Sequence 66, Appl	226	29	53.8	18	9	US-10-929-988-207	Sequence 207, App
154	29	54.7	120	11	US-11-169-041-221	Sequence 221, App	227	28	52.8	14	9	US-10-939-890-74	Sequence 74, Appl
155	29	54.7	135	9	US-10-821-234-1037	Sequence 1037, Ap	228	28	52.8	15	9	US-10-895-064-1540	Sequence 1540, Ap
156	29	54.7	139	11	US-11-264-728-6	Sequence 6, Appl1	229	28	52.8	21	11	US-11-129-741-1540	Sequence 1540, Ap
157	29	54.7	146	11	US-11-192-0708-2	Sequence 2, Appl1	230	28	52.8	21	9	US-10-939-880-364	Sequence 564, App
158	29	54.7	176	11	US-11-192-0708-1	Sequence 1, Appl1	231	28	52.8	22	11	US-11-152-974A-6	Sequence 6, Appl1
159	29	54.7	197	11	US-11-098-686-11017	Sequence 11017, A	232	28	52.8	22	11	US-11-153-943A-10	Sequence 10, Appl
160	29	54.7	222	11	US-11-096-568A-29217	Sequence 29217, A	233	28	52.8	25	11	US-11-152-974A-6	Sequence 6, Appl1
161	29	54.7	224	11	US-11-096-568A-4703	Sequence 4703, Ap	234	28	52.8	25	11	US-11-153-143A-10	Sequence 10, Appl
162	29	54.7	224	11	US-11-188-298-17407	Sequence 17407, A	235	28	52.8	35	11	US-11-174-819-89	Sequence 89, Appl
163	29	54.7	249	11	US-11-054-515-946	Sequence 946, App	236	28	52.8	35	11	US-11-174-819-108	Sequence 108, App
164	29	54.7	249	11	US-11-266-444-946	Sequence 946, App	237	28	52.8	45	9	US-10-821-234-1695	Sequence 1695, App
165	29	54.7	250	11	US-11-054-515-1022	Sequence 1022, App	238	28	52.8	45	11	US-11-123-896-129	Sequence 129, App
166	29	54.7	250	11	US-11-266-444-1022	Sequence 1022, Ap	239	28	52.8	45	11	US-11-123-896-132	Sequence 132, App
167	29	54.7	252	11	US-11-188-298-2888	Sequence 2888, Ap	240	28	52.8	54	11	US-11-087-099-8776	Sequence 8776, Ap

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243	28	52.8	76	11	US-11-123-896-128	Sequence 128, App	316	28	52.8	379	9	US-10-714-995-26	Sequence 26, Appl
244	28	52.8	76	11	US-11-123-896-131	Sequence 131, App	317	28	52.8	382	11	US-11-096-568A-1844	Sequence 1844, App
245	28	52.8	88	11	US-11-108-298-18544	Sequence 18544, A	318	28	52.8	392	11	US-11-098-568-10799	Sequence 10799, A
246	28	52.8	95	11	US-11-088-554-215	Sequence 215, App	319	28	52.8	396	11	US-11-096-568A-11143	Sequence 11143, A
247	28	52.8	95	11	US-11-136-250-215	Sequence 215, App	320	28	52.8	404	11	US-11-087-099-4865	Sequence 4865, App
248	28	52.8	96	11	US-11-084-554-217	Sequence 217, App	321	28	52.8	405	11	US-11-096-568A-11142	Sequence 11142, A
249	28	52.8	96	11	US-11-136-250-217	Sequence 217, App	322	28	52.8	415	11	US-11-096-568A-1843	Sequence 1843, App
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251	28	52.8	124	11	US-11-045-004-1567	Sequence 1567, App	324	28	52.8	429	11	US-11-079-653-8227	Sequence 8227, App
252	28	52.8	127	11	US-11-096-568A-14555	Sequence 14555, A	325	28	52.8	447	11	US-11-051-120-1286	Sequence 1286, App
253	28	52.8	140	11	US-11-096-568A-14525	Sequence 14525, A	326	28	52.8	452	11	US-11-096-568A-31741	Sequence 31741, A
254	28	52.8	153	9	US-10-915-002-232	Sequence 232, App	327	28	52.8	462	11	US-11-177-006-41	Sequence 41, Appl
255	28	52.8	155	9	US-10-793-626-344	Sequence 344, App	328	28	52.8	473	9	US-10-934-944-376	Sequence 376, App
256	28	52.8	158	11	US-11-096-568A-14554	Sequence 14554, A	329	28	52.8	473	9	US-10-934-944-381	Sequence 381, App
257	28	52.8	162	9	US-10-986-405-195	Sequence 195, App	330	28	52.8	473	9	US-10-934-944-382	Sequence 382, App
258	28	52.8	182	11	US-11-087-099-7515	Sequence 7515, App	331	28	52.8	473	11	US-11-116-881A-2272	Sequence 2272, App
259	28	52.8	182	11	US-11-096-568A-19706	Sequence 19706, A	332	28	52.8	473	11	US-11-116-881A-2278	Sequence 2278, App
260	28	52.8	201	11	US-11-096-568A-19705	Sequence 19705, A	333	28	52.8	473	11	US-11-116-881A-2300	Sequence 2300, App
261	28	52.8	206	11	US-11-096-568A-21947	Sequence 21947, A	334	28	52.8	477	9	US-10-511-989-189	Sequence 189, App
262	28	52.8	209	11	US-11-096-568A-4294	Sequence 4294, App	335	28	52.8	478	11	US-11-177-506-51	Sequence 51, Appl
263	28	52.8	210	11	US-11-096-568A-19704	Sequence 19704, A	336	28	52.8	478	11	US-11-050-857-1000	Sequence 602, App
264	28	52.8	211	11	US-11-096-568A-4292	Sequence 4292, App	337	28	52.8	478	11	US-11-051-720-1418	Sequence 1418, App
265	28	52.8	219	11	US-11-050-857-606	Sequence 606, App	338	28	52.8	478	11	US-11-051-720-1696	Sequence 1696, App
266	28	52.8	219	11	US-11-051-720-1288	Sequence 1288, App	339	28	52.8	478	11	US-11-087-099-10769	Sequence 10769, A
267	28	52.8	238	11	US-11-096-568A-130	Sequence 130, App	340	28	52.8	498	11	US-11-087-099-10769	Sequence 9952, App
268	28	52.8	239	11	US-11-096-568A-131	Sequence 131, App	341	28	52.8	499	11	US-11-188-298-9952	Sequence 178, App
269	28	52.8	241	11	US-11-170-653-35	Sequence 35, Appl	342	28	52.8	504	9	US-10-934-944-178	Sequence 187, App
270	28	52.8	241	11	US-10-793-626-2910	Sequence 2910, App	343	28	52.8	504	11	US-11-116-881A-187	Sequence 187, App
271	28	52.8	247	11	US-11-096-568A-2928	Sequence 2928, App	344	28	52.8	510	11	US-11-087-099-8796	Sequence 8796, App
272	28	52.8	247	11	US-11-096-568A-2930	Sequence 2930, App	345	28	52.8	510	11	US-11-087-099-8796	Sequence 1629, App
273	28	52.8	250	11	US-11-079-463-6692	Sequence 6692, App	346	28	52.8	558	11	US-11-045-004-1629	Sequence 822, App
274	28	52.8	251	11	US-11-054-515-945	Sequence 945, App	347	28	52.8	558	9	US-10-330-773-822	Sequence 8765, App
275	28	52.8	251	11	US-11-266-444-945	Sequence 945, App	348	28	52.8	568	11	US-11-188-298-8765	Sequence 8765, App
276	28	52.8	255	11	US-11-051-724-88	Sequence 88, Appl	349	28	52.8	584	11	US-11-096-568A-3165	Sequence 3165, A
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278	28	52.8	268	11	US-11-096-568A-2927	Sequence 2927, App	351	28	52.8	610	11	US-11-096-568A-3164	Sequence 3164, A
279	28	52.8	268	11	US-11-050-857-603	Sequence 603, App	352	28	52.8	617	11	US-11-188-288-8258	Sequence 8258, App
280	28	52.8	283	11	US-11-051-720-1285	Sequence 1285, App	353	28	52.8	629	11	US-11-079-463-7386	Sequence 5747, App
281	28	52.8	283	11	US-11-096-568A-11537	Sequence 11537, A	354	28	52.8	640	11	US-11-096-568A-3163	Sequence 3163, A
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283	28	52.8	292	11	US-11-188-298-15498	Sequence 15498, A	356	28	52.8	672	9	US-10-499-290-2	Sequence 2, Appl1
284	28	52.8	304	11	US-11-188-298-2712	Sequence 2712, App	357	28	52.8	708	11	US-11-096-568A-27412	Sequence 27412, A
285	28	52.8	305	11	US-11-188-298-6855	Sequence 6855, App	358	28	52.8	745	11	US-11-109-575A-6	Sequence 28380, App
286	28	52.8	305	11	US-11-087-099-534	Sequence 534, App	359	28	52.8	785	11	US-11-109-575A-6	Sequence 28380, App
287	28	52.8	305	11	US-11-188-298-13560	Sequence 13560, A	360	28	52.8	830	9	US-10-330-773-404	Sequence 404, App
288	28	52.8	305	11	US-11-188-298-18912	Sequence 18912, A	361	28	52.8	830	9	US-10-330-773-406	Sequence 406, App
289	28	52.8	307	11	US-11-188-298-22098	Sequence 22098, A	362	28	52.8	834	9	US-10-501-035-280	Sequence 280, App
290	28	52.8	311	11	US-11-179-411-18	Sequence 18, Appl	363	28	52.8	851	9	US-10-330-773-357	Sequence 397, App
291	28	52.8	311	11	US-11-179-411-18	Sequence 18, Appl	364	28	52.8	891	9	US-10-455-772-866	Sequence 866, App
292	28	52.8	312	9	US-10-873-528-69	Sequence 69, Appl	365	28	52.8	894	11	US-11-087-099-11214	Sequence 11214, A
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296	28	52.8	332	11	US-11-096-568A-4698	Sequence 4698, App	369	28	52.8	921	9	US-10-455-772-866	Sequence 868, App
297	28	52.8	347	11	US-11-144-947-695	Sequence 695, App	370	28	52.8	925	9	US-10-455-772-858	Sequence 858, App
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398	27	50.9	35	11	US-11-174-816-96	Sequence 96, App1	471	27	50.9	299	9	US-10-152-370-366	Sequence 366, App
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409	27	50.9	70	11	US-11-079-463-10207	Sequence 10207, A	482	27	50.9	303	9	US-10-195-883-562	Sequence 562, App
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421	27	50.9	141	11	US-11-087-099-1992	Sequence 1992, App	494	27	50.9	325	11	US-11-074-176-370	Sequence 370, App
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426	27	50.9	184	11	US-11-096-568A-25177	Sequence 25177, A	499	27	50.9	333	9	US-10-973-115B-132	Sequence 132, App
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430	27	50.9	203	11	US-11-098-686-10670	Sequence 10670, A	503	27	50.9	333	11	US-11-290-153-132	Sequence 132, App
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432	27	50.9	211	11	US-11-098-686-11108	Sequence 11108, A	505	27	50.9	340	11	US-11-096-568A-237	Sequence 237, App
433	27	50.9	214	11	US-11-096-568A-20570	Sequence 20570, A	506	27	50.9	345	11	US-11-096-568A-234	Sequence 234, App
434	27	50.9	218	9	US-10-374-954-5	Sequence 5, App1	507	27	50.9	345	11	US-11-096-568A-356	Sequence 356, App
435	27	50.9	218	10	US-11-263-326-129	Sequence 129, App	508	27	50.9	346	11	US-11-096-568A-26083	Sequence 26083, App
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453	27	50.9	271	11	US-11-096-568A-8423	Sequence 8423, App	526	27	50.9	415	9	US-10-467-657-4480	Sequence 4480, App
454	27	50.9	272	11	US-11-096-568A-6787	Sequence 6787, App	527	27	50.9	415	11	US-11-096-568A-28148	Sequence 28148, A
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459	27	50.9	282	11	US-11-096-568A-357	Sequence 357, App	532	27	50.9	438	11	US-11-188-298-3838	Sequence 3838, App

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534	27	50.9	445	11	US-11-242-459-35	Sequence 35, Appl	607	27	50.9	920	9	US-10-330-773-376	Sequence 357, App
535	27	50.9	451	9	US-10-131-826A-126	Sequence 126, App	608	27	50.9	950	9	US-10-501-035-357	Sequence 357, App
536	27	50.9	451	9	US-10-973-115B-126	Sequence 126, App	609	27	50.9	955	11	US-11-096-568A-28338	Sequence 28538, A
537	27	50.9	451	9	US-10-137-873A-126	Sequence 126, App	610	27	50.9	992	11	US-11-098-686-10761	Sequence 10761, A
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542	27	50.9	459	10	US-11-302-678-11	Sequence 11, Appl	615	27	50.9	1102	9	US-10-915-002-183	Sequence 183, App
543	27	50.9	462	11	US-11-096-568A-6785	Sequence 6785, Ap	616	27	50.9	1167	9	US-10-942-072-6	Sequence 6, Appl
544	27	50.9	463	9	US-10-501-411A-341	Sequence 341, Appl	617	27	50.9	1167	9	US-10-942-072-13	Sequence 13, Appl
545	27	50.9	463	11	US-11-199-821-9	Sequence 9, Appl	618	27	50.9	1168	9	US-10-942-072-11	Sequence 11, Appl
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555	27	50.9	502	9	US-10-131-826A-548	Sequence 548, App	628	27	50.9	1927	11	US-11-079-463-6265	Sequence 4532, Ap
556	27	50.9	502	9	US-10-689-742-148	Sequence 148, App	629	27	50.9	2229	9	US-11-188-298-4532	Sequence 760, App
557	27	50.9	502	9	US-10-973-115B-548	Sequence 548, App	630	27	50.9	2323	9	US-10-793-626-760	Sequence 2, Appl
558	27	50.9	502	9	US-10-226-486-40	Sequence 40, Appl	631	27	50.9	4373	10	US-11-128-574-2	Sequence 2, Appl
559	27	50.9	502	9	US-10-137-873A-548	Sequence 548, App	632	27	50.9	4373	10	US-11-128-574-2	Sequence 6055, Ap
560	27	50.9	502	9	US-10-152-370-548	Sequence 548, App	633	27	50.9	499	11	US-11-079-463-6095	Sequence 128, App
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564	27	50.9	522	11	US-11-024-959-472	Sequence 472, App	637	26	49.1	86	11	US-11-087-099-2585	Sequence 9647, Ap
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567	27	50.9	550	11	US-11-188-298-6080	Sequence 6080, Ap	640	26	49.1	95	11	US-11-172-740-1363	Sequence 35, Appl
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569	27	50.9	561	8	US-10-505-928-163	Sequence 163, App	642	26	49.1	110	11	US-11-049-526-388	Sequence 388, App
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573	27	50.9	580	9	US-10-218-784-104	Sequence 104, App	646	26	49.1	115	9	US-10-467-657-184	Sequence 4012, Ap
574	27	50.9	598	9	US-10-219-061-104	Sequence 104, App	647	26	49.1	115	9	US-10-467-657-184	Sequence 105, App
575	27	50.9	598	9	US-10-219-062-104	Sequence 104, App	648	26	49.1	117	9	US-10-517-656-105	Sequence 25622, A
576	27	50.9	598	9	US-10-219-062-104	Sequence 104, App	649	26	49.1	121	11	US-11-096-568A-25622	Sequence 118, App
577	27	50.9	638	10	US-11-302-678-47	Sequence 47, Appl	650	26	49.1	122	9	US-10-993-543-118	Sequence 25621, A
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579	27	50.9	673	9	US-10-063-703-16	Sequence 16, Appl	652	26	49.1	125	11	US-11-096-568A-25621	Sequence 4, Appl
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587	27	50.9	711	11	US-11-188-298-12213	Sequence 12213, A	660	26	49.1	184	11	US-11-045-004-979	Sequence 15443, A
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589	27	50.9	766	9	US-10-793-626-420	Sequence 420, App	662	26	49.1	188	11	US-11-096-568A-15200	Sequence 14545, A
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592	27	50.9	799	11	US-11-200-296B-71	Sequence 71, Appl	665	26	49.1	197	11	US-11-188-298-15443	Sequence 14540, A
593	27	50.9	805	11	US-11-074-176-172	Sequence 172, App	666	26	49.1	198	11	US-11-188-298-14540	Sequence 14540, A
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595	27	50.9	807	11	US-11-124-367A-412	Sequence 412, App	668	26	49.1	204	11	US-11-128-440-3	Sequence 14840, A
596	27	50.9	807	11	US-11-087-099-12161	Sequence 12161, A	669	26	49.1	204	11	US-11-096-568A-14840	Sequence 8, Appl
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599	27	50.9	816	9	US-10-501-675-9	Sequence 9, Appl	672	26	49.1	213	11	US-11-096-568A-30853	Sequence 99, Appl
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700	26	49.1	281	9	US-10-467-657-200	Sequence 200, App	773	26	49.1	419	11	US-11-172-740-744	Sequence 744, App
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703	26	49.1	288	11	US-11-045-004-626	Sequence 626, App	776	26	49.1	423	11	US-11-087-099-651	Sequence 651, App
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713	26	49.1	314	11	US-11-188-298-10182	Sequence 10182, A	786	26	49.1	439	11	US-11-096-568A-22931	Sequence 22931, A
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716	26	49.1	318	11	US-11-087-099-3001	Sequence 3001, Ap	789	26	49.1	445	9	US-10-067-974-12	Sequence 12, Appl1
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718	26	49.1	322	9	US-10-747-702-7	Sequence 7, Appl1	791	26	49.1	450	11	US-11-079-463-8782	Sequence 8782, Ap
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729	26	49.1	343	11	US-11-294-997-32	Sequence 32, Appl1	802	26	49.1	498	11	US-11-079-463-5414	Sequence 5414, Ap
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734	26	49.1	351	11	US-11-087-099-6490	Sequence 6490, Ap	807	26	49.1	508	11	US-11-087-099-5746	Sequence 5746, Ap
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736	26	49.1	351	11	US-11-128-059-90	Sequence 90, Appl1	809	26	49.1	511	11	US-11-188-298-20331	Sequence 20331, A
737	26	49.1	353	11	US-11-188-298-11117	Sequence 11117, A	810	26	49.1	512	11	US-11-010-239-69	Sequence 69, Appl1
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744	26	49.1	366	11	US-11-045-004-238	Sequence 238, App	817	26	49.1	528	11	US-11-188-298-18925	Sequence 18925, A
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749	26	49.1	371	11	US-11-096-568A-26615	Sequence 26615, A	822	26	49.1	537	11	US-11-179-958A-2	Sequence 2, Appl1
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827	26	49.1	552	9	US-10-453-372-242	Sequence 242, App	900	26	49.1	802	9	US-10-245-015-78	Sequence 78, Appl
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829	26	49.1	552	9	US-10-453-372-246	Sequence 246, App	902	26	49.1	869	11	US-11-087-099-2292	Sequence 2292, App
830	26	49.1	552	9	US-10-453-372-248	Sequence 248, App	903	26	49.1	869	11	US-11-087-099-4580	Sequence 4580, App
831	26	49.1	552	9	US-10-453-372-250	Sequence 250, App	904	26	49.1	869	11	US-11-188-298-4225	Sequence 4225, App
832	26	49.1	556	9	US-10-453-372-210	Sequence 210, App	905	26	49.1	869	11	US-11-188-298-13250	Sequence 13250, App
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836	26	49.1	594	11	US-11-079-463-6677	Sequence 6677, App	909	26	49.1	925	11	US-11-096-568A-28152	Sequence 28152, App
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838	26	49.1	609	11	US-11-087-099-10836	Sequence 10836, App	911	26	49.1	931	11	US-11-230-145-2	Sequence 2, Appl
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841	26	49.1	625	11	US-11-096-568A-27721	Sequence 27731, App	914	26	49.1	967	11	US-11-124-367A-312	Sequence 312, App
842	26	49.1	625	11	US-11-096-568A-29564	Sequence 29564, App	915	26	49.1	973	11	US-11-188-298-1272	Sequence 1272, App
843	26	49.1	625	11	US-11-188-298-5306	Sequence 6306, App	916	26	49.1	986	9	US-10-821-234-1310	Sequence 1310, App
844	26	49.1	626	11	US-10-467-657-1196	Sequence 1196, App	917	26	49.1	986	9	US-11-087-099-7973	Sequence 7973, App
845	26	49.1	626	11	US-11-010-748A-1	Sequence 1, Appl	918	26	49.1	986	11	US-11-188-298-18404	Sequence 18404, App
846	26	49.1	628	11	US-11-183-136-10	Sequence 10, Appl	919	26	49.1	986	11	US-11-079-463-5529	Sequence 5529, App
847	26	49.1	630	11	US-11-096-568A-30539	Sequence 30539, App	920	26	49.1	996	11	US-10-517-939-130	Sequence 130, App
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852	26	49.1	645	11	US-11-188-298-11600	Sequence 11600, App	925	26	49.1	1067	11	US-11-209-317-3	Sequence 3, Appl
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861	26	49.1	675	11	US-11-096-568A-29563	Sequence 29563, App	934	26	49.1	1193	11	US-10-501-033-303	Sequence 303, App
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865	26	49.1	691	11	US-11-045-004-367	Sequence 367, App	938	26	49.1	1218	11	US-11-103-077-21	Sequence 21, Appl
866	26	49.1	694	11	US-11-079-463-5292	Sequence 5292, App	939	26	49.1	1218	11	US-11-022-478-1	Sequence 1, Appl
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871	26	49.1	711	11	US-11-188-298-4875	Sequence 4875, App	944	26	49.1	1238	11	US-11-103-077-21	Sequence 21, Appl
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877	26	49.1	721	11	US-11-128-058-88	Sequence 88, Appl	950	26	49.1	1270	9	US-10-453-372-1146	Sequence 1146, App
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879	26	49.1	726	11	US-11-051-720-1604	Sequence 1604, App	952	26	49.1	1288	9	US-11-128-059-92	Sequence 92, Appl
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884	26	49.1	759	11	US-11-188-298-6146	Sequence 6146, App	957	26	49.1	1408	9	US-11-128-059-4	Sequence 4, Appl
885	26	49.1	797	9	US-10-469-469-48	Sequence 48, Appl	958	26	49.1	1416	11	US-11-114-962-3	Sequence 3, Appl
886	26	49.1	797	9	US-10-469-469-208	Sequence 208, App	959	26	49.1	1419	11	US-11-128-059-2	Sequence 2, Appl
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892	26	49.1	802	9	US-10-243-215-78	Sequence 78, Appl	965	26	49.1	1488	11	US-11-096-568A-31239	Sequence 31239, App
893	26	49.1	802	9	US-10-243-236-78	Sequence 78, Appl	966	26	49.1	1496	11	US-10-453-372-252	Sequence 252, App
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972 26 49.1 1664 9 US-10-055-877-212 Sequence 212, App
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974 26 49.1 1763 8 US-10-504-120-21 Sequence 21, App1
975 26 49.1 1807 8 US-10-504-120-22 Sequence 22, App1
976 26 49.1 1871 8 US-10-501-834-26 Sequence 26, App1
977 26 49.1 2313 11 US-11-128-059-80 Sequence 80, App1
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982 26 49.1 2471 11 US-11-050-346-68 Sequence 68, App1
983 26 49.1 2551 9 US-10-453-372-256 Sequence 256, App
984 26 49.1 2551 11 US-11-128-059-86 Sequence 96, App1
985 26 49.1 2871 8 US-10-505-928-100 Sequence 100, App
986 26 49.1 2871 11 US-11-124-367A-264 Sequence 264, App
987 26 49.1 3433 9 US-10-714-781A-67 Sequence 67, App1
988 26 49.1 3433 11 US-11-223-729-2 Sequence 2, App1
989 26 49.1 3635 11 US-11-019-711-47 Sequence 47, App1
990 26 49.1 6738 9 US-10-922-232B-56 Sequence 56, App1
991 25.5 48.1 231 11 US-11-188-228-12078 Sequence 12078, A
992 25.5 48.1 423 11 US-11-098-686-11089 Sequence 11089, A
993 25 47.2 8 11 US-11-045-024-437 Sequence 437, App
994 25 47.2 8 11 US-11-045-024-8642 Sequence 8642, App
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996 25 47.2 9 9 US-10-530-061-750 Sequence 750, App
997 25 47.2 9 11 US-11-128-440-75 Sequence 75, App1
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ALIGNMENTS

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RESULT 1
US-10-511-814-8
; Sequence 8, Application US/10511814
; Publication No. US20060088472A1
; GENERAL INFORMATION:
; APPLICANT: McNamee, Dennis
; TITLE OF INVENTION: E7 REGULATION OF P21 (CIP1) THROUGH AKT
; FILE REFERENCE: 21108.0016U2
; CURRENT APPLICATION NUMBER: US/10/511,814
; PRIOR FILING DATE: 2004-10-19
; PRIOR APPLICATION NUMBER: PCT/US03/12667
; PRIOR FILING DATE: 2003-04-21
; APPLICATION NUMBER: 60/374,245
; PRIOR FILING DATE: 2002-04-19
; NUMBER OF SEQ ID NOS: 21
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 8
; LENGTH: 98
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence:/Note =
US-10-511-814-8
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Best Local Similarity 100.0%; Pred. No. 0.013;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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Db 19 TTDLYCYEQ 27
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US-10-511-814-11
; Sequence 11, Application US/10511814
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; Publication No. US20060088472A1
; GENERAL INFORMATION:
; APPLICANT: McNamee, Dennis
; TITLE OF INVENTION: E7 REGULATION OF P21 (CIP1) THROUGH AKT
; FILE REFERENCE: 21108.0016U2
; CURRENT APPLICATION NUMBER: US/10/511,814
; PRIOR FILING DATE: 2004-10-19
; PRIOR APPLICATION NUMBER: PCT/US03/12667
; PRIOR FILING DATE: 2003-04-21
; PRIOR APPLICATION NUMBER: 60/374,245
; PRIOR FILING DATE: 2002-04-19
; NUMBER OF SEQ ID NOS: 21
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 11
; LENGTH: 98
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence:/Note =
US-10-511-814-11
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Query Match 100.0%; Score 53; DB 8; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.013;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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OY 1 TTDLYCYEQ 9
Db 19 TTDLYCYEQ 27
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RESULT 3
US-10-530-253-14
; Sequence 14, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Cassecci, Maria C.
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 14
; LENGTH: 98
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-10-530-253-14
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Query Match 100.0%; Score 53; DB 9; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.013;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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OY 1 TTDLYCYEQ 9
Db 19 TTDLYCYEQ 27
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RESULT 4
US-11-179-478-4
; Sequence 4, Application US/11179478
; Publication No. US20050249745A1
; GENERAL INFORMATION:
; APPLICANT: BURGER, Alexander
; APPLICANT: HALLER, Michael
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TITLE OF INVENTION: PAPILLOMA VIRUS CAPSOMERE VACCINE
TITLE OF INVENTION: FORMULATIONS AND METHODS OF USE
NUMBER OF SEQUENCES: 28
CORRESPONDENCE ADDRESS:
ADDRESSEE: FOLEY & LARDNER
STREET: 3000 K Street, N.W.
CITY: Washington
STATE: D.C.
COUNTRY: U.S.A.
ZIP: 20007-5109
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/11/179,478
FILING DATE: 13-JULY-2005
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/10/654,129
FILING DATE: 04-Sep-2003
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: Sandercock, Colin G.
REGISTRATION NUMBER: 31,298
REFERENCE/DOCKET NUMBER: 37067/102
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 672-5300
TELEFAX: (202) 672-5399
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 98 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-11-179-478-4

Query Match 100.0%; Score 53; DB 11; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.013; Indels 0; Gaps 0;
Matches 9; Conservative 0; Mismatches 0;

Qy 1 TTDLVCEQ 9
Db 19 TTDLVCEQ 27

RESULT 5
US-10-530-253-1
; Sequence 1, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Cassetti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhiney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: Patentin version 3.1
; SEQ ID NO 1
; LENGTH: 248
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-10-530-253-1

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Best Local Similarity 100.0%; Pred. No. 0.028;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1 TTDLVCEQ 9
Db 169 TTDLVCEQ 177

RESULT 6
US-10-530-253-7
; Sequence 7, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Cassetti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhiney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: Patentin version 3.1
; SEQ ID NO 7
; LENGTH: 248
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-10-530-253-7

Query Match 100.0%; Score 53; DB 9; Length 248;
Best Local Similarity 100.0%; Pred. No. 0.028;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TTDLVCEQ 9
Db 19 TTDLVCEQ 27

RESULT 7
US-11-192-923A-2
; Sequence 2, Application US/11192923A
; Publication No. US20060018928A1
; GENERAL INFORMATION:
; APPLICANT: PANG, XIOMU
; TITLE OF INVENTION: VIRUS-LIKE PARTICLE CONTAINING A DENGUE VIRUS
; FILE REFERENCE: 116620-003
; CURRENT APPLICATION NUMBER: US/11/192,923A
; CURRENT FILING DATE: 2005-07-29
; PRIOR APPLICATION NUMBER: CN 03115272.4
; PRIOR FILING DATE: 2003-01-30
; PRIOR APPLICATION NUMBER: CN 03115273.2
; PRIOR FILING DATE: 2003-01-30
; NUMBER OF SEQ ID NOS: 45
; SOFTWARE: Patentin Ver. 3.3
; SEQ ID NO 2
; LENGTH: 256
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-11-192-923A-2

Query Match 100.0%; Score 53; DB 11; Length 256;
Best Local Similarity 100.0%; Pred. No. 0.029;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TTDLVCEQ 9
Db 19 TTDLVCEQ 27

RESULT 8
US-10-530-061-1749
; Sequence 1749, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.03US02/EKS/M-W
; CURRENT APPLICATION NUMBER: US/10/530,061
; PRIOR FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1749
; LENGTH: 15
; TYPE: PRT
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US-10-530-061-1749

Query Match 90.6%; Score 48; DB 9; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.021;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TTDLVCEY 8
Db 8 TTDLVCEY 15

RESULT 9
US-10-530-253-29
; Sequence 29, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Casasetti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; PRIOR FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
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; TYPE: PRT
; ORGANISM: Human papillomavirus type 33
US-10-530-253-29

Query Match 90.6%; Score 48; DB 9; Length 97;
Best Local Similarity 100.0%; Pred. No. 0.099;
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Qy 2 TDLYCEY 9
Db 20 TDLYCEY 27

RESULT 10
US-10-530-253-30
; Sequence 30, Application US/10530253

; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Casasetti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; PRIOR FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 30
; LENGTH: 99
; TYPE: PRT
; ORGANISM: Human papillomavirus type 35
US-10-530-253-30

Query Match 90.6%; Score 48; DB 9; Length 99;
Best Local Similarity 100.0%; Pred. No. 0.1;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 TDLYCEY 9
Db 20 TDLYCEY 27

RESULT 11
US-10-530-253-34
; Sequence 34, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Casasetti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; PRIOR FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 34
; LENGTH: 99
; TYPE: PRT
; ORGANISM: Human papillomavirus type 52
US-10-530-253-34

Query Match 90.6%; Score 48; DB 9; Length 99;
Best Local Similarity 88.9%; Pred. No. 0.1;
Matches 8; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TTDLVCEY 9
Db 19 TTDLVCEY 27

RESULT 12
US-10-530-253-36
; Sequence 36, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Casasetti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen

```

; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 36
; LENGTH: 98
; TYPE: PRT
; ORGANISM: Human papillomavirus type 58
US-10-530-253-36

```

```

Query Match      83.0%; Score 44; DB 9; Length 98;
Best Local Similarity 87.5%; Pred. No. 0.5;
Matches 7; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

```

```

QY      2 TDLVCEQ 9
      |||:||||
Db      20 TDLVCEQ 27

```

```

RESULT 13
US-10-530-061-1750
; Sequence 1750, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SUTNEY, JOHN
; APPLICANT: SIDNEY, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.033US02/EKS/M-W
; CURRENT APPLICATION NUMBER: US/10/530,061
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1750
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-1750

```

```

Query Match      81.1%; Score 43; DB 9; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.16;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

QY      2 TDLVCE 8
      |||:||||
Db      9 TDLVCE 15

```

```

RESULT 14
US-10-530-253-28
; Sequence 28, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Casasetti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253

```

```

; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 28
; LENGTH: 98
; TYPE: PRT
; ORGANISM: Human papillomavirus type 31
US-10-530-253-28

```

```

Query Match      81.1%; Score 43; DB 9; Length 98;
Best Local Similarity 87.5%; Pred. No. 0.75;
Matches 7; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

```

```

QY      2 TDLVCEQ 9
      |||:||||
Db      20 TDLVCEQ 27

```

```

RESULT 15
US-11-188-298-5295
; Sequence 5295, Application US/11188298
; Publication No. US20060075522A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
; FILE REFERENCE: 38-21(53452)B
; CURRENT APPLICATION NUMBER: US/11/188,298
; CURRENT FILING DATE: 2005-07-22
; PRIOR APPLICATION NUMBER: 60/592,978
; PRIOR FILING DATE: 2004-07-31
; NUMBER OF SEQ ID NOS: 22569
; SEQ ID NO 5295
; LENGTH: 642
; TYPE: PRT
; ORGANISM: Nostoc punctiforme
US-11-188-298-5295

```

```

Query Match      67.9%; Score 36; DB 11; Length 642;
Best Local Similarity 71.4%; Pred. No. 60;
Matches 5; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

```

```

QY      1 TDLVCE 7
      |||:||||
Db      461 TDLVCE 467

```

```

RESULT 16
US-11-188-298-17111
; Sequence 17111, Application US/11188298
; Publication No. US20060075522A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
; FILE REFERENCE: 38-21(53452)B
; CURRENT APPLICATION NUMBER: US/11/188,298
; CURRENT FILING DATE: 2005-07-22
; PRIOR APPLICATION NUMBER: 60/592,978
; PRIOR FILING DATE: 2004-07-31
; NUMBER OF SEQ ID NOS: 22569
; SEQ ID NO 17111
; LENGTH: 642
; TYPE: PRT
; ORGANISM: Nostoc sp. PCC 7120
US-11-188-298-17111

```

```

Query Match      67.9%; Score 36; DB 11; Length 642;
Best Local Similarity 71.4%; Pred. No. 60;
Matches 5; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

```

Oy 1 TTDLXCY 7
|:|:|:|
Db 461 TSDVICY 467

RESULT 17

US-10-495-083-4
; Sequence 4, Application US/10495083
; Publication No. US2006008800A1
; GENERAL INFORMATION:
; APPLICANT: Max-Planck-Gesellschaft zur Forderung der Wissenschaften e.V.
; APPLICANT: ROSENTHAL, Christian
; APPLICANT: BROSE, Nils
; APPLICANT: RHEE, Jeong-Seop
; APPLICANT: BETZ, Andrea
; APPLICANT: RETTIG, Jens
; APPLICANT: ASHERY, Uri
; APPLICANT: JUNGE, Harald
; TITLE OF INVENTION: UNC-13 IN THE MODULATION OF NEUROTRANSMISSION AND SECRETION EVENT
; FILE REFERENCE: 009848-0309442
; CURRENT APPLICATION NUMBER: US/10/495,083
; PRIOR FILING DATE: 2004-05-05
; PRIOR APPLICATION NUMBER: PCT/EP02/12072
; PRIOR FILING DATE: 2002-10-29
; PRIOR APPLICATION NUMBER: EP 01 12 6235.9
; PRIOR FILING DATE: 2001-11-05
; NUMBER OF SEQ ID NOS: 12
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 4
; LENGTH: 1591
; TYPE: PRT
; ORGANISM: Mus musculus
US-10-495-083-4

Query Match 67.9%; Score 36; DB 9; Length 1591;
Best Local Similarity 75.0%; Pred. No. 1.3e+02;
Matches 6; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Oy 1 TTDLXCY 8
|||
Db 486 TTPYCYE 493

RESULT 18

US-10-495-083-5
; Sequence 5, Application US/10495083
; Publication No. US2006008800A1
; GENERAL INFORMATION:
; APPLICANT: Max-Planck-Gesellschaft zur Forderung der Wissenschaften e.V.
; APPLICANT: ROSENTHAL, Christian
; APPLICANT: BROSE, Nils
; APPLICANT: RHEE, Jeong-Seop
; APPLICANT: BETZ, Andrea
; APPLICANT: RETTIG, Jens
; APPLICANT: ASHERY, Uri
; APPLICANT: JUNGE, Harald
; TITLE OF INVENTION: UNC-13 IN THE MODULATION OF NEUROTRANSMISSION AND SECRETION EVENT
; FILE REFERENCE: 009848-0309442
; CURRENT APPLICATION NUMBER: US/10/495,083
; PRIOR FILING DATE: 2004-05-05
; PRIOR APPLICATION NUMBER: PCT/EP02/12072
; PRIOR FILING DATE: 2002-10-29
; PRIOR APPLICATION NUMBER: EP 01 12 6235.9
; PRIOR FILING DATE: 2001-11-05
; NUMBER OF SEQ ID NOS: 12
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 5
; LENGTH: 1591
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-495-083-5

Query Match 67.9%; Score 36; DB 9; Length 1591;

Best Local Similarity 75.0%; Pred. No. 1.3e+02;
Matches 6; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Oy 1 TTDLXCY 8
|||
Db 486 TTPYCYE 493

RESULT 19

US-10-495-083-6
; Sequence 6, Application US/10495083
; Publication No. US2006008800A1
; GENERAL INFORMATION:
; APPLICANT: Max-Planck-Gesellschaft zur Forderung der Wissenschaften e.V.
; APPLICANT: ROSENTHAL, Christian
; APPLICANT: BROSE, Nils
; APPLICANT: RHEE, Jeong-Seop
; APPLICANT: BETZ, Andrea
; APPLICANT: RETTIG, Jens
; APPLICANT: ASHERY, Uri
; APPLICANT: JUNGE, Harald
; TITLE OF INVENTION: UNC-13 IN THE MODULATION OF NEUROTRANSMISSION AND SECRETION EVENT
; FILE REFERENCE: 009848-0309442
; CURRENT APPLICATION NUMBER: US/10/495,083
; PRIOR FILING DATE: 2004-05-05
; PRIOR APPLICATION NUMBER: PCT/EP02/12072
; PRIOR FILING DATE: 2002-10-29
; PRIOR APPLICATION NUMBER: EP 01 12 6235.9
; PRIOR FILING DATE: 2001-11-05
; NUMBER OF SEQ ID NOS: 12
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 6
; LENGTH: 1622
; TYPE: PRT
; ORGANISM: Rattus norvegicus
US-10-495-083-6

Query Match 67.9%; Score 36; DB 9; Length 1622;
Best Local Similarity 75.0%; Pred. No. 1.3e+02;
Matches 6; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Oy 1 TTDLXCY 8
|||
Db 499 TTPYCYE 506

RESULT 20

US-10-495-083-3
; Sequence 3, Application US/10495083
; Publication No. US2006008800A1
; GENERAL INFORMATION:
; APPLICANT: Max-Planck-Gesellschaft zur Forderung der Wissenschaften e.V.
; APPLICANT: ROSENTHAL, Christian
; APPLICANT: BROSE, Nils
; APPLICANT: RHEE, Jeong-Seop
; APPLICANT: BETZ, Andrea
; APPLICANT: RETTIG, Jens
; APPLICANT: ASHERY, Uri
; APPLICANT: JUNGE, Harald
; TITLE OF INVENTION: UNC-13 IN THE MODULATION OF NEUROTRANSMISSION AND SECRETION EVENT
; FILE REFERENCE: 009848-0309442
; CURRENT APPLICATION NUMBER: US/10/495,083
; PRIOR FILING DATE: 2004-05-05
; PRIOR APPLICATION NUMBER: PCT/EP02/12072
; PRIOR FILING DATE: 2002-10-29
; PRIOR APPLICATION NUMBER: EP 01 12 6235.9
; PRIOR FILING DATE: 2001-11-05
; NUMBER OF SEQ ID NOS: 12
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 3
; LENGTH: 1735
; TYPE: PRT
; ORGANISM: Rattus norvegicus

US-10-495-083-3

Query Match 67.9%; Score 36; DB 9; Length 1735;
Best Local Similarity 75.0%; Pred. No. 1.4e+02;
Matches 6; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 TTDLCYE 8
|||
575 TTPTCYE 582

RESULT 21

US-10-495-083-7
; Sequence 7, Application US/10495083
; Publication No. US20060008800A1
; GENERAL INFORMATION:
; APPLICANT: Max-Planck-Gesellschaft zur Forderung der Wissenschaften e.V.
; APPLICANT: ROSENMUND, Christian
; APPLICANT: BROSE, Nils
; APPLICANT: RHEE, Jeong-Seop
; APPLICANT: BETZ, Andrea
; APPLICANT: RETTIG, Jens
; APPLICANT: ASHERY, Uri
; APPLICANT: JUNG, Harald
; TITLE OF INVENTION: UNC-13 IN THE MODULATION OF NEUROTRANSMISSION AND SECRETION EVENT
; FILE REFERENCE: 009848-0309442
; CURRENT APPLICATION NUMBER: US/10/495,083
; PRIOR FILING DATE: 2004-05-05
; PRIOR APPLICATION NUMBER: PCT/EP02/12072
; PRIOR FILING DATE: 2002-10-29
; PRIOR APPLICATION NUMBER: EP 01 12 6235.9
; PRIOR FILING DATE: 2001-11-05
; NUMBER OF SEQ ID NOS: 12
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 7
; LENGTH: 1985
; TYPE: PRT
; ORGANISM: Rattus norvegicus
US-10-495-083-7

Query Match 67.9%; Score 36; DB 9; Length 1985;
Best Local Similarity 75.0%; Pred. No. 1.5e+02;
Matches 6; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 TTDLCYE 8
|||
Db 862 TTPTCYE 869

RESULT 22

US-10-495-083-8
; Sequence 8, Application US/10495083
; Publication No. US20060008800A1
; GENERAL INFORMATION:
; APPLICANT: Max-Planck-Gesellschaft zur Forderung der Wissenschaften e.V.
; APPLICANT: ROSENMUND, Christian
; APPLICANT: BROSE, Nils
; APPLICANT: RHEE, Jeong-Seop
; APPLICANT: BETZ, Andrea
; APPLICANT: RETTIG, Jens
; APPLICANT: ASHERY, Uri
; APPLICANT: JUNG, Harald
; TITLE OF INVENTION: UNC-13 IN THE MODULATION OF NEUROTRANSMISSION AND SECRETION EVENT
; FILE REFERENCE: 009848-0309442
; CURRENT APPLICATION NUMBER: US/10/495,083
; PRIOR FILING DATE: 2004-05-05
; PRIOR APPLICATION NUMBER: PCT/EP02/12072
; PRIOR FILING DATE: 2002-10-29
; PRIOR APPLICATION NUMBER: EP 01 12 6235.9
; PRIOR FILING DATE: 2001-11-05
; NUMBER OF SEQ ID NOS: 12
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 8

LENGTH: 2204

TYPE: PRT
ORGANISM: Rattus norvegicus
US-10-495-083-8

Query Match 67.9%; Score 36; DB 9; Length 2204;
Best Local Similarity 75.0%; Pred. No. 1.6e+02;
Matches 6; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 TTDLCYE 8
|||
Db 1096 TTPTCYE 1103

RESULT 23

US-10-530-253-33
; Sequence 33, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Cassecci, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; PRIOR FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 33
; LENGTH: 101
; TYPE: PRT
; ORGANISM: Human papillomavirus type 51
US-10-530-253-33

Query Match 66.0%; Score 35; DB 9; Length 101;
Best Local Similarity 85.7%; Pred. No. 20;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 3 DLICYEQ 9
|||
Db 22 DLICYEQ 28

RESULT 24

US-10-530-253-40
; Sequence 40, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Cassecci, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; PRIOR FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 40
; LENGTH: 104
; TYPE: PRT
; ORGANISM: Human papillomavirus
; FEATURE:
; NAME/KEY: MISC_FEATURE

LOCATION: (1) ..(104)
; OTHER INFORMATION: where Xaa is any amino acid
US-10-530-253-40

Query Match 66.0%; Score 35; DB 9; Length 104;
Best Local Similarity 85.7%; Pred. No. 20;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 3 DLVCEQ 9
|||
Db 22 DLXCEQ 28

RESULT 25
US-10-530-253-32
; Sequence 32, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Casseati, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; PRIOR FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 32
; LENGTH: 106
; TYPE: PRT
; ORGANISM: Human papillomavirus type 45
US-10-530-253-32

Query Match 66.0%; Score 35; DB 9; Length 106;
Best Local Similarity 85.7%; Pred. No. 21;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 3 DLVCEQ 9
|||
Db 25 DLCTEQ 31

RESULT 26
US-10-530-253-37
; Sequence 37, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Casseati, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; PRIOR FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 37
; LENGTH: 107
; TYPE: PRT
; ORGANISM: Human papillomavirus type 59
US-10-530-253-37

Query Match 66.0%; Score 35; DB 9; Length 107;

Best Local Similarity 85.7%; Pred. No. 21;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 3 DLVCEQ 9
|||
Db 24 DLVCEQ 30

RESULT 27
US-11-188-298-4062
; Sequence 4062, Application US/11188298
; Publication No. US20060075522A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
; FILE REFERENCE: 38-21(53452)B
; CURRENT APPLICATION NUMBER: US/11/188,298
; PRIOR FILING DATE: 2005-07-22
; PRIOR APPLICATION NUMBER: 60/592,978
; PRIOR FILING DATE: 2004-07-31
; NUMBER OF SEQ ID NOS: 22569
; SEQ ID NO 4062
; LENGTH: 642
; TYPE: PRT
; ORGANISM: Nostoc sp. PCC 9229
US-11-188-298-4062

Query Match 66.0%; Score 35; DB 11; Length 642;
Best Local Similarity 71.4%; Pred. No. 90;
Matches 5; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

OY 1 TTDLVY 7
|||
Db 461 TNDVY 467

RESULT 28
US-10-530-253-3
; Sequence 3, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Casseati, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; PRIOR FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 3
; LENGTH: 248
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-10-530-253-3

Query Match 64.2%; Score 34; DB 9; Length 248;
Best Local Similarity 77.8%; Pred. No. 62;
Matches 7; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

OY 1 TTDLVCEQ 9
|||
Db 169 TTDLVCEQ 177

RESULT 29
US-10-530-253-5
; Sequence 5, Application US/10530253

```
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Casasetti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhiney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 5
; LENGTH: 248
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-10-530-253-5
```

```
Query Match          64.2%; Score 34; DB 9; Length 248;
Best Local Similarity 77.8%; Pred. No. 62;
Matches 7; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
```

```
QY 1 TTDLYCYEQ 9
DB 169 TTDLYGYGQ 177
```

```
RESULT 30
US-10-530-253-9
; Sequence 9, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Casasetti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhiney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 9
; LENGTH: 248
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-10-530-253-9
```

```
Query Match          64.2%; Score 34; DB 9; Length 248;
Best Local Similarity 77.8%; Pred. No. 62;
Matches 7; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
```

```
QY 1 TTDLYCYEQ 9
DB 19 TTDLYGYGQ 27
```

```
RESULT 31
US-10-530-253-11
; Sequence 11, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Casasetti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
```

```
; APPLICANT: Susan P. McElhiney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 11
; LENGTH: 248
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-10-530-253-11
```

```
Query Match          64.2%; Score 34; DB 9; Length 248;
Best Local Similarity 77.8%; Pred. No. 62;
Matches 7; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
```

```
QY 1 TTDLYCYEQ 9
DB 19 TTDLYGYGQ 27
```

```
RESULT 32
US-10-485-517-212
; Sequence 212, Application US/10485517
; Publication No. US20050256299A1
; GENERAL INFORMATION:
; APPLICANT: University of Sheffield
; APPLICANT: Biosynexus Incorporated
; APPLICANT: Foster, Simon
; APPLICANT: Mond, James
; TITLE OF INVENTION: Antigenic Polypeptides
; FILE REFERENCE: P100629WO
; CURRENT APPLICATION NUMBER: US/10/485,517
; CURRENT FILING DATE: 2004-02-02
; PRIOR APPLICATION NUMBER: GB 0118825.9
; PRIOR FILING DATE: 2001-08-02
; PRIOR APPLICATION NUMBER: GB 0200349.9
; PRIOR FILING DATE: 2002-01-09
; NUMBER OF SEQ ID NOS: 424
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 212
; LENGTH: 1448
; TYPE: PRT
; ORGANISM: Staphylococcus aureus
US-10-485-517-212
```

```
Query Match          64.2%; Score 34; DB 9; Length 1448;
Best Local Similarity 85.7%; Pred. No. 2,6e+02;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
QY 1 TTDLYCY 7
DB 736 TTDLYAY 742
```

```
RESULT 33
US-11-188-298-16328
; Sequence 16328, Application US/11188298
; Publication No. US20060075522A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
; FILE REFERENCE: 38-21(53452)B
; CURRENT APPLICATION NUMBER: US/11/188,298
; CURRENT FILING DATE: 2005-07-22
; PRIOR APPLICATION NUMBER: 60/592,978
; PRIOR FILING DATE: 2004-07-31
; NUMBER OF SEQ ID NOS: 22569
```

```

; SEQ ID NO 16328
; LENGTH: 261
; TYPE: PRT
; ORGANISM: Xylella fastidiosa Temeculacal
US-11-188-298-16328

Query Match
Best Local Similarity 62.3%; Score 33; DB 11; Length 261;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY      2 TDLYCYEQ 9
      :|||
      :|||
      :|||
Db      207 SDLYYYEQ 214

RESULT 34
US-11-087-099-9420
; Sequence 9420, Application US/11087099
; Publication No. US20060041961A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: Genes and Uses for Plant Improvement
; FILE REFERENCE: 38-21(53450)B EP
; CURRENT APPLICATION NUMBER: US/11/087,099
; CURRENT FILING DATE: 2005-03-22
; NUMBER OF SEQ ID NOS: 12464
; SEQ ID NO 9420
; LENGTH: 615
; TYPE: PRT
; ORGANISM: Legionella pneumophila
US-11-087-099-9420

Query Match
Best Local Similarity 62.3%; Score 33; DB 11; Length 615;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      5 YCYEQ 9
      :|||
      :|||
      :|||
Db      600 YCYEQ 604

RESULT 35
US-11-188-298-19754
; Sequence 19754, Application US/11188298
; Publication No. US20060075522A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
; FILE REFERENCE: 38-21(53452)B
; CURRENT APPLICATION NUMBER: US/11/188,298
; CURRENT FILING DATE: 2005-07-22
; PRIOR APPLICATION NUMBER: 60/592,978
; PRIOR FILING DATE: 2004-07-31
; NUMBER OF SEQ ID NOS: 22569
; SEQ ID NO 19754
; LENGTH: 615
; TYPE: PRT
; ORGANISM: Legionella pneumophila
US-11-188-298-19754

Query Match
Best Local Similarity 62.3%; Score 33; DB 11; Length 615;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      5 YCYEQ 9
      :|||
      :|||
      :|||
Db      600 YCYEQ 604

RESULT 36
US-11-183-261-41
; Sequence 41, Application US/11183261
; Publication No. US20060078913A1

; GENERAL INFORMATION:
; APPLICANT: Macina, Roberto
; APPLICANT: Turner, Leah
; APPLICANT: Vartanian, Steffan
; APPLICANT: Liu, Shu-Hui
; APPLICANT: Rodriguez, Maria
; APPLICANT: Chen, Hwei-Mei
; TITLE OF INVENTION: COMPOSITIONS, SPICE VARIANTS AND METHODS RELATING TO CANCER SPEC
; FILE REFERENCE: DEX0463US(DEX-0558)
; CURRENT APPLICATION NUMBER: US/11/183,261
; CURRENT FILING DATE: 2005-07-15
; PRIOR APPLICATION NUMBER: US 60/588,881
; PRIOR FILING DATE: 2004-07-16
; NUMBER OF SEQ ID NOS: 83
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 41
; LENGTH: 655
; TYPE: PRT
; ORGANISM: Homo sapien
US-11-183-261-41

Query Match
Best Local Similarity 62.3%; Score 33; DB 11; Length 655;
Matches 5; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY      1 TTDLYCY 7
      :|||
      :|||
      :|||
Db      238 TYDVYCY 244

RESULT 37
US-10-877-346-61
; Sequence 61, Application US/10877346
; Publication No. US20060014153A1
; GENERAL INFORMATION:
; APPLICANT: Gerlach, Valerie L.
; APPLICANT: MacDougall, John R
; APPLICANT: Smithson, Glenda
; APPLICANT: Willet, Isabelle
; APPLICANT: Stone, David
; APPLICANT: Gunther, Erik
; APPLICANT: Ellerman, Karen
; APPLICANT: Grose, William M
; APPLICANT: Alsobrook II, John P
; APPLICANT: Lepley, Denise W
; APPLICANT: Burgess, Catherine E
; APPLICANT: Padigaru, Muralidhara
; APPLICANT: Kekuda, Ramesh
; APPLICANT: Spytek, Kimberly A
; APPLICANT: Leach, Martin D
; APPLICANT: Shinkets, Richard A
; TITLE OF INVENTION: Novel Proteins and Nucleic Acids Encoding Same
; FILE REFERENCE: 21402-124
; CURRENT APPLICATION NUMBER: US/10/877,346
; CURRENT FILING DATE: 2004-06-25
; PRIOR APPLICATION NUMBER: US/09/964,956
; PRIOR FILING DATE: 2001-09-26
; PRIOR APPLICATION NUMBER: 60/235,631
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: 60/235,633
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: 60/235,808
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: 60/236,064
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: 60/236,065
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: 60/236,066
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: 60/236,135
; PRIOR FILING DATE: 2000-09-28
; PRIOR APPLICATION NUMBER: 60/237,434
```

```
/ PRIOR FILING DATE: 2000-10-03
/ PRIOR APPLICATION NUMBER: 60/238,321
/ PRIOR FILING DATE: 2000-10-05
/ Remaining Prior Application data removed - See File Wrapper or PALM.
/ NUMBER OF SEQ ID NOS: 127
/ SOFTWARE: PatentIn Ver. 2.1
/ SEQ ID NO 61
/ LENGTH: 1608
/ TYPE: PRT
/ ORGANISM: Homo sapiens
US-10-877-346-61

Query Match      62.3%; Score 33; DB 9; Length 1608;
Best Local Similarity 100.0%; Pred. No. 4.3e+02;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      5 YCYEQ 9
DB      1088 YCYEQ 1092

RESULT 38
US-11-183-261-40
/ Sequence 40, Application US/11183261
/ Publication No. US20060078913A1
/ GENERAL INFORMATION:
/ APPLICANT: Macina, Roberto
/ APPLICANT: Turner, Leah
/ APPLICANT: Vartanian, Steffan
/ APPLICANT: Liu, Shu-Hui
/ APPLICANT: Rodiguez, Maria
/ TITLE OF INVENTION: COMPOSITIONS, SPLICE VARIANTS AND METHODS RELATING TO CANCER SPEC
/ FILE REFERENCE: DEX0463US(DEX-0558)
/ CURRENT APPLICATION NUMBER: US/11/183,261
/ PRIOR FILING DATE: 2005-07-15
/ PRIOR APPLICATION NUMBER: US 60/588,881
/ PRIOR FILING DATE: 2004-07-16
/ NUMBER OF SEQ ID NOS: 83
/ SOFTWARE: PatentIn version 3.1
/ SEQ ID NO 40
/ LENGTH: 1642
/ TYPE: PRT
/ ORGANISM: Homo sapien
US-11-183-261-40

Query Match      62.3%; Score 33; DB 11; Length 1642;
Best Local Similarity 71.4%; Pred. No. 4.4e+02;
Matches 5; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY      1 TTDLYCY 7
DB      238 TYDVYCY 244

RESULT 39
US-10-877-346-60
/ Sequence 60, Application US/10877346
/ Publication No. US20060014153A1
/ GENERAL INFORMATION:
/ APPLICANT: Gerlach, Valerie L
/ APPLICANT: Macdougall, John R
/ APPLICANT: Smithson, Glenda
/ APPLICANT: Miller, Isabelle
/ APPLICANT: Stone, David
/ APPLICANT: Gunther, Erik
/ APPLICANT: Eilerman, Karen
/ APPLICANT: Grose, William M
/ APPLICANT: Alsobrook II, John P
/ APPLICANT: Lepley, Denise M
/ APPLICANT: Burgess, Catherine E
/ APPLICANT: Padigaru, Muralidhara

APPLICANT: Kekuda, Rameah
APPLICANT: Spytek, Kimberly A
APPLICANT: Leach, Martin D
APPLICANT: Shmukets, Richard A
/ TITLE OF INVENTION: Novel Proteins and Nucleic Acids Encoding Same
/ FILE REFERENCE: 21402-124
/ CURRENT APPLICATION NUMBER: US/10/877,346
/ PRIOR FILING DATE: 2004-06-25
/ PRIOR APPLICATION NUMBER: US/09/964,956
/ PRIOR FILING DATE: 2001-09-26
/ PRIOR APPLICATION NUMBER: 60/235,631
/ PRIOR FILING DATE: 2000-09-27
/ PRIOR APPLICATION NUMBER: 60/235,633
/ PRIOR FILING DATE: 2000-09-27
/ PRIOR APPLICATION NUMBER: 60/235,808
/ PRIOR FILING DATE: 2000-09-27
/ PRIOR APPLICATION NUMBER: 60/236,064
/ PRIOR FILING DATE: 2000-09-27
/ PRIOR APPLICATION NUMBER: 60/236,065
/ PRIOR FILING DATE: 2000-09-27
/ PRIOR APPLICATION NUMBER: 60/236,066
/ PRIOR FILING DATE: 2000-09-27
/ PRIOR APPLICATION NUMBER: 60/236,135
/ PRIOR FILING DATE: 2000-09-28
/ PRIOR APPLICATION NUMBER: 60/237,434
/ PRIOR FILING DATE: 2000-10-03
/ PRIOR APPLICATION NUMBER: 60/238,321
/ PRIOR FILING DATE: 2000-10-05
/ Remaining Prior Application data removed - See File Wrapper or PALM.
/ NUMBER OF SEQ ID NOS: 127
/ SOFTWARE: PatentIn Ver. 2.1
/ SEQ ID NO 60
/ LENGTH: 1788
/ TYPE: PRT
/ ORGANISM: Rattus norvegicus
US-10-877-346-60

Query Match      62.3%; Score 33; DB 9; Length 1788;
Best Local Similarity 100.0%; Pred. No. 4.7e+02;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      5 YCYEQ 9
DB      1268 YCYEQ 1272

RESULT 40
US-11-183-261-38
/ Sequence 38, Application US/11183261
/ Publication No. US20060078913A1
/ GENERAL INFORMATION:
/ APPLICANT: Macina, Roberto
/ APPLICANT: Turner, Leah
/ APPLICANT: Vartanian, Steffan
/ APPLICANT: Liu, Shu-Hui
/ APPLICANT: Rodiguez, Maria
/ APPLICANT: Chen, Huel-Mei
/ TITLE OF INVENTION: COMPOSITIONS, SPLICE VARIANTS AND METHODS RELATING TO CANCER SPEC
/ FILE REFERENCE: DEX0463US(DEX-0558)
/ CURRENT APPLICATION NUMBER: US/11/183,261
/ PRIOR FILING DATE: 2005-07-15
/ PRIOR APPLICATION NUMBER: US 60/588,881
/ PRIOR FILING DATE: 2004-07-16
/ NUMBER OF SEQ ID NOS: 83
/ SOFTWARE: PatentIn version 3.1
/ SEQ ID NO 38
/ LENGTH: 2409
/ TYPE: PRT
/ ORGANISM: Homo sapien
US-11-183-261-38

Query Match      62.3%; Score 33; DB 11; Length 2409;
```

Best Local Similarity 71.4%; Pred. No. 6e+02; Indels 0; Gaps 0;
Matches 5; Conservative 1; Mismatches 1;

Qy 1 TTDLYCY 7
|:|
Db 238 TYDVYCY 244

RESULT 41

US-10-877-346-63
; Sequence 63, Application US/10877346
; Publication No. US20060014153A1
; GENERAL INFORMATION:
; APPLICANT: Gerlach, Valerie L
; APPLICANT: MacDougall, John R
; APPLICANT: Smithson, Glenda
; APPLICANT: Millet, Isabelle
; APPLICANT: Stone, David
; APPLICANT: Gunther, Erik
; APPLICANT: Ellerman, Karen
; APPLICANT: Grose, William M
; APPLICANT: Alsobrook II, John P
; APPLICANT: Lepley, Denise M
; APPLICANT: Burgess, Catherine E
; APPLICANT: Padigar, Muralidhara
; APPLICANT: Kerkuda, Ramesh
; APPLICANT: Spytek, Kimberly A
; APPLICANT: Leach, Martin D
; APPLICANT: Shinkets, Richard A
; TITLE OF INVENTION: Novel Proteins and Nucleic Acids Encoding Same
; FILE REFERENCE: 21402-124
; CURRENT APPLICATION NUMBER: US/10/877,346
; PRIOR FILING DATE: 2004-06-25
; PRIOR APPLICATION NUMBER: US/09/964,956
; PRIOR FILING DATE: 2001-09-26
; PRIOR APPLICATION NUMBER: 60/235,631
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: 60/235,633
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: 60/235,808
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: 60/236,064
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: 60/236,065
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: 60/236,066
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: 60/236,135
; PRIOR FILING DATE: 2000-09-28
; PRIOR APPLICATION NUMBER: 60/237,434
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/238,321
; PRIOR FILING DATE: 2000-10-05
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 127
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 63
; LENGTH: 2641
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-877-346-63

Query Match 62.3%; Score 33; DB 9; Length 2641;
Best Local Similarity 100.0%; Pred. No. 6.4e+02;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 5 YCYEQ 9
|:|
Db 2121 YCYEQ 2125

RESULT 42

US-10-877-346-27

; Sequence 27, Application US/10877346
; Publication No. US20060014153A1
; GENERAL INFORMATION:
; APPLICANT: Gerlach, Valerie L
; APPLICANT: MacDougall, John R
; APPLICANT: Smithson, Glenda
; APPLICANT: Millet, Isabelle
; APPLICANT: Stone, David
; APPLICANT: Gunther, Erik
; APPLICANT: Ellerman, Karen
; APPLICANT: Grose, William M
; APPLICANT: Alsobrook II, John P
; APPLICANT: Lepley, Denise M
; APPLICANT: Burgess, Catherine E
; APPLICANT: Padigar, Muralidhara
; APPLICANT: Kerkuda, Ramesh
; APPLICANT: Spytek, Kimberly A
; APPLICANT: Leach, Martin D
; APPLICANT: Shinkets, Richard A
; TITLE OF INVENTION: Novel Proteins and Nucleic Acids Encoding Same
; FILE REFERENCE: 21402-124
; CURRENT APPLICATION NUMBER: US/10/877,346
; PRIOR FILING DATE: 2004-06-25
; PRIOR APPLICATION NUMBER: US/09/964,956
; PRIOR FILING DATE: 2001-09-26
; PRIOR APPLICATION NUMBER: 60/235,631
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: 60/235,633
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: 60/235,808
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: 60/236,064
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: 60/236,065
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: 60/236,066
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: 60/236,135
; PRIOR FILING DATE: 2000-09-28
; PRIOR APPLICATION NUMBER: 60/237,434
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/238,321
; PRIOR FILING DATE: 2000-10-05
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 127
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 27
; LENGTH: 2811
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-877-346-27

Query Match 62.3%; Score 33; DB 9; Length 2811;
Best Local Similarity 100.0%; Pred. No. 6.8e+02;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 5 YCYEQ 9
|:|
Db 2291 YCYEQ 2295

RESULT 43

US-10-877-346-25
; Sequence 25, Application US/10877346
; Publication No. US20060014153A1
; GENERAL INFORMATION:
; APPLICANT: Gerlach, Valerie L
; APPLICANT: MacDougall, John R
; APPLICANT: Smithson, Glenda
; APPLICANT: Millet, Isabelle
; APPLICANT: Stone, David
; APPLICANT: Gunther, Erik
; APPLICANT: Ellerman, Karen

US-10-877-346-27

```
APPLICANT: Grosse, William M
APPLICANT: Alsobrook II, John P
APPLICANT: Lepley, Denise M
APPLICANT: Burgess, Catherine E
APPLICANT: Padigaru, Muralidhara
APPLICANT: Kekuda, Ramesh
APPLICANT: Spytek, Kimberly A
APPLICANT: Leach, Martin D
APPLICANT: Shinkets, Richard A
TITLE OF INVENTION: Novel Proteins and Nucleic Acids Encoding Same
FILE REFERENCE: 21402-124
CURRENT APPLICATION NUMBER: US/10/877,346
PRIOR FILING DATE: 2004-06-25
PRIOR APPLICATION NUMBER: US/09/964,956
PRIOR FILING DATE: 2001-09-26
PRIOR APPLICATION NUMBER: 60/235,631
PRIOR FILING DATE: 2000-09-27
PRIOR APPLICATION NUMBER: 60/235,633
PRIOR FILING DATE: 2000-09-27
PRIOR APPLICATION NUMBER: 60/235,808
PRIOR FILING DATE: 2000-09-27
PRIOR APPLICATION NUMBER: 60/236,064
PRIOR FILING DATE: 2000-09-27
PRIOR APPLICATION NUMBER: 60/236,065
PRIOR FILING DATE: 2000-09-27
PRIOR APPLICATION NUMBER: 60/236,066
PRIOR FILING DATE: 2000-09-27
PRIOR APPLICATION NUMBER: 60/236,135
PRIOR FILING DATE: 2000-09-28
PRIOR APPLICATION NUMBER: 60/237,434
PRIOR FILING DATE: 2000-10-03
PRIOR APPLICATION NUMBER: 60/238,321
PRIOR FILING DATE: 2000-10-05
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 127
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 25
LENGTH: 2814
TYPE: PRT
ORGANISM: Homo sapiens
US-10-877-346-25

Query Match          62.3%; Score 33; DB 9; Length 2814;
Best Local Similarity 100.0%; Pred. No. 6.8e+02;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 5 YCYEQ 9
DB 2294 YCYEQ 2298

RESULT 44
US-10-505-928-449
Sequence 449, Application US/10505928
Publication No. US20060088532A1
GENERAL INFORMATION:
APPLICANT: Ludwig Institute for Cancer Research et al.
TITLE OF INVENTION: LYMPHATIC ENDOTHELIAL GENES
FILE REFERENCE: 28967/39178
CURRENT APPLICATION NUMBER: US/10/505,928
PRIOR FILING DATE: 2004-08-27
PRIOR APPLICATION NUMBER: US 60/363,019
PRIOR FILING DATE: 2002-03-07
NUMBER OF SEQ ID NOS: 866
SOFTWARE: PatentIn 3.2
SEQ ID NO 449
LENGTH: 3396
TYPE: PRT
ORGANISM: Homo sapiens
US-10-505-928-449

Query Match          62.3%; Score 33; DB 8; Length 3396;
Best Local Similarity 71.4%; Pred. No. 7.9e+02;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Matches 5; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
QY 1 TTDLYCY 7
DB 238 TYDVYCY 244

RESULT 45
US-11-183-261-39
Sequence 39, Application US/11183261
Publication No. US20060078913A1
GENERAL INFORMATION:
APPLICANT: Macina, Roberto
APPLICANT: Turner, Leah
APPLICANT: Vartanian, Scaffan
APPLICANT: Liu, Shu-Hui
APPLICANT: Rodriguez, Maria
APPLICANT: Chen, Hwei-Mei
TITLE OF INVENTION: COMPOSITIONS, SPLICE VARIANTS AND METHODS RELATING TO CANCER SPEC
FILE REFERENCE: DEX0463US (DEX-0558)
CURRENT APPLICATION NUMBER: US/11/183,261
PRIOR FILING DATE: 2005-07-15
PRIOR APPLICATION NUMBER: US 60/588,881
PRIOR FILING DATE: 2004-07-16
NUMBER OF SEQ ID NOS: 83
SOFTWARE: PatentIn version 3.1
SEQ ID NO 39
LENGTH: 3396
TYPE: PRT
ORGANISM: Homo sapien
US-11-183-261-39

Query Match          62.3%; Score 33; DB 11; Length 3396;
Best Local Similarity 71.4%; Pred. No. 7.9e+02;
Matches 5; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 TTDLYCY 7
DB 238 TYDVYCY 244

RESULT 46
US-11-045-004-1630
Sequence 1630, Application US/11045004
Publication No. US20060078901A1
GENERAL INFORMATION:
APPLICANT: BUCHRIESEN, CARMEN
APPLICANT: FRANGOULI, LIONEL
APPLICANT: COUVE, ELISABETH
APPLICANT: RUSNIOK, CHRISTOPHE
APPLICANT: FSIHI, HAFIDA
APPLICANT: DEHOUX, PIERRE
APPLICANT: DUSSETT, OLIVIER
APPLICANT: CHEYOUNI, FARID
APPLICANT: NEDARI, HAFED
APPLICANT: GLASER, PHILIPPE
APPLICANT: KUNST, FRANCK
APPLICANT: COSSAFT, PASCALE
APPLICANT: DANIELS, JUSTIN
APPLICANT: GOEBEL, WERNER
APPLICANT: KREFT, JURGEN
APPLICANT: KUHN, MICHAEL
APPLICANT: NG, EVA
APPLICANT: VAZQUEZ-BOLAND, ANTONIO
APPLICANT: DOMINGUEZ-BERNAL, GUSTAVO
APPLICANT: GARRIDO-GARCIA, PATRICIA
APPLICANT: TERRERZ-MARTINEZ, ALBERTO
APPLICANT: AMEND, ALEXANDRA
APPLICANT: CHARABORTY, TRINAD
APPLICANT: DOMANN, EUGEN
APPLICANT: HAIN, THORSTEN
APPLICANT: BERCHE, PATRICK
```

```

; APPLICANT: CHARBIT, ALAIN
; APPLICANT: DURANT, LIONEL
; APPLICANT: PEREZ-DIAZ, JOSE-CLAUDIO
; APPLICANT: BAQUERO, FERNANDO
; APPLICANT: GARCIA DEL PORTILLO, FRANCISCO
; APPLICANT: GOMEZ-LOPEZ, NURIA
; APPLICANT: MADUENIO, ENCARN
; APPLICANT: PABLOS, BETRIZ DE
; APPLICANT: WEHLAND, JURGEN
; APPLICANT: KARST, UWE
; APPLICANT: ENTIAN, KARL-DIETER
; APPLICANT: HAUF, JORG
; APPLICANT: ROSE, MATTHIAS
; APPLICANT: VOSS, HAMUT
; TITLE OF INVENTION: LISTERIA MONOCYTOGENES GENOME, POLYPEPTIDES AND USES
; FILE REFERENCE: 05394.0018-02
; CURRENT APPLICATION NUMBER: US/11/045,004
; CURRENT FILING DATE: 2005-01-28
; PRIOR APPLICATION NUMBER: 10/637,657
; PRIOR FILING DATE: 2003-08-11
; PRIOR APPLICATION NUMBER: 10/257,023
; PRIOR FILING DATE: 2002-10-08
; PRIOR APPLICATION NUMBER: PCT/FR01/01118
; PRIOR FILING DATE: 2001-04-11
; PRIOR APPLICATION NUMBER: FR 00/04,629
; PRIOR FILING DATE: 2000-04-11
; NUMBER OF SEQ ID NOS: 2854
; SOFTWARE: Patent version 3.3
; SEQ ID NO: 1630
; LENGTH: 179
; TYPE: PRT
; ORGANISM: Listeria monocytogenes
US-11-045-004-1630

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Query Match          60.4%; Score 32; DB 11; Length 179;
Best Local Similarity 66.7%; Pred. No. 1.1e+02;
Matches 6; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

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Qy      1 TTDLYCYEQ 9
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Db      152 TVSLYLYEQ 160

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RESULT 47
US-11-087-099-3676
; Sequence 3676; Application US/11087099
; Publication No. US20060041961A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: Genes and uses for plant improvement
; FILE REFERENCE: 38-21(53450)B EP
; CURRENT APPLICATION NUMBER: US/11/087,099
; CURRENT FILING DATE: 2005-03-22
; NUMBER OF SEQ ID NOS: 12464
; SEQ ID NO: 3676
; LENGTH: 329
; TYPE: PRT
; ORGANISM: Streptomyces avermitilis MA-4680
US-11-087-099-3676

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Query Match          60.4%; Score 32; DB 11; Length 329;
Best Local Similarity 100.0%; Pred. No. 1.8e+02;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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RESULT 48
US-11-188-298-11558
; Sequence 11558; Application US/11188298
; Publication No. US20060075522A1

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; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
; FILE REFERENCE: 38-21(53452)B
; CURRENT APPLICATION NUMBER: US/11/188,298
; CURRENT FILING DATE: 2005-07-22
; PRIOR APPLICATION NUMBER: 60/592,978
; PRIOR FILING DATE: 2004-07-31
; NUMBER OF SEQ ID NOS: 22569
; SEQ ID NO: 11558
; LENGTH: 341
; TYPE: PRT
; ORGANISM: GIBBERELLA ZEAE PH-1
US-11-188-298-11558

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Query Match          60.4%; Score 32; DB 11; Length 341;
Best Local Similarity 57.1%; Pred. No. 1.8e+02;
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Db      106 DLYCYNR 112

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RESULT 49
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; Sequence 2031; Application US/11045004
; Publication No. US20060078901A1
; GENERAL INFORMATION:
; APPLICANT: BUCHRISE, CARMEN
; APPLICANT: FRANGEL, LIONEL
; APPLICANT: COUVE, ELISABETH
; APPLICANT: RUSNIOK, CHRISTOPHE
; APPLICANT: PSYHI, HAIDA
; APPLICANT: DEHOUX, PIERRE
; APPLICANT: DUSURGET, OLIVIER
; APPLICANT: CHETOUANI, FARID
; APPLICANT: NEDJARI, HAFED
; APPLICANT: GLASER, PHILIPPE
; APPLICANT: KUNST, FRANCK
; APPLICANT: COSSART, PASCALE
; APPLICANT: DANIELS, JUSTIN
; APPLICANT: GOEBEL, WERNER
; APPLICANT: KREFT, JURGEN
; APPLICANT: KUHN, MICHAEL
; APPLICANT: NG, EVA
; APPLICANT: VAQUEZ-BOLAND, ANTONIO
; APPLICANT: DOMINGUEZ-BERNAL, GUSTAVO
; APPLICANT: GARRIDO-GARCIA, PATRICIA
; APPLICANT: TIERREZ-MARTINEZ, ALBERTO
; APPLICANT: AMEND, ALEXANDRA
; APPLICANT: CHAKRABORTY, TRINAD
; APPLICANT: DOMANN, EUGEN
; APPLICANT: HAIN, THORSTEN
; APPLICANT: BERCHE, PATRICK
; APPLICANT: CHARBIT, ALAIN
; APPLICANT: DURANT, LIONEL
; APPLICANT: PEREZ-DIAZ, JOSE-CLAUDIO
; APPLICANT: BAQUERO, FERNANDO
; APPLICANT: GARCIA DEL PORTILLO, FRANCISCO
; APPLICANT: GOMEZ-LOPEZ, NURIA
; APPLICANT: MADUENIO, ENCARN
; APPLICANT: PABLOS, BETRIZ DE
; APPLICANT: WEHLAND, JURGEN
; APPLICANT: KARST, UWE
; APPLICANT: ENTIAN, KARL-DIETER
; APPLICANT: HAUF, JORG
; APPLICANT: ROSE, MATTHIAS
; APPLICANT: VOSS, HAMUT
; TITLE OF INVENTION: LISTERIA MONOCYTOGENES GENOME, POLYPEPTIDES AND USES
; FILE REFERENCE: 05394.0018-02
; CURRENT APPLICATION NUMBER: US/11/045,004
; CURRENT FILING DATE: 2005-01-28

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PRIOR APPLICATION NUMBER: 10/637,657
PRIOR FILING DATE: 2003-08-11
PRIOR APPLICATION NUMBER: 10/257,023
PRIOR FILING DATE: 2002-10-08
PRIOR APPLICATION NUMBER: PCT/FR01/01118
PRIOR FILING DATE: 2001-04-11
PRIOR APPLICATION NUMBER: FR 00/04,629
PRIOR FILING DATE: 2000-04-11
NUMBER OF SEQ ID NOS: 2854
SOFTWARE: PatentIn version 3.3
SEQ ID NO 2031
LENGTH: 860
TYPE: PRT
ORGANISM: Listeria monocytogenes
US-11-045-004-2031

Query Match 60.4%; Score 32; DB 11; Length 860;
Best Local Similarity 100.0%; Pred. No. 3.8e+02;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 4 LKCYE 8
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Db 130 LKCYE 134

RESULT 50
US-10-495-083-9
Sequence 9, Application US/10495083
Publication No. US20060008600A1
GENERAL INFORMATION:
APPLICANT: Max-Planck-Gesellschaft zur Forderung der Wissenschaften e.V.
APPLICANT: ROSENMUND, Christian
APPLICANT: BROSE, Nils
APPLICANT: RHEE, Jeong-Seop
APPLICANT: BEITZ, Andrea
APPLICANT: RETTIG, Jens
APPLICANT: ASHERY, Uri
APPLICANT: JUNG, Harald
TITLE OF INVENTION: UNC-13 IN THE MODULATION OF NEUROTRANSMISSION AND SECRETION EVENT
FILE REFERENCE: 009848-0309442
CURRENT APPLICATION NUMBER: US/10/495,083
CURRENT FILING DATE: 2004-05-05
PRIOR APPLICATION NUMBER: PCT/EP02/12072
PRIOR FILING DATE: 2002-10-29
PRIOR APPLICATION NUMBER: EP 01 12 6235.9
PRIOR FILING DATE: 2001-11-05
NUMBER OF SEQ ID NOS: 12
SOFTWARE: PatentIn version 3.1
SEQ ID NO 9
LENGTH: 1752
TYPE: PRT
ORGANISM: Drosophila melanogaster
US-10-495-083-9

Query Match 60.4%; Score 32; DB 9; Length 1752;
Best Local Similarity 62.5%; Pred. No. 6.9e+02;
Matches 5; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

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Db 610 TSPYCYE 617

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Title: US-08-170-344-39
Perfect score: 47
Sequence: 1 BIDPACQA 9

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Total number of hits satisfying chosen parameters: 572060

Minimum DB seq length: 0
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Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 1000 summaries

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Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

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4	47	100.0	18	2	US-08-075-541D-9
5	47	100.0	20	2	US-08-075-541D-5
6	47	100.0	20	2	US-09-980-1177A-72
7	47	100.0	21	2	US-10-612-818-6
8	47	100.0	22	2	US-09-367-309A-6
9	47	100.0	25	1	US-08-363-585-2
10	47	100.0	30	2	US-09-486-394-2
11	47	100.0	38	2	US-09-501-097A-6
12	47	100.0	38	1	US-08-406-248-6
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16	47	100.0	98	2	US-09-820-764-4
17	47	100.0	98	2	US-09-613-303-8
18	47	100.0	98	2	US-09-566-420-19
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21	47	100.0	98	2	US-09-824-017-4
22	47	100.0	98	2	US-10-267-311-8
23	47	100.0	98	2	US-10-201-764-19
24	47	100.0	98	2	US-09-637-746-3
25	47	100.0	98	2	US-09-501-097A-7
26	47	100.0	98	2	US-09-980-523A-12
27	47	100.0	121	2	US-09-613-303-12

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30	47	100.0	172	2	US-08-860-165-14	Sequence 14, Appl
31	47	100.0	172	2	US-09-359-382-12	Sequence 12, Appl
32	47	100.0	172	2	US-09-359-382-14	Sequence 14, Appl
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34	47	100.0	198	2	US-09-613-303-35	Sequence 35, Appl
35	47	100.0	198	2	US-10-267-311-35	Sequence 1, Appl
36	47	100.0	220	2	US-09-485-885-1	Sequence 8, Appl
37	47	100.0	220	2	US-09-485-885-8	Sequence 12, Appl
38	47	100.0	239	2	US-09-485-885-12	Sequence 12, Appl
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54	47	100.0	390	2	US-09-485-885-14	Sequence 14, Appl
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56	47	100.0	493	2	US-09-613-303-19	Sequence 19, Appl
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67	47	100.0	711	2	US-10-267-311-41	Sequence 41, Appl
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69	47	100.0	724	2	US-09-613-303-45	Sequence 45, Appl
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72	47	89.4	20	1	US-08-934-915-154	Sequence 154, App
73	42	89.4	32	2	US-08-075-541D-37	Sequence 37, Appl
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75	36	76.6	129	2	US-09-270-767-60517	Sequence 45029, A
76	36	76.6	238	2	US-09-270-767-45029	Sequence 32, Appl
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79	35	74.5	557	2	US-09-252-991A-22465	Sequence 1262, Ap
80	34	72.3	148	2	US-09-605-703B-1262	Sequence 7558, Ap
81	34	72.3	194	2	US-09-489-039A-7558	Sequence 31, Appl
82	34	72.3	332	2	US-09-437-568A-23	Parent No. 5177197
83	34	72.3	410	6	5177197-1	Sequence 3, Appl
84	34	72.3	467	2	US-09-002-361-3	Sequence 2, Appl
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86	34	72.3	488	1	US-08-554-659-4	Sequence 2, Appl
87	34	72.3	496	2	US-09-002-361-2	Sequence 7227, Ap
88	34	72.3	538	2	US-09-949-016-7227	Sequence 2, Appl
89	34	72.3	564	2	US-09-437-568A-2	Sequence 14, Appl
90	34	72.3	564	2	US-09-999-248A-14	Sequence 20408, A
91	34	72.3	957	2	US-09-252-991A-20408	Sequence 8254, Ap
92	34	72.3	996	2	US-09-949-016-8254	Sequence 5971, Ap
93	34	72.3	1394	6	US-09-949-016-5971	Parent No. 5177197
94	34	72.3	1394	6	5177197-30	Sequence 20, Appl
95	34	72.3	1493	2	US-09-713-273A-20	Sequence 23568, A
96	34	72.3	3340	2	US-09-252-991A-23568	Sequence 628, App
97	33	70.2	31	2	US-09-205-258-628	Sequence 628, App
98	33	70.2	31	2	US-10-004-860-628	Sequence 627, App
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103	33	70.2	610	2	US-09-949-016-7510	Sequence 7510, Ap	176	31	66.0	374	2	US-09-442-349A-83	Sequence 83, Appl
104	33	70.2	611	2	US-09-252-991A-23379	Sequence 23379, A	177	31	66.0	374	2	US-09-442-349A-84	Sequence 84, Appl
105	32	68.1	9	2	US-10-365-908-24	Sequence 24, Appl	178	31	66.0	374	2	US-09-442-349A-85	Sequence 85, Appl
106	32	68.1	11	1	US-07-909-122-6	Sequence 71, Appl	179	31	66.0	374	2	US-09-442-349A-86	Sequence 86, Appl
107	32	68.1	20	2	US-09-980-177A-71	Sequence 71, Appl	180	31	66.0	374	2	US-09-442-349A-87	Sequence 87, Appl
108	32	68.1	62	2	US-09-513-999C-7695	Sequence 7695, Ap	181	31	66.0	374	2	US-09-442-349A-88	Sequence 88, Appl
109	32	68.1	63	2	US-09-513-999C-6628	Sequence 6628, Ap	182	31	66.0	374	2	US-09-442-349A-89	Sequence 89, Appl
110	32	68.1	68	2	US-09-270-767-57558	Sequence 57558, A	183	31	66.0	374	2	US-09-442-349A-90	Sequence 90, Appl
111	32	68.1	143	2	US-09-252-991A-19947	Sequence 19947, A	184	31	66.0	374	2	US-09-442-349A-91	Sequence 91, Appl
112	32	68.1	145	2	US-09-733-210-1331	Sequence 1331, Ap	185	31	66.0	374	2	US-09-442-349A-92	Sequence 92, Appl
113	32	68.1	157	2	US-09-252-991A-17954	Sequence 17954, A	186	31	66.0	376	2	US-09-387-418A-13	Sequence 13, Appl
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115	32	68.1	197	2	US-09-252-991A-26645	Sequence 26645, A	188	31	66.0	414	2	US-09-252-991A-31734	Sequence 11734, A
116	32	68.1	278	2	US-09-270-767-42276	Sequence 42276, A	189	31	66.0	419	2	US-09-248-796A-18588	Sequence 18588, A
117	32	68.1	284	2	US-09-522-714-24	Sequence 24, Appl	190	31	66.0	442	2	US-09-088-425-2	Sequence 2, Appl
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119	32	68.1	309	2	US-09-252-991A-22674	Sequence 22674, A	192	31	66.0	445	2	US-09-109-373-2	Sequence 2, Appl
120	32	68.1	311	2	US-09-949-016-8142	Sequence 8142, Ap	193	31	66.0	445	2	US-09-276-993-2	Sequence 2, Appl
121	32	68.1	319	2	US-09-534-229C-3	Sequence 3, Appl	194	31	66.0	445	2	US-09-723-450-2	Sequence 2, Appl
122	32	68.1	336	1	US-07-704-288C-3	Sequence 3, Appl	195	31	66.0	445	2	US-09-639-378A-2	Sequence 2, Appl
123	32	68.1	336	1	US-08-093-372-2	Sequence 2, Appl	196	31	66.0	447	2	US-09-489-039A-13368	Sequence 13368, A
124	32	68.1	336	1	US-08-379-259-3	Sequence 3, Appl	197	31	66.0	447	2	US-09-605-703B-958	Sequence 958, Ap
125	32	68.1	352	2	US-09-107-532A-6703	Sequence 6703, Ap	198	31	66.0	461	2	US-08-795-088A-2	Sequence 2, Appl
126	32	68.1	360	2	US-09-489-039A-1364	Sequence 1364, A	199	31	66.0	480	2	US-09-009-893A-2	Sequence 2, Appl
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131	32	68.1	475	1	US-07-686-591-4	Sequence 4, Appl	204	31	66.0	562	2	US-09-211-704A-4	Sequence 4, Appl
132	32	68.1	475	1	US-07-970-715-4	Sequence 4, Appl	205	31	66.0	563	2	US-09-211-704A-4	Sequence 4, Appl
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139	32	68.1	808	2	US-10-104-047-2654	Sequence 2654, Ap	212	31	66.0	712	1	US-08-852-091-6	Sequence 6, Appl
140	32	68.1	917	2	US-09-252-991A-25101	Sequence 25101, A	213	31	66.0	712	1	US-08-820-754-6	Sequence 6, Appl
141	32	68.1	973	2	US-09-252-991A-23944	Sequence 23944, A	214	31	66.0	712	2	US-08-956-652-6	Sequence 6, Appl
142	32	68.1	1554	2	US-09-252-991A-26814	Sequence 26814, A	215	31	66.0	712	2	US-08-956-669-6	Sequence 6, Appl
143	31	66.0	17	2	US-09-087-465-35	Sequence 35, Appl	216	31	66.0	712	2	US-08-948-547-6	Sequence 6, Appl
144	31	66.0	95	2	US-09-513-999C-7491	Sequence 7491, Ap	217	31	66.0	712	2	US-08-956-653A-6	Sequence 6, Appl
145	31	66.0	157	2	US-09-949-016-11270	Sequence 11270, A	218	31	66.0	712	2	US-08-212-185-6	Sequence 6, Appl
146	31	66.0	157	2	US-09-949-016-11271	Sequence 11271, A	219	31	66.0	712	2	US-09-430-806A-6	Sequence 6, Appl
147	31	66.0	180	2	US-10-166-653-10	Sequence 10, Appl	220	31	66.0	712	4	PCT-US95-17025-6	Sequence 9, Appl
148	31	66.0	181	2	US-09-902-540-14331	Sequence 14331, A	221	31	66.0	729	2	US-09-917-254-97	Sequence 12, Appl
149	31	66.0	220	2	US-09-311-021-150	Sequence 150, App	222	31	66.0	740	1	US-08-276-099A-12	Sequence 12, Appl
150	31	66.0	244	2	US-09-949-016-11405	Sequence 11405, A	223	31	66.0	750	1	US-08-369-796-6	Sequence 4, Appl
151	31	66.0	258	2	US-09-252-991A-28812	Sequence 28812, A	224	31	66.0	750	1	US-08-852-091-4	Sequence 4, Appl
152	31	66.0	263	2	US-09-252-991A-16966	Sequence 16966, A	225	31	66.0	750	1	US-08-852-091-4	Sequence 4, Appl
153	31	66.0	303	2	US-09-252-991A-17866	Sequence 27866, A	226	31	66.0	750	2	US-08-820-754-4	Sequence 4, Appl
154	31	66.0	348	2	US-09-009-893A-6	Sequence 6, Appl	227	31	66.0	750	2	US-08-956-652-4	Sequence 4, Appl
155	31	66.0	348	2	US-09-489-155-6	Sequence 6, Appl	228	31	66.0	750	2	US-08-956-669-4	Sequence 4, Appl
156	31	66.0	374	2	US-09-442-349A-4	Sequence 4, Appl	229	31	66.0	750	2	US-08-948-547-4	Sequence 4, Appl
157	31	66.0	374	2	US-09-442-349A-64	Sequence 64, Appl	230	31	66.0	750	2	US-09-087-465-2	Sequence 2, Appl
158	31	66.0	374	2	US-09-442-349A-65	Sequence 65, Appl	231	31	66.0	750	2	US-09-364-970-1	Sequence 1, Appl
159	31	66.0	374	2	US-09-442-349A-66	Sequence 66, Appl	232	31	66.0	750	2	US-09-442-349A-8	Sequence 8, Appl
160	31	66.0	374	2	US-09-442-349A-67	Sequence 67, Appl	233	31	66.0	750	2	US-08-956-653A-4	Sequence 4, Appl
161	31	66.0	374	2	US-09-442-349A-68	Sequence 68, Appl	234	31	66.0	750	2	US-09-972-800A-2	Sequence 2, Appl
162	31	66.0	374	2	US-09-442-349A-69	Sequence 69, Appl	235	31	66.0	750	2	US-08-212-185-4	Sequence 4, Appl
163	31	66.0	374	2	US-09-442-349A-70	Sequence 70, Appl	236	31	66.0	750	2	US-09-430-806A-1	Sequence 1, Appl
164	31	66.0	374	2	US-09-442-349A-71	Sequence 71, Appl	237	31	66.0	750	4	PCT-US95-17025-4	Sequence 4, Appl
165	31	66.0	374	2	US-09-442-349A-72	Sequence 72, Appl	238	31	66.0	767	2	US-09-949-016-8350	Sequence 8350, Ap
166	31	66.0	374	2	US-09-442-349A-73	Sequence 73, Appl	239	31	66.0	806	2	US-09-270-767-44869	Sequence 44869, A
167	31	66.0	374	2	US-09-442-349A-74	Sequence 74, Appl	240	31	66.0	1268	2	US-09-949-016-71487	Sequence 71487, Ap
168	31	66.0	374	2	US-09-442-349A-75	Sequence 75, Appl	241	31	66.0	1442	4	PCT-US95-02251-12	Sequence 12, Appl
169	31	66.0	374	2	US-09-442-349A-76	Sequence 76, Appl	242	31	66.0	1442	4	PCT-US95-02251-12	Sequence 12, Appl
170	31	66.0	374	2	US-09-442-349A-77	Sequence 77, Appl	243	31	66.0	1457	2	US-09-436-874-2	Sequence 2, Appl
171	31	66.0	374	2	US-09-442-349A-78	Sequence 78, Appl	244	31	66.0	1457	2	US-09-713-273A-18	Sequence 18, Appl
172	31	66.0	374	2	US-09-442-349A-79	Sequence 79, Appl	245	31	66.0	1482	2	US-09-410-551B-21	Sequence 21, Appl
173	31	66.0	374	2	US-09-442-349A-80	Sequence 80, Appl	246	31	66.0	1482	2	US-09-940-316B-21	Sequence 21, Appl

247	31	66.0	1488	2	US-09-410-551B-17	Sequence 17, Appl	320	30	63.8	678	1	US-08-435-436-2	Sequence 2, Appl1
248	31	66.0	1488	2	US-09-940-316B-17	Sequence 17, Appl	321	30	63.8	678	1	US-08-438-663-2	Sequence 2, Appl1
249	31	66.0	1509	2	US-09-410-551B-23	Sequence 23, Appl	322	30	63.8	678	1	US-08-438-864-2	Sequence 2, Appl1
250	31	66.0	1509	2	US-09-940-316B-23	Sequence 23, Appl	323	30	63.8	678	1	US-08-438-862-2	Sequence 2, Appl1
251	31	66.0	1517	2	US-09-410-551B-19	Sequence 19, Appl	324	30	63.8	678	2	US-08-628-747-2	Sequence 2, Appl1
252	31	66.0	1517	2	US-09-940-316B-19	Sequence 19, Appl	325	30	63.8	678	2	US-08-402-253-2	Sequence 2, Appl1
253	31	66.0	1896	2	US-09-964-956-13	Sequence 13, Appl	326	30	63.8	678	2	US-08-443-866B-2	Sequence 2, Appl1
254	31	66.0	1896	2	US-09-410-551B-72	Sequence 72, Appl	327	30	63.8	834	2	US-09-252-991A-17616	Sequence 17616, A
255	31	66.0	6396	2	US-09-940-316B-72	Sequence 72, Appl	328	30	63.8	857	2	US-09-902-540-13282	Sequence 13282, A
256	31	66.0	6396	2	US-09-410-551B-72	Sequence 72, Appl	329	30	63.8	1136	2	US-09-252-991A-31394	Sequence 31394, A
257	30	63.8	56	1	US-08-463-212-1	Sequence 1, Appl1	330	30	63.8	1197	2	US-09-902-540-10968	Sequence 10968, A
258	30	63.8	56	1	US-08-463-211-1	Sequence 1, Appl1	331	30	63.8	1197	2	US-09-252-991A-30833	Sequence 30833, A
259	30	63.8	112	2	US-09-270-767-38585	Sequence 38585, A	332	30	63.8	1197	2	US-09-252-991A-31826	Sequence 31826, A
260	30	63.8	112	2	US-09-270-767-53802	Sequence 53802, A	333	30	63.8	766	2	US-08-802-991A-172	Sequence 172, App
261	30	63.8	115	2	US-09-252-991A-28774	Sequence 28774, A	334	29	61.7	25	2	US-09-517-866-3	Sequence 3, Appl1
262	30	63.8	145	2	US-09-893-737-148	Sequence 148, App	335	29	61.7	25	2	US-09-252-656B-61	Sequence 61, Appl
263	30	63.8	188	2	US-09-252-991A-11228	Sequence 31228, A	336	29	61.7	34	2	US-09-621-976-7284	Sequence 7284, Ap
264	30	63.8	194	2	US-10-104-047-3410	Sequence 3410, Ap	337	29	61.7	55	2	US-09-513-999C-7256	Sequence 7256, Ap
265	30	63.8	220	2	US-09-605-703B-2600	Sequence 2600, Ap	338	29	61.7	55	2	US-09-513-999C-7256	Sequence 26291, A
266	30	63.8	220	2	US-09-198-452A-507	Sequence 607, App	339	29	61.7	72	2	US-09-248-796A-26291	Sequence 13730, A
267	30	63.8	220	2	US-09-438-185A-570	Sequence 570, App	340	29	61.7	81	2	US-09-902-540-13730	Sequence 12442, A
268	30	63.8	238	2	US-09-328-352-7630	Sequence 7630, Ap	341	29	61.7	89	2	US-09-489-039A-12442	Sequence 11666, A
269	30	63.8	263	2	US-09-159-106-2	Sequence 2, Appl1	342	29	61.7	92	2	US-09-489-039A-11666	Sequence 56114, A
270	30	63.8	264	2	US-09-252-991A-27698	Sequence 27698, A	343	29	61.7	95	2	US-09-270-767-56414	Sequence 56114, A
271	30	63.8	272	2	US-09-252-991A-29301	Sequence 29301, A	344	29	61.7	101	2	US-09-489-039A-12049	Sequence 12049, A
272	30	63.8	295	2	US-09-602-777A-416	Sequence 416, App	345	29	61.7	115	2	US-08-513-974B-38	Sequence 38, Appl
273	30	63.8	303	2	US-09-159-106-13	Sequence 13, Appl	346	29	61.7	115	2	US-09-461-436B-38	Sequence 325, App
274	30	63.8	306	1	US-08-824-707-2	Sequence 2, Appl1	347	29	61.7	115	2	US-08-513-974B-325	Sequence 326, App
275	30	63.8	306	2	US-09-252-991A-23829	Sequence 23829, A	348	29	61.7	132	2	US-08-513-974B-326	Sequence 3101, A
276	30	63.8	311	2	US-09-878-781-18	Sequence 18, Appl	349	29	61.7	132	2	US-09-270-767-61101	Sequence 28, Appl
277	30	63.8	311	2	US-09-252-991A-28769	Sequence 28769, A	350	29	61.7	132	2	US-10-830-792A-28	Sequence 12955, A
278	30	63.8	332	2	US-09-320-878-16	Sequence 16, Appl	351	29	61.7	138	2	US-09-489-039A-12955	Sequence 4215, Ap
279	30	63.8	332	2	US-09-141-908-20	Sequence 20, Appl	352	29	61.7	141	2	US-09-732-210-327	Sequence 327, App
280	30	63.8	332	2	US-09-657-440-16	Sequence 16, Appl	353	29	61.7	145	2	US-09-732-210-83	Sequence 83, Appl
281	30	63.8	332	2	US-09-793-708-16	Sequence 16, Appl	354	29	61.7	147	2	US-09-732-210-118	Sequence 118, App
282	30	63.8	335	2	US-09-252-991A-24613	Sequence 24613, A	355	29	61.7	150	2	US-09-732-210-118	Sequence 1674, Ap
283	30	63.8	335	2	US-09-949-016-6163	Sequence 6163, Ap	356	29	61.7	150	2	US-09-732-210-1674	Sequence 1672, Ap
284	30	63.8	342	2	US-09-252-991A-32412	Sequence 32412, A	357	29	61.7	151	2	US-09-732-210-1772	Sequence 33104, A
285	30	63.8	360	2	US-09-949-016-8354	Sequence 8354, Ap	358	29	61.7	153	2	US-09-621-976-4060	Sequence 4060, Ap
286	30	63.8	360	2	US-09-252-991A-21572	Sequence 21572, A	359	29	61.7	155	2	US-09-252-991A-33104	Sequence 24, Appl
287	30	63.8	389	2	US-09-252-991A-31328	Sequence 31328, A	360	29	61.7	156	2	US-10-830-792A-24	Sequence 3106, Ap
288	30	63.8	389	2	US-09-252-991A-28379	Sequence 28379, A	361	29	61.7	160	2	US-10-104-047-3106	Sequence 7, Appl1
289	30	63.8	402	1	US-08-403-852D-19	Sequence 19, Appl	362	29	61.7	180	1	US-08-791-495-7	Sequence 9, Appl1
290	30	63.8	402	1	US-08-510-646B-20	Sequence 20, Appl	363	29	61.7	180	1	US-08-791-495-9	Sequence 8, Appl1
291	30	63.8	402	2	US-09-231-818-19	Sequence 19, Appl	364	29	61.7	180	2	US-08-937-263B-8	Sequence 8, Appl1
292	30	63.8	402	2	US-09-635-359B-19	Sequence 19, Appl	365	29	61.7	180	2	US-09-751-798-8	Sequence 15, Appl
293	30	63.8	407	2	US-08-955-957A-2	Sequence 2, Appl1	366	29	61.7	180	2	US-09-392-714-25	Sequence 7, Appl1
294	30	63.8	414	2	US-09-252-991A-29160	Sequence 29160, A	367	29	61.7	180	2	US-09-165-546D-15	Sequence 30, Appl
295	30	63.8	424	2	US-09-252-991A-30209	Sequence 30209, A	368	29	61.7	180	2	US-09-341-828A-9	Sequence 31347, A
296	30	63.8	425	2	US-09-252-991A-32805	Sequence 32805, A	369	29	61.7	180	2	US-09-849-602-30	Sequence 30, Appl
297	30	63.8	434	2	US-09-252-991A-29256	Sequence 29256, A	370	29	61.7	180	2	US-09-341-828A-9	Sequence 30, Appl
298	30	63.8	435	2	US-09-159-106-11	Sequence 11, Appl	371	29	61.7	180	2	US-09-849-602-30	Sequence 30, Appl
299	30	63.8	443	2	US-10-113-709A-2	Sequence 2, Appl1	372	29	61.7	186	2	US-09-252-991A-11347	Sequence 31347, A
300	30	63.8	450	2	US-09-252-991A-16659	Sequence 16659, A	373	29	61.7	186	2	US-09-366-009-6	Sequence 6, Appl1
301	30	63.8	475	2	US-09-252-991A-22247	Sequence 22247, A	374	29	61.7	186	2	US-08-809-158B-6	Sequence 24622, A
302	30	63.8	492	2	US-09-252-991A-23619	Sequence 23619, A	375	29	61.7	186	2	US-09-252-991A-24462	Sequence 18978, A
303	30	63.8	496	2	US-09-252-991A-26668	Sequence 26668, A	376	29	61.7	186	2	US-09-773-964-6	Sequence 23132, A
304	30	63.8	524	2	US-09-489-039A-10028	Sequence 10028, A	377	29	61.7	197	2	US-09-252-991A-18978	Sequence 39, Appl
305	30	63.8	524	2	US-09-489-039A-10028	Sequence 10028, A	378	29	61.7	208	2	US-09-027-287-39	Sequence 39, Appl
306	30	63.8	618	2	US-09-252-991A-22959	Sequence 22959, A	379	29	61.7	208	2	US-09-252-991A-23122	Sequence 39, Appl
307	30	63.8	619	2	US-09-800-065-2	Sequence 2, Appl1	380	29	61.7	208	2	US-09-523-323-39	Sequence 39, Appl
308	30	63.8	672	2	US-09-902-540-16342	Sequence 16342, A	381	29	61.7	208	2	US-09-523-323-39	Sequence 39, Appl
309	30	63.8	673	1	US-08-282-141-3	Sequence 3, Appl1	382	29	61.7	210	2	US-08-791-495-5	Sequence 5, Appl1
310	30	63.8	673	1	US-08-435-434-1	Sequence 1, Appl1	383	29	61.7	210	2	US-09-341-828A-5	Sequence 5, Appl1
311	30	63.8	673	1	US-08-435-436-1	Sequence 1, Appl1	384	29	61.7	210	2	US-09-252-991A-33077	Sequence 33077, A
312	30	63.8	673	1	US-08-438-863-1	Sequence 1, Appl1	385	29	61.7	219	2	US-09-252-991A-25865	Sequence 25865, A
313	30	63.8	673	1	US-08-438-864-1	Sequence 1, Appl1	386	29	61.7	220	2	US-09-252-991A-18985	Sequence 18985, A
314	30	63.8	673	2	US-08-438-862-1	Sequence 1, Appl1	387	29	61.7	223	1	US-07-956-848A-41	Sequence 41, Appl
315	30	63.8	673	2	US-08-628-747-1	Sequence 1, Appl1	388	29	61.7	223	1	US-08-471-956-41	Sequence 41, Appl
316	30	63.8	673	2	US-08-402-253-1	Sequence 1, Appl1	389	29	61.7	227	2	US-09-489-039A-7230	Sequence 7230, Ap
317	30	63.8	678	1	US-08-443-866B-1	Sequence 1, Appl1	390	29	61.7	229	2	US-09-902-540-15416	Sequence 15416, A
318	30	63.8	678	1	US-08-282-141-2	Sequence 2, Appl1	391	29	61.7	235	1	US-08-557-146-14	Sequence 14, Appl
319	30	63.8	678	1	US-08-435-434-2	Sequence 2, Appl1	392	29	61.7	235	1	US-09-154-344-14	Sequence 14, Appl

393	29	61.7	235	2	US-08-944-4693-42	Sequence 42, Appl	466	29	61.7	415	2	US-10-268-919-4	Sequence 4, Appl1
394	29	61.7	237	2	US-09-543-681A-5265	Sequence 5265, Ap	467	29	61.7	422	1	US-08-403-852D-17	Sequence 17, Appl
395	29	61.7	240	2	US-08-913-014A-1	Sequence 1, Appl1	468	29	61.7	422	2	US-08-510-646B-18	Sequence 18, Appl
396	29	61.7	240	2	US-09-072-993C-4	Sequence 4, Appl1	469	29	61.7	422	2	US-09-231-818-17	Sequence 17, Appl
397	29	61.7	240	2	US-09-027-287-2	Sequence 2, Appl1	470	29	61.7	422	2	US-09-635-359B-17	Sequence 17, Appl
398	29	61.7	240	2	US-09-252-656B-2	Sequence 2, Appl1	471	29	61.7	426	2	US-09-605-703B-2730	Sequence 2730, Ap
399	29	61.7	240	2	US-09-653-285-1	Sequence 1, Appl1	472	29	61.7	431	2	US-09-902-540-14251	Sequence 14251, A
400	29	61.7	240	2	US-09-523-333-2	Sequence 2, Appl1	473	29	61.7	432	2	US-09-248-796A-18913	Sequence 18913, A
401	29	61.7	244	2	US-09-134-000C-5267	Sequence 5267, Ap	474	29	61.7	433	2	US-09-252-991A-30647	Sequence 30647, A
402	29	61.7	245	2	US-09-252-991A-44604	Sequence 24604, A	475	29	61.7	434	2	US-08-444-644-23	Sequence 23, Appl
403	29	61.7	247	2	US-09-976-594-781	Sequence 781, App	476	29	61.7	434	2	US-08-444-644-31	Sequence 31, Appl
404	29	61.7	247	2	US-09-919-039-309	Sequence 309, App	477	29	61.7	434	2	US-08-444-644-40	Sequence 40, Appl
405	29	61.7	247	2	US-09-248-796A-22771	Sequence 22771, A	478	29	61.7	434	2	US-08-444-644-46	Sequence 46, Appl
406	29	61.7	249	2	US-09-345-468-9	Sequence 9, Appl1	479	29	61.7	434	2	US-08-232-246A-23	Sequence 23, Appl
407	29	61.7	249	2	US-09-414-453A-9	Sequence 9, Appl1	480	29	61.7	434	2	US-08-232-246A-31	Sequence 31, Appl
408	29	61.7	254	2	US-09-252-991A-33311	Sequence 23311, A	481	29	61.7	434	2	US-08-232-246A-40	Sequence 40, Appl
409	29	61.7	255	1	US-08-208-007A-14	Sequence 14, Appl	482	29	61.7	434	2	US-08-232-246A-46	Sequence 46, Appl
410	29	61.7	255	2	US-08-915-095A-14	Sequence 14, Appl	483	29	61.7	434	2	US-09-252-991A-19688	Sequence 19688, A
411	29	61.7	255	2	US-08-798-096-14	Sequence 14, Appl	484	29	61.7	434	2	US-09-252-991A-31828	Sequence 31828, A
412	29	61.7	255	2	US-08-798-095A-14	Sequence 14, Appl	485	29	61.7	438	2	US-09-252-991A-31319	Sequence 31319, A
413	29	61.7	255	2	US-09-953-956-14	Sequence 14, Appl	486	29	61.7	446	1	US-08-836-854-15	Sequence 15, Appl
414	29	61.7	255	2	US-08-553-125A-14	Sequence 14, Appl	487	29	61.7	453	2	US-08-252-991A-20514	Sequence 20514, A
415	29	61.7	255	2	US-10-114-464-14	Sequence 14, Appl	488	29	61.7	456	1	US-08-709-979A-1	Sequence 1, Appl1
416	29	61.7	257	2	US-09-949-016-10662	Sequence 10662, A	489	29	61.7	456	2	US-08-709-979A-11	Sequence 11, Appl
417	29	61.7	258	2	US-09-489-039A-12052	Sequence 12052, A	490	29	61.7	459	2	US-09-252-991A-25839	Sequence 25839, A
418	29	61.7	263	2	US-09-902-540-14698	Sequence 31863, A	491	29	61.7	462	2	US-09-252-991A-31372	Sequence 31372, A
419	29	61.7	263	2	US-09-902-540-14698	Sequence 14698, A	492	29	61.7	464	1	US-08-836-854-19	Sequence 19, Appl
420	29	61.7	268	2	US-09-252-991A-22342	Sequence 22342, A	493	29	61.7	464	2	US-09-366-009-7	Sequence 7, Appl1
421	29	61.7	268	2	US-10-198-053-485	Sequence 485, App	494	29	61.7	464	2	US-08-809-156B-7	Sequence 7, Appl1
422	29	61.7	271	2	US-09-522-714-22	Sequence 22, Appl	495	29	61.7	464	2	US-09-775-964-7	Sequence 7, Appl1
423	29	61.7	274	2	US-09-252-991A-19575	Sequence 19575, A	496	29	61.7	489	2	US-09-366-009-8	Sequence 8, Appl1
424	29	61.7	274	2	US-09-252-991A-20749	Sequence 20749, A	497	29	61.7	489	2	US-08-809-156B-8	Sequence 8, Appl1
425	29	61.7	288	2	US-09-949-016-8869	Sequence 8869, Ap	498	29	61.7	489	1	US-09-775-964-8	Sequence 8, Appl1
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427	29	61.7	288	2	US-09-949-002-469	Sequence 469, App	500	29	61.7	490	2	US-09-138-614-25	Sequence 25, Appl
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435	29	61.7	315	1	US-09-565-910-3	Sequence 3, Appl1	508	29	61.7	516	2	US-09-389-528-29	Sequence 29, Appl
436	29	61.7	316	1	US-07-828-980A-2	Sequence 2, Appl1	509	29	61.7	516	2	US-09-181-827A-29	Sequence 29, Appl
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438	29	61.7	319	2	US-09-345-468-5	Sequence 5, Appl1	511	29	61.7	517	2	US-09-389-528-33	Sequence 33, Appl
439	29	61.7	319	2	US-09-414-453A-5	Sequence 5, Appl1	512	29	61.7	517	2	US-09-181-827A-33	Sequence 33, Appl
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447	29	61.7	330	2	US-09-252-991A-18708	Sequence 18708, A	520	29	61.7	538	2	US-09-949-002-566	Sequence 566, App
448	29	61.7	330	2	US-09-345-468-3	Sequence 3, Appl1	521	29	61.7	538	2	US-09-949-002-567	Sequence 567, App
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451	29	61.7	346	1	US-08-914-848-24	Sequence 24, Appl	524	29	61.7	551	2	US-09-347-650-4	Sequence 4, Appl1
452	29	61.7	367	2	US-09-252-991A-29115	Sequence 29115, A	525	29	61.7	551	2	US-09-437-568A-4	Sequence 4, Appl1
453	29	61.7	370	2	US-09-252-991A-29473	Sequence 29473, A	526	29	61.7	551	2	US-10-418-036-6	Sequence 6, Appl1
454	29	61.7	387	2	US-08-689-421-23	Sequence 23, Appl	527	29	61.7	553	2	US-09-437-568A-12	Sequence 12, Appl
455	29	61.7	387	2	US-09-389-528-23	Sequence 23, Appl	528	29	61.7	553	2	US-09-040-444-2	Sequence 2, Appl1
456	29	61.7	387	2	US-09-181-827A-23	Sequence 23, Appl	529	29	61.7	555	2	US-08-501-572-2	Sequence 2, Appl1
457	29	61.7	390	2	US-08-689-421-21	Sequence 21, Appl	530	29	61.7	555	2	US-09-501-572-3	Sequence 3, Appl1
458	29	61.7	390	2	US-09-389-528-21	Sequence 21, Appl	531	29	61.7	555	2	US-09-040-444-3	Sequence 3, Appl1
459	29	61.7	390	2	US-09-181-827A-21	Sequence 21, Appl	532	29	61.7	568	2	US-09-347-650-4	Sequence 4, Appl1
460	29	61.7	392	2	US-09-252-991A-17743	Sequence 17743, A	533	29	61.7	568	2	US-10-418-036-6	Sequence 6, Appl1
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464	29	61.7	410	2	US-09-489-039A-9635	Sequence 9635, Ap	537	29	61.7	570	2	US-09-437-568A-37	Sequence 37, Appl
465	29	61.7	415	2	US-09-252-991A-27669	Sequence 27669, A	538	29	61.7	570	2	US-09-437-568A-38	Sequence 38, Appl

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540	29	61.7	580	2	US-09-949-016-11716	Sequence 11716, A	613	29	61.7	1771	2	US-09-949-002-492	Sequence 492, App
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543	29	61.7	580	2	US-09-949-002-570	Sequence 570, App	616	29	61.7	4551	2	US-09-141-908-2	Sequence 2, Appli
544	29	61.7	617	2	US-09-817-676A-15	Sequence 12, Appl	617	29	61.7	4551	2	US-09-657-440-1	Sequence 1, Appli
545	29	61.7	619	2	US-09-248-796A-15693	Sequence 15693, A	618	29	61.7	4551	2	US-09-793-708-1	Sequence 11, Appl
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549	29	61.7	660	2	US-09-902-540-14368	Sequence 14368, A	622	28	59.6	16	2	US-08-802-981A-53	Sequence 63, Appl
550	29	61.7	680	2	US-09-489-039A-8422	Sequence 8422, Ap	623	28	59.6	16	2	US-08-802-981A-53	Sequence 47, Appl
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552	29	61.7	709	2	US-09-107-532A-6920	Sequence 6920, Ap	625	28	59.6	16	2	US-09-747-287A-226	Sequence 241, App
553	29	61.7	721	2	US-09-134-078-19	Sequence 19, Appli	626	28	59.6	16	2	US-09-747-287A-241	Sequence 12, Appl
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555	29	61.7	732	2	US-09-815-048-4	Sequence 4, Appli	628	28	59.6	16	2	US-09-394-019C-180	Sequence 180, App
556	29	61.7	752	2	US-09-712-363-252	Sequence 252, App	629	28	59.6	16	2	US-09-394-019C-290	Sequence 290, App
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563	29	61.7	808	2	US-09-270-767-36557	Sequence 36557, A	636	28	59.6	77	2	US-09-270-767-31986	Sequence 47203, A
564	29	61.7	808	2	US-09-270-767-51774	Sequence 51774, A	637	28	59.6	79	2	US-09-270-767-47203	Sequence 344, App
565	29	61.7	814	2	US-09-252-991A-31520	Sequence 31520, A	638	28	59.6	83	2	US-09-674-973A-343	Sequence 343, App
566	29	61.7	817	2	US-09-252-991A-25598	Sequence 25598, A	639	28	59.6	84	2	US-09-674-973A-343	Sequence 22, Appl
567	29	61.7	822	1	US-08-939-002A-16	Sequence 16, Appl	640	28	59.6	90	2	US-10-830-792A-22	Sequence 348, App
568	29	61.7	822	2	US-09-219-849-49	Sequence 49, Appl	641	28	59.6	92	2	US-09-163-748C-8	Sequence 347, App
569	29	61.7	863	2	US-09-252-991A-21831	Sequence 21831, A	642	28	59.6	95	2	US-09-674-973A-348	Sequence 3587, App
570	29	61.7	954	2	US-09-403-618A-8	Sequence 8, Appli	643	28	59.6	96	2	US-09-134-000C-5587	Sequence 4910, Ap
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572	29	61.7	962	2	US-09-731-166-2	Sequence 2, Appli	645	28	59.6	101	2	US-09-163-748C-8	Sequence 27, Appli
573	29	61.7	986	2	US-09-403-618A-5	Sequence 5, Appli	646	28	59.6	116	2	US-09-782-748C-7	Sequence 1461, A
574	29	61.7	1012	1	US-08-680-326-34	Sequence 34, Appl	647	28	59.6	116	2	US-09-163-748C-8	Sequence 1461, A
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577	29	61.7	1046	2	US-09-252-991A-16902	Sequence 16902, A	650	28	59.6	117	2	US-09-782-745-31	Sequence 28, Appl
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586	29	61.7	1107	2	US-10-104-889-11	Sequence 11, Appl	659	28	59.6	130	2	US-10-104-047-2065	Sequence 2065, Ap
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588	29	61.7	1169	2	US-10-104-889-6	Sequence 6, Appli	661	28	59.6	133	2	US-09-621-976-4123	Sequence 4139, Ap
589	29	61.7	1171	2	US-10-153-469A-8	Sequence 8, Appli	662	28	59.6	135	2	US-10-830-792A-11	Sequence 11, Appl
590	29	61.7	1171	2	US-10-104-889-8	Sequence 8, Appli	663	28	59.6	135	2	US-10-137-077-8	Sequence 8, Appli
591	29	61.7	1260	2	US-09-328-352-6746	Sequence 6746, Ap	664	28	59.6	135	2	US-09-732-210-307	Sequence 307, App
592	29	61.7	1341	2	US-08-963-825-18	Sequence 18, Appl	665	28	59.6	137	2	US-09-732-210-309	Sequence 309, App
593	29	61.7	1341	2	US-09-500-811-18	Sequence 18, Appl	666	28	59.6	137	2	US-09-732-210-309	Sequence 309, App
594	29	61.7	1341	2	US-09-570-573-18	Sequence 18, Appl	667	28	59.6	137	2	US-09-732-210-309	Sequence 309, App
595	29	61.7	1341	2	US-09-548-608-18	Sequence 18, Appl	668	28	59.6	138	2	US-09-782-745-26	Sequence 26, Appl
596	29	61.7	1388	2	US-10-153-469A-10	Sequence 10, Appl	669	28	59.6	146	2	US-09-543-681A-8184	Sequence 8184, Ap
597	29	61.7	1388	2	US-10-104-889-10	Sequence 10, Appl	670	28	59.6	150	2	US-10-830-792A-1	Sequence 1, Appli
598	29	61.7	1391	2	US-10-080-505-11	Sequence 11, Appl	671	28	59.6	150	2	US-10-830-792A-10	Sequence 10, Appl
599	29	61.7	1391	2	US-10-080-505-15	Sequence 15, Appl	672	28	59.6	154	2	US-10-104-047-2037	Sequence 2037, Ap
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604	29	61.7	1495	2	US-09-543-681A-5986	Sequence 5986, Ap	677	28	59.6	161	2	US-09-252-991A-32112	Sequence 32112, A
605	29	61.7	1515	2	US-09-328-352-6100	Sequence 6100, Ap	678	28	59.6	164	2	US-09-252-991A-18741	Sequence 18741, A
606	29	61.7	1646	2	US-09-902-540-15011	Sequence 15011, A	679	28	59.6	168	2	US-09-252-991A-18199	Sequence 18199, A
607	29	61.7	1670	2	US-09-949-016-5883	Sequence 5883, Ap	680	28	59.6	170	2	US-09-270-767-45561	Sequence 45561, A
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610	29	61.7	1745	2	US-09-795-061-4	Sequence 4, Appli	683	28	59.6	174	2	US-10-830-792A-33	Sequence 33, Appl
611	29	61.7	1745	2	US-09-949-002-405	Sequence 405, App	684	28	59.6	176	2	US-08-469-260A-51	Sequence 51, Appl

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686	28	59.6	176	2	US-08-467-344A-51	Sequence 51, Appl	759	28	59.6	324	2	US-10-156-300-2	Sequence 4, Appl
687	28	59.6	176	2	US-08-424-550B-51	Sequence 51, Appl	760	28	59.6	324	2	US-09-950-739-A	Sequence 4, Appl
688	28	59.6	177	2	US-08-248-796A-14755	Sequence 14725, A	761	28	59.6	325	2	US-09-252-991A-30559	Sequence 30559, A
689	28	59.6	181	2	US-09-252-991A-23315	Sequence 23315, A	762	28	59.6	325	2	US-09-949-016-6188	Sequence 6188, Ap
690	28	59.6	183	2	US-10-166-653-8	Sequence 8, Appl	763	28	59.6	326	2	US-09-252-991A-24461	Sequence 24461, A
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695	28	59.6	192	2	US-09-252-991A-22817	Sequence 22817, A	768	28	59.6	333	2	US-09-220-637-30	Sequence 30, Appl
696	28	59.6	193	2	US-09-489-039A-8716	Sequence 8716, Ap	769	28	59.6	335	2	US-09-252-991A-16882	Sequence 16882, A
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702	28	59.6	214	2	US-09-252-991A-30918	Sequence 30918, A	775	28	59.6	350	2	US-08-913-616C-11	Sequence 11, Appl
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704	28	59.6	218	2	US-09-252-991A-26852	Sequence 26852, A	777	28	59.6	351	2	US-08-984-618-15	Sequence 15, Appl
705	28	59.6	222	2	US-09-605-703B-1538	Sequence 1538, Ap	778	28	59.6	351	2	US-09-029-156-1	Sequence 1, Appl
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TITLE OF INVENTION: Uses
NUMBER OF SEQUENCES: 1254
CORRESPONDENCE ADDRESSES:
ADDRESSEE: Townsend and Townsend and Crew LLP
STREET: Two Embarcadero Center, Eighth Floor
CITY: San Francisco
STATE: CA
COUNTRY: USA
ZIP: 94111-3834
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSeq for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/159,339A
FILING DATE: 29-NOV-1993
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/926,666
FILING DATE: 07-AUG-1992
APPLICATION NUMBER: US 08/027,746
FILING DATE: 05-MAR-1993
APPLICATION NUMBER: US 08/103,396
FILING DATE: 06-AUG-1993
ATTORNEY/AGENT INFORMATION:
NAME: Weber, Ellen Lauver
REGISTRATION NUMBER: 32,762
REFERENCE/DOCKET NUMBER: 018623-005030US
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 576-0200
TELEFAX: (415) 576-0300
TELEX:
INFORMATION FOR SEQ ID NO: 214:

SEQUENCE CHARACTERISTICS:
LENGTH: 9 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-08-159-339A-214

Query Match 100.0%; Score 47; DB 2; Length 9;
Best Local Similarity 100.0%; Pred. No. 4.6e+05;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Cy 1 EIDGPAGQA 9
Db 1 EIDGPAGQA 9

RESULT 2
US-10-365-908-19
Sequence 19, Application US/10365908
Patent No. 6797491
GENERAL INFORMATION:
APPLICANT: Neeffe, John R.
APPLICANT: Boux, Leslie J.
APPLICANT: Winnett, Mark T.
APPLICANT: Goldstone, Stephen E.
APPLICANT: Siegel, Marvin
TITLE OF INVENTION: HUMAN PAPILLOMA VIRUS TREATMENT
FILE REFERENCE: 12071-003001
CURRENT APPLICATION NUMBER: US/10/365,908
CURRENT FILING DATE: 2003-02-13
PRIOR APPLICATION NUMBER: US/09/891,823
PRIOR FILING DATE: 2001-10-19
PRIOR APPLICATION NUMBER: US 60/214,202
PRIOR FILING DATE: 2000-06-26
NUMBER OF SEQ ID NOS: 140
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 19
LENGTH: 10
TYPE: PRT
ORGANISM: Human papilloma virus
US-10-365-908-19

Query Match 100.0%; Score 47; DB 2; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.014;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Cy 1 EIDGPAGQA 9
Db 2 EIDGPAGQA 10

RESULT 3
US-08-075-541D-54
Sequence 54, Application US/08075541D
Patent No. 6183745
GENERAL INFORMATION:
APPLICANT: TINDLE, ROBERT
APPLICANT: FERNANDO, GERMAIN
APPLICANT: FRAZER, IAN
TITLE OF INVENTION: SUBUNIT PAPILLOMA VIRUS VACCINE AND
TITLE OF INVENTION: PEPTIDES FOR USE THEREIN
NUMBER OF SEQUENCES: 56
CORRESPONDENCE ADDRESSES:
ADDRESSEE: PANITCH SCHWARZ JACOBS & NDELL, P.C.
STREET: 1601 MARKET STREET, 36TH FLOOR
CITY: PHILADELPHIA
STATE: PENNSYLVANIA
COUNTRY: USA
ZIP: 19103-2398
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/075,541D
FILING DATE: 10-JUN-1993
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: AU pk 3876
FILING DATE: 12-DEC-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: pct/au91/00575
FILING DATE: 12-DEC-1991
ATTORNEY/AGENT INFORMATION:
NAME: NADEL, ALAN S
REGISTRATION NUMBER: 27,363
REFERENCE/DOCKET NUMBER: 8795-4
TELECOMMUNICATION INFORMATION:
TELEPHONE: 215-567-2020
TELEFAX: 215-567-2991
INFORMATION FOR SEQ ID NO: 54:
SEQUENCE CHARACTERISTICS:
LENGTH: 17 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-08-075-541D-54

Query Match 100.0%; Score 47; DB 2; Length 17;
Best Local Similarity 100.0%; Pred. No. 0.025;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 BIDGPAGOA 9
Db 2 BIDGPAGOA 10

RESULT 4

US-08-075-541D-9
Sequence 9, Application US/08075541D
Patent No. 6183745
GENERAL INFORMATION:
APPLICANT: TINDLE, ROBERT
APPLICANT: FERNANDO, GERMAIN
APPLICANT: FRAZER, IAN
TITLE OF INVENTION: SUBUNIT PAPILLOMA VIRUS VACCINE AND
TITLE OF INVENTION: PEPTIDES FOR USE THEREIN
NUMBER OF SEQUENCES: 56
CORRESPONDENCE ADDRESS:
ADDRESSEE: PANITCH SCHWARZE JACOBS & NADEL, P.C.
STREET: 1601 MARKET STREET, 36TH FLOOR
CITY: PHILADELPHIA
STATE: PENNSYLVANIA
COUNTRY: USA
ZIP: 19103-2398
COMPUTER READABLE FORM:
MEDIUM TYPE: floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/075,541D
FILING DATE: 10-JUN-1993
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: AU pk 3876
FILING DATE: 12-DEC-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: pct/au91/00575
FILING DATE: 12-DEC-1991
ATTORNEY/AGENT INFORMATION:
NAME: NADEL, ALAN S
REGISTRATION NUMBER: 27,363

REFERENCE/DOCKET NUMBER: 8795-4
TELECOMMUNICATION INFORMATION:
TELEPHONE: 215-567-2020
TELEFAX: 215-567-2991
INFORMATION FOR SEQ ID NO: 9:
SEQUENCE CHARACTERISTICS:
LENGTH: 18 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-08-075-541D-9

Query Match 100.0%; Score 47; DB 2; Length 18;
Best Local Similarity 100.0%; Pred. No. 0.027;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 BIDGPAGOA 9
Db 1 BIDGPAGOA 9

RESULT 5

US-08-075-541D-5
Sequence 5, Application US/08075541D
Patent No. 6183745
GENERAL INFORMATION:
APPLICANT: TINDLE, ROBERT
APPLICANT: FERNANDO, GERMAIN
APPLICANT: FRAZER, IAN
TITLE OF INVENTION: SUBUNIT PAPILLOMA VIRUS VACCINE AND
TITLE OF INVENTION: PEPTIDES FOR USE THEREIN
NUMBER OF SEQUENCES: 56
CORRESPONDENCE ADDRESS:
ADDRESSEE: PANITCH SCHWARZE JACOBS & NADEL, P.C.
STREET: 1601 MARKET STREET, 36TH FLOOR
CITY: PHILADELPHIA
STATE: PENNSYLVANIA
COUNTRY: USA
ZIP: 19103-2398
COMPUTER READABLE FORM:
MEDIUM TYPE: floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/075,541D
FILING DATE: 10-JUN-1993
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: AU pk 3876
FILING DATE: 12-DEC-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: pct/au91/00575
FILING DATE: 12-DEC-1991
ATTORNEY/AGENT INFORMATION:
NAME: NADEL, ALAN S
REGISTRATION NUMBER: 27,363
REFERENCE/DOCKET NUMBER: 8795-4
TELECOMMUNICATION INFORMATION:
TELEPHONE: 215-567-2020
TELEFAX: 215-567-2991
INFORMATION FOR SEQ ID NO: 5:
SEQUENCE CHARACTERISTICS:
LENGTH: 20 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-08-075-541D-5

Query Match 100.0%; Score 47; DB 2; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.03;

Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 EIDGPAGQA 9
Db 1 EIDGPAGQA 9

RESULT 6
US-09-980-177A-72
; Sequence 72, Application US/09980177A
; Patent No. 6838084
; GENERAL INFORMATION:
; APPLICANT: Jochmus, Ingrid
; APPLICANT: Nieland, John
; TITLE OF INVENTION: Cytotoxic T-Cell Epitopes of the
; TITLE OF INVENTION: Papilloma Virus L1-Protein and Use Thereof in Diagnosis and
; FILE REFERENCE: 50125/036001
; CURRENT APPLICATION NUMBER: US/09/980,177A
; PRIOR FILING DATE: 2001-11-29
; PRIOR APPLICATION NUMBER: PCT/EP00/05006
; PRIOR FILING DATE: 2000-05-31
; PRIOR APPLICATION NUMBER: DE 19925199.1
; PRIOR FILING DATE: 1999-06-01
; NUMBER OF SEQ ID NOS: 77
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO: 72
; LENGTH: 20
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-09-980-177A-72

Query Match 100.0%; Score 47; DB 2; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.03;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 EIDGPAGQA 9
Db 4 EIDGPAGQA 12

RESULT 7
US-10-612-818-6
; Sequence 6, Application US/10612818
; Patent No. 6933123
; GENERAL INFORMATION:
; APPLICANT: Impact Diagnostics
; TITLE OF INVENTION: Impact Diagnostics
; TITLE OF INVENTION: Peptides from the E2, E6 and E7 Proteins of Human Papillomavirus
; TITLE OF INVENTION: 18 for Detecting and/or Diagnosing Cervical and Other Human Papi
; FILE REFERENCE: 3352-2-2
; CURRENT APPLICATION NUMBER: US/10/612,818
; PRIOR FILING DATE: 2003-07-01
; PRIOR APPLICATION NUMBER: US 60/394,172
; PRIOR FILING DATE: 2002-07-02
; PRIOR APPLICATION NUMBER: US 09/828,645
; PRIOR FILING DATE: 2001-04-05
; NUMBER OF SEQ ID NOS: 8
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO: 6
; LENGTH: 21
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Derived from the E7 early coding region of HPV 16
US-10-612-818-6

Query Match 100.0%; Score 47; DB 2; Length 21;
Best Local Similarity 100.0%; Pred. No. 0.031;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 EIDGPAGQA 9

Db 12 EIDGPAGQA 20

RESULT 8
US-09-367-309A-6
; Sequence 6, Application US/09367309A
; Patent No. 6428807
; GENERAL INFORMATION:
; APPLICANT: MACFARLAN, RODERICK I.
; APPLICANT: MALLIAROS, JIM
; TITLE OF INVENTION: CHELATING IMMUNOSTIMULATING COMPLEXES
; FILE REFERENCE: 017227/0149
; CURRENT APPLICATION NUMBER: US/09/367,309A
; PRIOR FILING DATE: 1999-08-11
; PRIOR APPLICATION NUMBER: PCT/AU98/00080
; PRIOR FILING DATE: 1998-02-13
; PRIOR APPLICATION NUMBER: AU PO 5178
; PRIOR FILING DATE: 1997-02-19
; NUMBER OF SEQ ID NOS: 6
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO: 6
; LENGTH: 22
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
US-09-367-309A-6

Query Match 100.0%; Score 47; DB 2; Length 22;
Best Local Similarity 100.0%; Pred. No. 0.033;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 EIDGPAGQA 9
Db 5 EIDGPAGQA 13

RESULT 9
US-08-363-586-2
; Sequence 2, Application US/08363586
; Patent No. 5629161
; GENERAL INFORMATION:
; APPLICANT: Mueller, Martin
; APPLICANT: Gissmann, Lutz
; TITLE OF INVENTION: Use of HPV-16 E6 and E7-Gene Derived
; TITLE OF INVENTION: Peptides for the Diagnostic Purpose
; NUMBER OF SEQUENCES: 4
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Finnegan, Henderson, Farabow, Garrett &
; ADDRESS: Dunner
; STREET: 1300 I Street, N.W.
; CITY: Washington
; STATE: D.C.
; COUNTRY: USA
; ZIP: 20005-3315
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/363,586
; FILING DATE: 23-DEC-1994
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/909,296
; FILING DATE: 09-JUL-1992
; APPLICATION NUMBER: EP 91111720.8
; FILING DATE: 13-JUL-1991
; ATTORNEY/AGENT INFORMATION:
; NAME: Wadler, Linda A.

```

;
;   REGISTRATION NUMBER: 33,218
;   REFERENCE/DOCKET NUMBER: 02481-1195-00000
;   TELECOMMUNICATION INFORMATION:
;   TELEPHONE: 202-408-4000
;   TELEFAX: 202-408-4400
;   INFORMATION FOR SEQ ID NO: 2:
;   SEQUENCE CHARACTERISTICS:
;   LENGTH: 25 amino acids
;   TYPE: amino acid
;   TOPOLOGY: linear
;   MOLECULE TYPE: peptide
;   US-08-363-586-2

Query Match          100.0%; Score 47; DB 1; Length 25;
Best Local Similarity 100.0%; Pred. No. 0.037;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 EIDGPAGQA 9
        |||||
Db      9 EIDGPAGQA 17

RESULT 10
US-09-486-394-2
; Sequence 2, Application US/09486394
; Patent No. 6478749
; GENERAL INFORMATION:
; APPLICANT: Hopfl, Reinhard
; TITLE OF INVENTION: Diagnostic Kit for Skin Tests, and Method
; FILE REFERENCE: 032929-001
; CURRENT APPLICATION NUMBER: US/09/486,394
; PRIOR FILING DATE: 2000-06-20
; PRIOR APPLICATION NUMBER: PCT/EP98/04773
; PRIOR FILING DATE: 1998-07-30
; PRIOR APPLICATION NUMBER: DE 197 37 409.3
; PRIOR FILING DATE: 1997-08-27
; NUMBER OF SEQ ID NOS: 6
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 2
; LENGTH: 30
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
; FEATURE:
; NAME/KEY: PEPTIDE
; LOCATION: (1)-(30)
; OTHER INFORMATION: E7 peptide.
; US-09-486-394-2

Query Match          100.0%; Score 47; DB 2; Length 30;
Best Local Similarity 100.0%; Pred. No. 0.045;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 EIDGPAGQA 9
        |||||
Db      17 EIDGPAGQA 25

RESULT 11
US-09-501-097A-6
; Sequence 6, Application US/09501097A
; Patent No. 6734173
; GENERAL INFORMATION:
; APPLICANT: Tzyy-Choo Wu
; APPLICANT: Chien-Fu Hung
; TITLE OF INVENTION: IMPROVED HSP DNA VACCINES
; FILE REFERENCE: 2240-169349
; CURRENT APPLICATION NUMBER: US/09/501,097A
; CURRENT FILING DATE: 2000-02-09
; NUMBER OF SEQ ID NOS: 25
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 6
; LENGTH: 38
; TYPE: PRT
```

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;   ORGANISM: human papillomavirus
;   US-09-501-097A-6

Query Match          100.0%; Score 47; DB 2; Length 38;
Best Local Similarity 100.0%; Pred. No. 0.058;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 EIDGPAGQA 9
        |||||
Db      8 EIDGPAGQA 16

RESULT 12
US-08-406-248-6
; Sequence 6, Application US/08406248
; Patent No. 5736318
; GENERAL INFORMATION:
; APPLICANT: Munger, Karl
; APPLICANT: Jones, D. Leanne
; TITLE OF INVENTION: METHOD AND KIT FOR EVALUATING
; TITLE OF INVENTION: TRANSFORMED CELLS
; NUMBER OF SEQUENCES: 6
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Ann-Louise Kerner, Ph.D., Lappin & Kusmer
; STREET: 200 State Street
; CITY: Boston
; STATE: MA
; COUNTRY: USA
; ZIP: 02109
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/406,248
; FILING DATE:
; CLASSIFICATION: 436
; ATTORNEY/AGENT INFORMATION:
; NAME: McDaniels, Patricia A.
; REGISTRATION NUMBER: 33,194
; REFERENCE/DOCKET NUMBER: HAZ-011
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 617-330-1300
; TELEFAX: 617-330-1311
; INFORMATION FOR SEQ ID NO: 6:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 98 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-406-248-6

Query Match          100.0%; Score 47; DB 1; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.15;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 EIDGPAGQA 9
        |||||
Db      37 EIDGPAGQA 45

RESULT 13
US-08-075-541D-42
; Sequence 42, Application US/08075541D
; Patent No. 6183745
; GENERAL INFORMATION:
; APPLICANT: TINDLE, ROBERT
; APPLICANT: FERNANDO, GERMAIN
; APPLICANT: FRAZER, IAN
; TITLE OF INVENTION: SUBUNIT PAPILLOMA VIRUS VACCINE AND
; TITLE OF INVENTION: PEPTIDES FOR USE THEREIN
; NUMBER OF SEQUENCES: 56
```

;; CORRESPONDENCE ADDRESS:
;; ADDRESSEE: PANITCH SCHWARZE JACOBS & NADEL, P.C.
;; STREET: 1601 MARKET STREET, 36TH FLOOR
;; CITY: PHILADELPHIA
;; STATE: PENNSYLVANIA
;; COUNTRY: USA
;; ZIP: 19103-2398
;; COMPUTER READABLE FORM:
;; MEDIUM TYPE: Floppy disk
;; COMPUTER: IBM PC compatible
;; OPERATING SYSTEM: PC-DOS/MS-DOS
;; SOFTWARE: Patentin Release #1.0, Version #1.25
;; CURRENT APPLICATION DATA:
;; APPLICATION NUMBER: US/08/075,541D
;; FILING DATE: 10-JUN-1993
;; CLASSIFICATION: 424
;; PRIOR APPLICATION DATA:
;; APPLICATION NUMBER: AU PK 3876
;; FILING DATE: 12-DEC-1990
;; PRIOR APPLICATION DATA:
;; APPLICATION NUMBER: pcc/au91/00575
;; FILING DATE: 12-DEC-1991
;; ATTORNEY/AGENT INFORMATION:
;; NAME: NADEL, ALAN S
;; REGISTRATION NUMBER: 27,363
;; REFERENCE/DOCKET NUMBER: 8795-4
;; TELECOMMUNICATION INFORMATION:
;; TELEPHONE: 215-567-2020
;; TELEFAX: 215-567-2991
;; INFORMATION FOR SEQ ID NO: 42:
;; SEQUENCE CHARACTERISTICS:
;; LENGTH: 98 amino acids
;; TYPE: amino acid
;; STRANDEDNESS: single
;; TOPOLOGY: linear
;; MOLECULE TYPE: peptide
;; US-08-075-541D-42

Query Match 100.0%; Score 47; DB 2; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.15;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 1 EIDSPAGOA 9
|||
Db 37 EIDSPAGOA 45

RESULT 14
US-09-382-616A-1
; Sequence 1, Application US/09382616A
; Patent No. 6200746
; GENERAL INFORMATION:
; APPLICANT: Fisher, Christopher
; APPLICANT: He, Manxia
; TITLE OF INVENTION: Methods to Identify Anti-Viral Agents
; FILE REFERENCE: 28341/6216
; CURRENT APPLICATION NUMBER: US/09/382,616A
; PRIOR FILING DATE: 1999-08-25
; PRIOR APPLICATION NUMBER: 09/382,616
; NUMBER OF SEQ ID NOS: 43
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 1
; LENGTH: 98
; TYPE: PRT
; ORGANISM: Papillomavirus sylvilagi
US-09-382-616A-1

Query Match 100.0%; Score 47; DB 2; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.15;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 1 EIDSPAGOA 9

Db 37 EIDSPAGOA 45
|||||
RESULT 15
US-08-944-368A-4
; Sequence 4, Application US/08944368A
; Patent No. 6228368
; GENERAL INFORMATION:
; APPLICANT: Giesman, et al.
; TITLE OF INVENTION: Papilloma Virus Capsomere Vaccine
; NUMBER OF SEQUENCES: 28
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Marshall, O'Toole, Gerstein, Murray &
; ADDRESS: Borun
; STREET: 233 South Wacker Drive, 6300 Sears Tower
; CITY: Chicago
; STATE: Illinois
; COUNTRY: United States of America
; ZIP: 60606-6402
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/944,368A
; FILING DATE:
; CLASSIFICATION: 424
; ATTORNEY/AGENT INFORMATION:
; NAME: Williams Jr., Joseph A.
; REGISTRATION NUMBER: 38,659
; REFERENCE/DOCKET NUMBER: 27013/34028
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 312-474-6300
; TELEFAX: 312-474-0448
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 98 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-944-368A-4

Query Match 100.0%; Score 47; DB 2; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.15;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 1 EIDSPAGOA 9
|||||
Db 37 EIDSPAGOA 45

RESULT 16
US-09-820-764-4
; Sequence 4, Application US/09820764
; Patent No. 6352696
; GENERAL INFORMATION:
; APPLICANT: BURGER, Alexander
; APPLICANT: HALLEK, Michael
; TITLE OF INVENTION: PAPILLOMA VIRUS CAPSOMERE VACCINE
; FORMULATIONS AND METHODS OF USE
; NUMBER OF SEQUENCES: 28
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: FOLEY & LARDNER
; STREET: 3000 K Street, N.W.
; CITY: Washington
; STATE: D.C.
; COUNTRY: U.S.A.
; ZIP: 20007-5109
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/820,764
FILING DATE: 30-Mar-2001
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 09/026,896
FILING DATE: 20-FEB-1998
ATTORNEY/AGENT INFORMATION:
NAME: Sandercock, Colin G.
REGISTRATION NUMBER: 31,298
REFERENCE/DOCKET NUMBER: 37067/102
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 672-5300
TELEFAX: (202) 672-5399
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 98 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
SEQUENCE DESCRIPTION: SEQ ID NO: 4:
US-09-820-764-4

Query Match 100.0%; Score 47; DB 2; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.15; Indels 0; Gaps 0;
Matches 9; Conservative 0; Mismatches 0

QY 1 EIDGPAGQA 9
|||
DB 37 EIDGPAGQA 45

RESULT 17
US-09-613-303-8
Sequence 8, Application US/09613303
Patent No. 6495347
GENERAL INFORMATION:
APPLICANT: Siegel, Marvin
APPLICANT: Chu, N. Randall
APPLICANT: Mizen, Lee A.
TITLE OF INVENTION: INDUCTION OF A TH1-LIKE RESPONSE IN VITRO
FILE REFERENCE: 12071/002001
CURRENT APPLICATION NUMBER: US/09/613,303
CURRENT FILING DATE: 2000-07-10
PRIOR APPLICATION NUMBER: US 60/143,757
PRIOR FILING DATE: 1999-07-08
NUMBER OF SEQ ID NOS: 55
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 8
LENGTH: 98
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: fusion sequence
US-09-613-303-8

Query Match 100.0%; Score 47; DB 2; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.15; Indels 0; Gaps 0;
Matches 9; Conservative 0; Mismatches 0

QY 1 EIDGPAGQA 9
|||
DB 37 EIDGPAGQA 45

RESULT 18
US-09-566-420-19
Sequence 19, Application US/09566420
Patent No. 6500641
GENERAL INFORMATION:

APPLICANT: CHEN, SI-YI AND ZHAOYANG, YOU
TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR ANTIGENS WHICH ELICIT AN
TITLE OF INVENTION: IMMUNE RESPONSE
FILE REFERENCE: TBA
CURRENT APPLICATION NUMBER: US/09/566,420
CURRENT FILING DATE: 2000-05-05
PRIOR APPLICATION NUMBER: 60/132,752
PRIOR FILING DATE: 1999-05-06
PRIOR APPLICATION NUMBER: 60/132,750
PRIOR FILING DATE: 1999-05-06
NUMBER OF SEQ ID NOS: 19
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 19
LENGTH: 98
TYPE: PRT
ORGANISM: Human papillomavirus type E7
US-09-566-420-19

Query Match 100.0%; Score 47; DB 2; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.15; Indels 0; Gaps 0;
Matches 9; Conservative 0; Mismatches 0

QY 1 EIDGPAGQA 9
|||
DB 37 EIDGPAGQA 45

RESULT 19
US-09-986-118A-4
Sequence 4, Application US/09986118A
Patent No. 6562351
GENERAL INFORMATION:
APPLICANT: BURGER, Alexander
APPLICANT: HALLEK, Michael
TITLE OF INVENTION: PAPILLOMA VIRUS CARSONERE VACCINE
FORMULATIONS AND METHODS OF USE
NUMBER OF SEQUENCES: 28
CORRESPONDENCE ADDRESS:
ADDRESSEE: FOLEY & LARDNER
STREET: 3000 K Street, N.W.
CITY: Washington
STATE: D.C.
COUNTRY: U.S.A.
ZIP: 20007-5109
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/986,118A
FILING DATE: 07-NO. 6562351-2001
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 09/026,896
FILING DATE: <Unknown>
ATTORNEY/AGENT INFORMATION:
NAME: Sandercock, Colin G.
REGISTRATION NUMBER: 31,298
REFERENCE/DOCKET NUMBER: 37067/102
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 672-5300
TELEFAX: (202) 672-5399
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 98 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
SEQUENCE DESCRIPTION: SEQ ID NO: 4:
US-09-986-118A-4

Query Match 100.0%; Score 47; DB 2; Length 98;

Best Local Similarity 100.0%; Pred. No. 0.15; Indels 0; Gaps 0;
Matches 9; Conservative 0; Mismatches 0;

Qy 1 EIDBPAGQA 9
|||
Db 37 EIDBPAGQA 45

RESULT 20
US-09-728-466-1

; Sequence 1, Application US/09728466
; Patent No. 6641994
; GENERAL INFORMATION:
; APPLICANT: Fisher, Christopher
; TITLE OF INVENTION: Methods to Identify Anti-Viral Agents
; FILE REFERENCE: 28341/6216
; CURRENT APPLICATION NUMBER: US/09/728,466
; CURRENT FILING DATE: 2000-12-01
; PRIOR APPLICATION NUMBER: 09/382,616
; PRIOR FILING DATE: 1999-08-25
; NUMBER OF SEQ ID NOS: 43
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 1
; LENGTH: 98
; TYPE: PRT
; ORGANISM: Papillomavirus sv4v1agi
US-09-728-466-1

Query Match 100.0%; Score 47; DB 2; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.15;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 EIDBPAGQA 9
|||
Db 37 EIDBPAGQA 45

RESULT 21
US-09-824-017-4

; Sequence 4, Application US/09824017
; Patent No. 6649167
; GENERAL INFORMATION:
; APPLICANT: BURGER, Alexander
; TITLE OF INVENTION: PAPILLOMA VIRUS CAPSOMERE VACCINE
; FORMULATIONS AND METHODS OF USE
; NUMBER OF SEQUENCES: 28
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: FOLEY & LARDNER
; STREET: 3000 K Street, N.W.
; CITY: Washington
; STATE: D.C.
; COUNTRY: U.S.A.
; ZIP: 20007-5109
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/824,017
; FILING DATE: 03-Apr-2001
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 09/026,896
; FILING DATE: 1998-02-20
; ATTORNEY/AGENT INFORMATION:
; NAME: Sandercock, Colin G.
; REGISTRATION NUMBER: 31,298
; REFERENCE/DOCKET NUMBER: 37067/102
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202) 672-5300

; TELEFAX: (202) 672-5399
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 98 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; SEQUENCE DESCRIPTION: SEQ ID NO: 4:

US-09-824-017-4

Query Match 100.0%; Score 47; DB 2; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.15;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 EIDBPAGQA 9
|||
Db 37 EIDBPAGQA 45

RESULT 22
US-10-267-311-8
; Sequence 8, Application US/10267311
; Patent No. 6657055
; GENERAL INFORMATION:
; APPLICANT: Siegel, Marvin
; APPLICANT: Chu, N. Randall
; APPLICANT: Mizzen, Lee A.
; TITLE OF INVENTION: INDUCTION OF A TH1-LIKE RESPONSE IN VITRO
; FILE REFERENCE: 12071/002001
; CURRENT APPLICATION NUMBER: US/10/267,311
; CURRENT FILING DATE: 2002-10-09
; PRIOR APPLICATION NUMBER: US/09/613,303
; PRIOR FILING DATE: 2000-07-10
; PRIOR APPLICATION NUMBER: US 60/143,757
; PRIOR FILING DATE: 1999-07-08
; NUMBER OF SEQ ID NOS: 55
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 8
; LENGTH: 98
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: fusion sequence
US-10-267-311-8

Query Match 100.0%; Score 47; DB 2; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.15;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 EIDBPAGQA 9
|||
Db 37 EIDBPAGQA 45

RESULT 23
US-10-201-764-19
; Sequence 19, Application US/10201764
; Patent No. 6716623
; GENERAL INFORMATION:
; APPLICANT: CHEN, SI-YI AND ZHAOYANG, YOU
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR ANTIGENS WHICH ELICIT AN
; IMMUNE RESPONSE
; FILE REFERENCE: TBA
; CURRENT APPLICATION NUMBER: US/10/201,764
; CURRENT FILING DATE: 2002-07-22
; PRIOR APPLICATION NUMBER: US/09/566,420
; PRIOR FILING DATE: 2000-05-05
; PRIOR APPLICATION NUMBER: 60/132,752
; PRIOR FILING DATE: 1999-05-06
; PRIOR APPLICATION NUMBER: 60/132,750
; PRIOR FILING DATE: 1999-05-06
; NUMBER OF SEQ ID NOS: 19
; SOFTWARE: Patentin Ver. 2.0

SEQ ID NO 19
LENGTH: 98
TYPE: PRT
ORGANISM: Human papillomavirus type E7
US-10-201-764-19

Query Match 100.0%; Score 47; DB 2; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.15;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 EIDGPAGQA 9
Db 37 EIDGPAGQA 45

RESULT 24
US-09-637-746-3
Sequence 3, Application US/09637746
Patent No. 6727079
GENERAL INFORMATION:
APPLICANT: Thorgelsson, Snorri S.
APPLICANT: Moltach, Joseph T.
APPLICANT: Zhang, Minghuang
TITLE OF INVENTION: CDNA ENCODING A GENE BOG (BST OVER-EXPRESSED GENE) AND ITS PROTEIN
FILE REFERENCE: 11613.29USM1
CURRENT APPLICATION NUMBER: US/09/637,746
CURRENT FILING DATE: 2000-08-11
PRIOR APPLICATION NUMBER: PCT/US99/04142
PRIOR FILING DATE: 1999-02-25
PRIOR APPLICATION NUMBER: US 60/079,567
PRIOR FILING DATE: 1998-03-27
PRIOR APPLICATION NUMBER: US 60/075,922
PRIOR FILING DATE: 1998-02-25
NUMBER OF SEQ ID NOS: 15
SOFTWARE: Patent version 3.1
SEQ ID NO 3
LENGTH: 98
TYPE: PRT
ORGANISM: Human papillomavirus
US-09-637-746-3

Query Match 100.0%; Score 47; DB 2; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.15;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 EIDGPAGQA 9
Db 37 EIDGPAGQA 45

RESULT 25
US-09-501-097A-7
Sequence 7, Application US/09501097A
Patent No. 6734173
GENERAL INFORMATION:
APPLICANT: Tevy-Chouu Wu
APPLICANT: Chien-Pu Hung
TITLE OF INVENTION: IMPROVED HSP DNA VACCINES
FILE REFERENCE: 2240-169349
CURRENT APPLICATION NUMBER: US/09/501,097A
CURRENT FILING DATE: 2000-02-09
NUMBER OF SEQ ID NOS: 25
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 7
LENGTH: 98
TYPE: PRT
ORGANISM: human papillomavirus
US-09-501-097A-7

Query Match 100.0%; Score 47; DB 2; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.15;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 EIDGPAGQA 9
Db 37 EIDGPAGQA 45

RESULT 26
US-09-980-523A-12
Sequence 12, Application US/09980523A
Patent No. 6783763
GENERAL INFORMATION:
APPLICANT: CHOPPIN, JEANNINE
APPLICANT: BOURGAULT VILLADA, ISABELLE
APPLICANT: GUILLET, JEAN-GERARD
APPLICANT: CONNAN, FRANCES
APPLICANT: FERRIS, ESTELLE
TITLE OF INVENTION: POLYPEPTIC PROTEIN FRAGMENTS OF THE E6 AND E7
TITLE OF INVENTION: PROTEINS OF HPV, THEIR PRODUCTION AND THEIR USE
TITLE OF INVENTION: PARTICULARLY IN VACCINATION
FILE REFERENCE: WO91 AO INS
CURRENT APPLICATION NUMBER: US/09/980,523A
CURRENT FILING DATE: 2002-04-29
PRIOR APPLICATION NUMBER: PCT/FR00/01513
PRIOR FILING DATE: 2000-05-31
PRIOR APPLICATION NUMBER: FR 99/07012
PRIOR FILING DATE: 1999-06-03
NUMBER OF SEQ ID NOS: 24
SOFTWARE: Patent Ver. 2.1
SEQ ID NO 12
LENGTH: 98
TYPE: PRT
ORGANISM: Human Papillomavirus
US-09-980-523A-12

Query Match 100.0%; Score 47; DB 2; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.15;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 EIDGPAGQA 9
Db 37 EIDGPAGQA 45

RESULT 27
US-09-613-303-12
Sequence 12, Application US/09613303
Patent No. 6495347
GENERAL INFORMATION:
APPLICANT: Siegel, Marvin
APPLICANT: Chu, N. Randall
APPLICANT: Mizzzen, Lee A.
TITLE OF INVENTION: INDUCTION OF A TH1-LIKE RESPONSE IN VITRO
FILE REFERENCE: 12071/002001
CURRENT APPLICATION NUMBER: US/09/613,303
CURRENT FILING DATE: 2000-07-10
PRIOR APPLICATION NUMBER: US 60/143,757
PRIOR FILING DATE: 1999-07-08
NUMBER OF SEQ ID NOS: 55
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 12
LENGTH: 121
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: fusion sequence
US-09-613-303-12

Query Match 100.0%; Score 47; DB 2; Length 121;
Best Local Similarity 100.0%; Pred. No. 0.19;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 EIDGPAGQA 9

Db 60 EIDGPAGQA 68

RESULT 28
US-10-267-311-12
; Sequence 12, Application US/10267311
; Patent No. 6657055
; GENERAL INFORMATION:
; APPLICANT: Siegel, Marvin
; APPLICANT: Chu, N. Randall
; APPLICANT: Mizzen, Lee A.
; TITLE OF INVENTION: INDUCTION OF A TH1-LIKE RESPONSE IN VITRO
; FILE REFERENCE: 12071/002001
; CURRENT APPLICATION NUMBER: US/10/267,311
; PRIOR FILING DATE: 2002-10-09
; PRIOR APPLICATION NUMBER: US/09/613,303
; PRIOR FILING DATE: 2000-07-10
; PRIOR APPLICATION NUMBER: US 60/143,757
; PRIOR FILING DATE: 1999-07-08
; NUMBER OF SEQ ID NOS: 55
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 12
; LENGTH: 121
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: fusion sequence
US-10-267-311-12

Query Match 100.0%; Score 47; DB 2; Length 121;
Best Local Similarity 100.0%; Pred. No. 0.19; Mismatches 0; Indels 0; Gaps 0;
Matches 9; Conservative 0;

QY 1 EIDGPAGQA 9
|||
Db 60 EIDGPAGQA 68

RESULT 29
US-08-860-165-12
; Sequence 12, Application US/08860165A
; Patent No. 6004557
; GENERAL INFORMATION:
; APPLICANT: EDWARDS, Stirling John
; APPLICANT: COX, John Cooper
; APPLICANT: WEBB, Elizabeth Ann
; APPLICANT: FRAZER, Ian
; TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
; FILE REFERENCE: 17227/130
; CURRENT APPLICATION NUMBER: US/08/860,165A
; PRIOR FILING DATE: 1997-09-22
; EARLIER APPLICATION NUMBER: PCT/AU95/00868
; EARLIER FILING DATE: 1995-12-20
; EARLIER APPLICATION NUMBER: AU PN0157
; EARLIER FILING DATE: 1994-12-20
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 12
; LENGTH: 172
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Gene Fusion
US-08-860-165-12

Query Match 100.0%; Score 47; DB 2; Length 172;
Best Local Similarity 100.0%; Pred. No. 0.28; Mismatches 0; Indels 0; Gaps 0;
Matches 9; Conservative 0;

QY 1 EIDGPAGQA 9
|||
Db 135 EIDGPAGQA 143

RESULT 30
US-08-860-165-14
; Sequence 14, Application US/08860165A
; Patent No. 6004557
; GENERAL INFORMATION:
; APPLICANT: EDWARDS, Stirling John
; APPLICANT: COX, John Cooper
; APPLICANT: WEBB, Elizabeth Ann
; APPLICANT: FRAZER, Ian
; TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
; FILE REFERENCE: 17227/130
; CURRENT APPLICATION NUMBER: US/08/860,165A
; PRIOR FILING DATE: 1997-09-22
; EARLIER APPLICATION NUMBER: PCT/AU95/00868
; EARLIER FILING DATE: 1995-12-20
; EARLIER APPLICATION NUMBER: AU PN0157
; EARLIER FILING DATE: 1994-12-20
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 14
; LENGTH: 172
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Gene Fusion
US-08-860-165-14

Query Match 100.0%; Score 47; DB 2; Length 172;
Best Local Similarity 100.0%; Pred. No. 0.28; Mismatches 0; Indels 0; Gaps 0;
Matches 9; Conservative 0;

QY 1 EIDGPAGQA 9
|||
Db 5 EIDGPAGQA 13

RESULT 31
US-09-359-382-12
; Sequence 12, Application US/09359382
; Patent No. 6306397
; GENERAL INFORMATION:
; APPLICANT: EDWARDS, Stirling John
; APPLICANT: COX, John Cooper
; APPLICANT: WEBB, Elizabeth Ann
; APPLICANT: FRAZER, Ian
; TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
; FILE REFERENCE: 017227/0148
; CURRENT APPLICATION NUMBER: US/09/359,382
; CURRENT FILING DATE: 1999-07-23
; EARLIER APPLICATION NUMBER: US 08/860,165
; EARLIER FILING DATE: 1997-09-22
; EARLIER APPLICATION NUMBER: PCT/AU95/00868
; EARLIER FILING DATE: 1995-12-20
; EARLIER APPLICATION NUMBER: AU PN0157/94
; EARLIER FILING DATE: 1994-12-20
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 12
; LENGTH: 172
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-09-359-382-12

Query Match 100.0%; Score 47; DB 2; Length 172;
Best Local Similarity 100.0%; Pred. No. 0.28; Mismatches 0; Indels 0; Gaps 0;
Matches 9; Conservative 0;

QY 1 EIDGPAGQA 9
|||
Db 135 EIDGPAGQA 143

RESULT 32
US-09-359-382-14
; Sequence 14, Application US/09359382
; Patent No. 6306397
; GENERAL INFORMATION:
; APPLICANT: EDWARDS, Scirling John
; APPLICANT: COX, John Cooper
; APPLICANT: WEBB, Elizabeth Ann
; APPLICANT: FRAZER, Ian
; TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
; FILE REFERENCE: 017227/0148
; CURRENT APPLICATION NUMBER: US/09/359,382
; CURRENT FILING DATE: 1999-07-23
; EARLIER APPLICATION NUMBER: US 08/860,165
; EARLIER FILING DATE: 1997-09-22
; EARLIER APPLICATION NUMBER: PCT/AU95/00868
; EARLIER FILING DATE: 1995-12-20
; EARLIER APPLICATION NUMBER: AU PNO157/94
; EARLIER FILING DATE: 1994-12-20
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 14
; LENGTH: 172
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-09-359-382-14

Query Match 100.0%; Score 47; DB 2; Length 172;
Best Local Similarity 100.0%; Pred. No. 0.28; 0; Indels 0; Gaps 0;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 EIDGPAGQA 9
Db 5 EIDGPAGQA 13

RESULT 33
US-09-462-993-2
; Sequence 2, Application US/09462993
; Patent No. 6884786
; GENERAL INFORMATION:
; APPLICANT: KIENV, Marie-Paule
; APPLICANT: BALLOUT, Jean-Marc
; APPLICANT: BIZOUARRE, Nadine
; TITLE OF INVENTION: ANTIMORAL COMPOSITION BASED ON IMMUNOGENIC
; FILE REFERENCE: 017753-122
; CURRENT APPLICATION NUMBER: US/09/462,993
; CURRENT FILING DATE: 2000-04-17
; PRIOR APPLICATION NUMBER: PCT/FR98/01576
; PRIOR FILING DATE: 1998-07-17
; PRIOR APPLICATION NUMBER: FR 97/09152
; PRIOR FILING DATE: 1997-07-18
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: PatentIn Ver. 2.2
; SEQ ID NO 2
; LENGTH: 185
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Derived from human papillomavirus, strain
; OTHER INFORMATION: HPV-16, E7 fusion signals of the rabies
; OTHER INFORMATION: glycoprotein, clone E7*TMR.
US-09-462-993-2

Query Match 100.0%; Score 47; DB 2; Length 185;
Best Local Similarity 100.0%; Pred. No. 0.3; 0; Indels 0; Gaps 0;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 EIDGPAGQA 9
Db 56 EIDGPAGQA 64

RESULT 34
US-09-613-303-35
; Sequence 35, Application US/09613303
; Patent No. 6495347
; GENERAL INFORMATION:
; APPLICANT: Siegel, Marvin
; APPLICANT: Chu, N. Randall
; APPLICANT: Mizzen, Lee A.
; TITLE OF INVENTION: INDUCTION OF A TH1-LIKE RESPONSE IN VITRO
; FILE REFERENCE: 12071/002001
; CURRENT APPLICATION NUMBER: US/09/613,303
; CURRENT FILING DATE: 2000-07-10
; PRIOR APPLICATION NUMBER: US 60/143,757
; PRIOR FILING DATE: 1999-07-08
; NUMBER OF SEQ ID NOS: 55
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 35
; LENGTH: 198
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: fusion sequence
US-09-613-303-35

Query Match 100.0%; Score 47; DB 2; Length 198;
Best Local Similarity 100.0%; Pred. No. 0.32; 0; Indels 0; Gaps 0;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 EIDGPAGQA 9
Db 137 EIDGPAGQA 145

RESULT 35
US-10-267-311-35
; Sequence 35, Application US/10267311
; Patent No. 6657055
; GENERAL INFORMATION:
; APPLICANT: Siegel, Marvin
; APPLICANT: Chu, N. Randall
; APPLICANT: Mizzen, Lee A.
; TITLE OF INVENTION: INDUCTION OF A TH1-LIKE RESPONSE IN VITRO
; FILE REFERENCE: 12071/002001
; CURRENT APPLICATION NUMBER: US/10/267,311
; CURRENT FILING DATE: 2002-10-09
; PRIOR APPLICATION NUMBER: US/09/613,303
; PRIOR FILING DATE: 2000-07-10
; PRIOR APPLICATION NUMBER: US 60/143,757
; PRIOR FILING DATE: 1999-07-08
; NUMBER OF SEQ ID NOS: 55
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 35
; LENGTH: 198
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: fusion sequence
US-10-267-311-35

Query Match 100.0%; Score 47; DB 2; Length 198;
Best Local Similarity 100.0%; Pred. No. 0.32; 0; Indels 0; Gaps 0;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 EIDGPAGQA 9
Db 137 EIDGPAGQA 145

RESULT 36
US-09-485-885-1
; Sequence 1, Application US/09485885
; Patent No. 6342224

```

: GENERAL INFORMATION:
: APPLICANT: Bruck, Claudine
: APPLICANT: Cabezon Silva, Teresa
: APPLICANT: Delisse, Anne-Marie Eva Fernande
: APPLICANT: Gerard, Catherine Marie Ghislaine
: APPLICANT: Lombardo-Bencheikh, Angela
: TITLE OF INVENTION: Vaccine
: FILE REFERENCE: B45107
: CURRENT APPLICATION NUMBER: US/09/485,885
: PRIOR FILING DATE: 2000-02-18
: PRIOR APPLICATION NUMBER: PCT/EP98/05285
: PRIOR FILING DATE: 1998-08-17
: PRIOR APPLICATION NUMBER: GB 9717953.5
: PRIOR FILING DATE: 1997-08-22
: NUMBER OF SEQ ID NOS: 23
: SOFTWARE: FastSeq for Windows Version 3.0
: SEQ ID NO 1
: LENGTH: 220
: TYPE: PRT
: ORGANISM: Homo sapien
US-09-485-885-1

Query Match          100.0%; Score 47; DB 2; Length 220;
Best Local Similarity 100.0%; Pred. No. 0.36;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 EIDGPAGQA 9
        |||||
Db      150 EIDGPAGQA 158

RESULT 37
US-09-485-885-8
: Sequence 8, Application US/09485885
: Patent No. 6342224
: GENERAL INFORMATION:
: APPLICANT: Bruck, Claudine
: APPLICANT: Cabezon Silva, Teresa
: APPLICANT: Delisse, Anne-Marie Eva Fernande
: APPLICANT: Gerard, Catherine Marie Ghislaine
: APPLICANT: Lombardo-Bencheikh, Angela
: TITLE OF INVENTION: Vaccine
: FILE REFERENCE: B45107
: CURRENT APPLICATION NUMBER: US/09/485,885
: CURRENT FILING DATE: 2000-02-18
: PRIOR APPLICATION NUMBER: PCT/EP98/05285
: PRIOR FILING DATE: 1998-08-17
: PRIOR APPLICATION NUMBER: GB 9717953.5
: PRIOR FILING DATE: 1997-08-22
: NUMBER OF SEQ ID NOS: 23
: SOFTWARE: FastSeq for Windows Version 3.0
: SEQ ID NO 8
: LENGTH: 220
: TYPE: PRT
: ORGANISM: Homo sapien
US-09-485-885-8

Query Match          100.0%; Score 47; DB 2; Length 220;
Best Local Similarity 100.0%; Pred. No. 0.36;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 EIDGPAGQA 9
        |||||
Db      150 EIDGPAGQA 158

RESULT 38
US-09-485-885-12
: Sequence 12, Application US/09485885
: Patent No. 6342224
: GENERAL INFORMATION:
: APPLICANT: Bruck, Claudine
: APPLICANT: Cabezon Silva, Teresa
```

```

: APPLICANT: Delisse, Anne-Marie Eva Fernande
: APPLICANT: Gerard, Catherine Marie Ghislaine
: APPLICANT: Lombardo-Bencheikh, Angela
: TITLE OF INVENTION: Vaccine
: FILE REFERENCE: B45107
: CURRENT APPLICATION NUMBER: US/09/485,885
: CURRENT FILING DATE: 2000-02-18
: PRIOR APPLICATION NUMBER: PCT/EP98/05285
: PRIOR FILING DATE: 1998-08-17
: PRIOR APPLICATION NUMBER: GB 9717953.5
: PRIOR FILING DATE: 1997-08-22
: NUMBER OF SEQ ID NOS: 23
: SOFTWARE: FastSeq for Windows Version 3.0
: SEQ ID NO 12
: LENGTH: 239
: TYPE: PRT
: ORGANISM: Homo sapien
US-09-485-885-12

Query Match          100.0%; Score 47; DB 2; Length 239;
Best Local Similarity 100.0%; Pred. No. 0.39;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 EIDGPAGQA 9
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Db      169 EIDGPAGQA 177

RESULT 39
US-08-459-818-20
: Sequence 20, Application US/08459818
: Patent No. 5851795
: GENERAL INFORMATION:
: APPLICANT: Limley, Peter S.
: APPLICANT: Ledbetter, Jeffrey A.
: APPLICANT: Damle, Nitin K.
: APPLICANT: Brady, William
: TITLE OF INVENTION: CTLA4 Receptor and Uses Thereof
: NUMBER OF SEQUENCES: 27
: CORRESPONDENCE ADDRESSES:
: ADDRESSER: Merchant & Gould
: STREET: 1150 Santa Monica Blvd., Suite 400
: CITY: Los Angeles
: STATE: California
: COUNTRY: USA
: ZIP: 90025
: COMPUTER READABLE FORM:
: MEDIUM TYPE: Floppy disk
: COMPUTER: IBM PC compatible
: OPERATING SYSTEM: PC-DOS/MS-DOS
: SOFTWARE: FastSeq 2.0
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: US/08/459,818
: FILING DATE: 02-JUN-1995
: CLASSIFICATION: 435
: ATTORNEY/AGENT INFORMATION:
: NAME: Adriano, Sarah B.
: REGISTRATION NUMBER: 34,470
: REFERENCE/DOCKET NUMBER: 30436.35US02
: TELECOMMUNICATION INFORMATION:
: TELEPHONE: 310-445-1140
: TELEFAX: 310-445-9031
: INFORMATION FOR SEQ ID NO: 20:
: SEQUENCE CHARACTERISTICS:
: LENGTH: 253 amino acids
: TYPE: amino acid
: STRANDEDNESS:
: TOPOLOGY: linear
: MOLECULE TYPE: protein
US-08-459-818-20

Query Match          100.0%; Score 47; DB 1; Length 253;
Best Local Similarity 100.0%; Pred. No. 0.41;
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Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 EIDGPAGQA 9
| | | | |
Db 192 EIDGPAGQA 200

RESULT 40

US-08-889-666-20
; Sequence 20, Application US/08889666
; Patent No. 5885579
; GENERAL INFORMATION:
; APPLICANT: Linsley, Peter S.
; APPLICANT: Ledbetter, Jeffrey A.
; APPLICANT: Damle, Nitin K.
; APPLICANT: Brady, William
; APPLICANT: Kiener, Peter A.
; TITLE OF INVENTION: CTLA4 Receptor and Uses Thereof
; NUMBER OF SEQUENCES: 26
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Merchant & Gould
; STREET: 1150 Santa Monica Blvd., Suite 400
; CITY: Los Angeles
; STATE: California
; COUNTRY: USA
; ZIP: 90025
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/889,666
; FILING DATE: 08-JUL-1997
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/375390
; FILING DATE: 18-JAN-1995
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Adriano, Sarah B.
; REGISTRATION NUMBER: 34,470
; REFERENCE/DOCKET NUMBER: 30436-35US01
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 310-445-1140
; TELEFAX: 310-445-9031
; INFORMATION FOR SEQ ID NO: 20:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 253 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-889-666-20

Query Match 100.0%; Score 47; DB 1; Length 253;
Best Local Similarity 100.0%; Pred. No. 0.41;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 EIDGPAGQA 9
| | | | |
Db 192 EIDGPAGQA 200

RESULT 41

US-08-465-078-20
; Sequence 20, Application US/08465078
; Patent No. 5885796
; GENERAL INFORMATION:
; APPLICANT: Linsley, Peter S.
; APPLICANT: Ledbetter, Jeffrey A.
; APPLICANT: Damle, Nitin K.
; APPLICANT: Brady, William

APPLICANT: Kiener, Peter A.
; TITLE OF INVENTION: CTLA4 Receptor and Uses Thereof
; NUMBER OF SEQUENCES: 26
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Merchant & Gould
; STREET: 1150 Santa Monica Blvd., Suite 400
; CITY: Los Angeles
; STATE: California
; COUNTRY: USA
; ZIP: 90025

COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/465,078
; FILING DATE: 05-JUN-1995
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/375390
; FILING DATE: 18-JAN-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: Adriano, Sarah B.
; REGISTRATION NUMBER: 34,470
; REFERENCE/DOCKET NUMBER: 30436-35US01
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 310-445-1140
; TELEFAX: 310-445-9031
; INFORMATION FOR SEQ ID NO: 20:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 253 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-465-078-20

Query Match 100.0%; Score 47; DB 1; Length 253;
Best Local Similarity 100.0%; Pred. No. 0.41;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 EIDGPAGQA 9
| | | | |
Db 192 EIDGPAGQA 200

RESULT 42
US-08-725-776-20
; Sequence 20, Application US/08725776
; Patent No. 5968510

; GENERAL INFORMATION:
; APPLICANT: Linsley, Peter S.
; APPLICANT: Ledbetter, Jeffrey A.
; APPLICANT: Damle, Nitin K.
; APPLICANT: Brady, William
; APPLICANT: Kiener, Peter A.
; TITLE OF INVENTION: CTLA4 Receptor and Uses Thereof
; NUMBER OF SEQUENCES: 26
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Merchant & Gould
; STREET: 1150 Santa Monica Blvd., Suite 400
; CITY: Los Angeles
; STATE: California
; COUNTRY: USA
; ZIP: 90025
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/725,776

;; FILING DATE:
;; CLASSIFICATION:
;; PRIOR APPLICATION DATA:
;; APPLICATION NUMBER: US 08/375390
;; FILING DATE: 18-JAN-1995
;; ATTORNEY/AGENT INFORMATION:
;; NAME: Adriano, Sarah B.
;; REGISTRATION NUMBER: 34,470
;; REFERENCE/DOCKET NUMBER: 30436-35US01
;; TELECOMMUNICATION INFORMATION:
;; TELEPHONE: 310-445-1140
;; TELEFAX: 310-445-9031
;; INFORMATION FOR SEQ ID NO: 20:
;; SEQUENCE CHARACTERISTICS:
;; LENGTH: 253 amino acids
;; TYPE: amino acid
;; STRANDEDNESS:
;; TOPOLOGY: linear
;; MOLECULE TYPE: protein
;; US-08-725-776-20

Query Match 100.0%; Score 47; DB 1; Length 253;
Best Local Similarity 100.0%; Pred. No. 0.41;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 1 EIDGPAGQA 9
Db 192 EIDGPAGQA 200

RESULT 43
US-08-488-062-20
; Sequence 20, Application US/08488062
; Patent No. 5977318
; GENERAL INFORMATION:
; APPLICANT: Linealey, Peter S.
; APPLICANT: Ledbetter, Jeffrey A.
; APPLICANT: Dangle, Nitin K.
; APPLICANT: Brady, William
; APPLICANT: Kiener, Peter A.
; TITLE OF INVENTION: CTLA4 Receptor and Uses Thereof
; NUMBER OF SEQUENCES: 26
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Merchant & Gould
; STREET: 11150 Santa Monica Blvd., Suite 400
; CITY: Los Angeles
; STATE: California
; COUNTRY: USA
; ZIP: 90025
; COMPUTER READABLE FORM:
; MEDIUM TYPE: floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/488,062
; FILING DATE: 07-JUN-1995
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/375390
; FILING DATE: 18-JAN-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: Adriano, Sarah B.
; REGISTRATION NUMBER: 34,470
; REFERENCE/DOCKET NUMBER: 30436-35US01
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 310-445-1140
; TELEFAX: 310-445-9031
; INFORMATION FOR SEQ ID NO: 20:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 253 amino acids
; TYPE: amino acid
; STRANDEDNESS:

;; TOPOLOGY: linear
;; MOLECULE TYPE: protein
;; US-08-488-062-20

Query Match 100.0%; Score 47; DB 1; Length 253;
Best Local Similarity 100.0%; Pred. No. 0.41;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 1 EIDGPAGQA 9
Db 192 EIDGPAGQA 200

RESULT 44
US-08-117-083-9
; Sequence 9, Application US/08117083
; Patent No. 5719054
; GENERAL INFORMATION:
; APPLICANT: Boursnell, Michael E.
; APPLICANT: Inglis, Stephen C.
; APPLICANT: Munro, Alan J.
; TITLE OF INVENTION: Recombinant Virus Vectors Encoding Human
; TITLE OF INVENTION: Papilloma Virus Proteins
; NUMBER OF SEQUENCES: 70
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Walter H. Dreyer
; STREET: 4 Embarcadero Center, Suite 3400
; CITY: San Francisco
; STATE: CA
; COUNTRY: USA
; ZIP: 94111
; COMPUTER READABLE FORM:
; MEDIUM TYPE: floppy disk
; OPERATING SYSTEM: IBM PC compatible
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/117,083
; FILING DATE: 10-SEP-1993
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Dreyer, Walter H.
; REGISTRATION NUMBER: 24,190
; REFERENCE/DOCKET NUMBER: A-58783
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 415-781-1989
; TELEFAX: 415-398-3249
; TELEX: 910 277299
; INFORMATION FOR SEQ ID NO: 9:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 263 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; FEATURE:
; NAME/KEY: Protein
; LOCATION: 1..263
; OTHER INFORMATION:
; ; OTHER INFORMATION: the open reading frame."
; US-08-117-083-9

Query Match 100.0%; Score 47; DB 1; Length 263;
Best Local Similarity 100.0%; Pred. No. 0.43;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 1 EIDGPAGQA 9
Db 198 EIDGPAGQA 206

RESULT 45
US-08-860-165-10

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; Sequence 10, Application US/08860165A
; Patent No. 6004557
; GENERAL INFORMATION:
; APPLICANT: EDWARDS, Stirling John
; APPLICANT: COX, John Cooper
; APPLICANT: WEBB, Elizabeth Ann
; APPLICANT: FRAZER, Ian
; TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
; FILE REFERENCE: 17227/130
; CURRENT APPLICATION NUMBER: US/08/860,165A
; CURRENT FILING DATE: 1997-09-22
; EARLIER APPLICATION NUMBER: PCT/AU95/00868
; EARLIER FILING DATE: 1995-12-20
; EARLIER APPLICATION NUMBER: AU PNO157
; EARLIER FILING DATE: 1994-12-20
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 10
; LENGTH: 266
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Gene Fusion
US-08-860-165-10

Query Match          100.0%; Score 47; DB 2; Length 266;
Best Local Similarity 100.0%; Pred. No. 0.44;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 EIDGPAGQA 9
DB 197 EIDGPAGQA 205

RESULT 46
US-09-359-382-10
; Sequence 10, Application US/09359382
; Patent No. 6306397
; GENERAL INFORMATION:
; APPLICANT: EDWARDS, Stirling John
; APPLICANT: COX, John Cooper
; APPLICANT: WEBB, Elizabeth Ann
; APPLICANT: FRAZER, Ian
; TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
; FILE REFERENCE: 017227/0148
; CURRENT APPLICATION NUMBER: US/09/359,382
; CURRENT FILING DATE: 1999-07-23
; EARLIER APPLICATION NUMBER: US 08/860,165
; EARLIER FILING DATE: 1997-09-22
; EARLIER APPLICATION NUMBER: PCT/AU95/00868
; EARLIER FILING DATE: 1995-12-20
; EARLIER APPLICATION NUMBER: AU PNO157/94
; EARLIER FILING DATE: 1994-12-20
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 10
; LENGTH: 266
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-09-359-382-10

Query Match          100.0%; Score 47; DB 2; Length 266;
Best Local Similarity 100.0%; Pred. No. 0.44;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 EIDGPAGQA 9
DB 197 EIDGPAGQA 205

RESULT 47
US-09-367-309A-1
; Sequence 1, Application US/09367309A
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; Patent No. 6428807
; GENERAL INFORMATION:
; APPLICANT: MACFARLAN, RODERICK I.
; APPLICANT: MALLIAROS, JIM
; TITLE OF INVENTION: CHELATING IMMUNOSTIMULATING COMPLEXES
; FILE REFERENCE: 017227/0149
; CURRENT APPLICATION NUMBER: US/09/367,309A
; CURRENT FILING DATE: 1999-08-11
; PRIOR APPLICATION NUMBER: PCT/AU98/00080
; PRIOR FILING DATE: 1998-02-13
; PRIOR APPLICATION NUMBER: AU PO 5178
; PRIOR FILING DATE: 1997-02-19
; NUMBER OF SEQ ID NOS: 6
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
; LENGTH: 266
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-09-367-309A-1

Query Match          100.0%; Score 47; DB 2; Length 266;
Best Local Similarity 100.0%; Pred. No. 0.44;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 EIDGPAGQA 9
DB 197 EIDGPAGQA 205

RESULT 48
US-09-501-097A-25
; Sequence 25, Application US/09501097A
; Patent No. 6734173
; GENERAL INFORMATION:
; APPLICANT: Tzzy-Choon Wu
; APPLICANT: Chien-Fu Hung
; APPLICANT: Chien-Fu Hung
; TITLE OF INVENTION: IMPROVED HSP DNA VACCINES
; FILE REFERENCE: 2240-169349
; CURRENT APPLICATION NUMBER: US/09/501,097A
; CURRENT FILING DATE: 2000-02-09
; NUMBER OF SEQ ID NOS: 25
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 25
; LENGTH: 287
; TYPE: PRT
; ORGANISM: Human papillomavirus/Mouse
US-09-501-097A-25

Query Match          100.0%; Score 47; DB 2; Length 287;
Best Local Similarity 100.0%; Pred. No. 0.47;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 EIDGPAGQA 9
DB 226 EIDGPAGQA 234

RESULT 49
US-09-613-303-33
; Sequence 33, Application US/09613303
; Patent No. 6495347
; GENERAL INFORMATION:
; APPLICANT: Siegel, Marvin
; APPLICANT: Chu, N. Randall
; APPLICANT: Mizen, Lee A.
; TITLE OF INVENTION: INDUCTION OF A TH1-LIKE RESPONSE IN VITRO
; FILE REFERENCE: 12071/002001
; CURRENT APPLICATION NUMBER: US/09/613,303
; CURRENT FILING DATE: 2000-07-10
; PRIOR APPLICATION NUMBER: US 60/143,757
; PRIOR FILING DATE: 1999-07-08
; NUMBER OF SEQ ID NOS: 55
; SOFTWARE: FastSeq for Windows Version 4.0
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; SEQ ID NO 33
; LENGTH: 295
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: fusion sequence
US-09-613-303-33
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Query Match          100.0%; Score 47; DB 2; Length 295;
Best Local Similarity 100.0%; Pred. No. 0.48;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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OY      1 EIDGPAGOA 9
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Db       234 EIDGPAGOA 242
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RESULT 50
US-10-267-311-33
; Sequence 33; Application US/10267311
; Patent No. 6657055
; GENERAL INFORMATION:
; APPLICANT: Siegel, Marvin
; APPLICANT: Chu, N. Randal
; APPLICANT: Mizen, Lee A.
; TITLE OF INVENTION: INDUCTION OF A TH1-LIKE RESPONSE IN VITRO
; FILE REFERENCE: 12071/002001
; CURRENT APPLICATION NUMBER: US/10/267,311
; CURRENT FILING DATE: 2002-10-09
; PRIOR APPLICATION NUMBER: US/09/613,303
; PRIOR FILING DATE: 2000-07-10
; PRIOR APPLICATION NUMBER: US 60/143,757
; PRIOR FILING DATE: 1999-07-08
; NUMBER OF SEQ ID NOS: 55
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 33
; LENGTH: 295
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: fusion sequence
US-10-267-311-33
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Query Match          100.0%; Score 47; DB 2; Length 295;
Best Local Similarity 100.0%; Pred. No. 0.48;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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OY      1 EIDGPAGOA 9
        |||||
Db       234 EIDGPAGOA 242
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Job time : 24.9 secs
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GenCore version 5.1.7
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OM protein - protein search, using sw model

Run on: May 5, 2006, 08:39:55 ; Search time 56.3 seconds
(without alignments)
66.793 Million cell updates/sec

Title: US-08-170-344-39
Perfect score: 47
Sequence: 1 EIDGPACGA 9

Scoring table: BIOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1867569 seqs, 417829326 residues
Total number of hits satisfying chosen parameters: 1867569

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 1000 summaries

Database :
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2: /cgn2_6/ptodata/1/pubpaa/US08_PUBCOMB.pep:*
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Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	47	100.0	9	4 US-10-239-313A-689	Sequence 689, App
2	47	100.0	9	4 US-10-648-547-20	Sequence 20, Appl
3	47	100.0	9	4 US-10-306-541-20	Sequence 20, Appl
4	47	100.0	10	3 US-09-891-823-19	Sequence 19, Appl
5	47	100.0	10	4 US-10-365-908-19	Sequence 19, Appl
6	47	100.0	10	4 US-10-648-547-24	Sequence 24, Appl
7	47	100.0	10	4 US-10-648-547-29	Sequence 29, Appl
8	47	100.0	10	4 US-10-306-541-24	Sequence 24, Appl
9	47	100.0	10	4 US-10-306-541-29	Sequence 29, Appl
10	47	100.0	10	5 US-10-871-138-19	Sequence 19, Appl
11	47	100.0	15	4 US-10-648-547-39	Sequence 39, Appl
12	47	100.0	15	4 US-10-648-547-42	Sequence 42, Appl
13	47	100.0	15	4 US-10-648-547-73	Sequence 73, Appl
14	47	100.0	15	4 US-10-648-547-82	Sequence 82, Appl
15	47	100.0	15	4 US-10-306-541-39	Sequence 39, Appl
16	47	100.0	15	4 US-10-306-541-42	Sequence 42, Appl
17	47	100.0	15	4 US-10-306-541-73	Sequence 73, Appl
18	47	100.0	15	4 US-10-306-541-82	Sequence 82, Appl
19	47	100.0	20	4 US-10-432-465-47	Sequence 47, Appl
20	47	100.0	20	5 US-10-890-526-72	Sequence 72, Appl
21	47	100.0	21	4 US-10-612-818-6	Sequence 6, Appl
22	47	100.0	21	4 US-10-648-547-106	Sequence 106, Appl
23	47	100.0	21	4 US-10-476-570-62	Sequence 62, Appl
24	47	100.0	21	4 US-10-306-541-106	Sequence 106, Appl
25	47	100.0	21	5 US-10-995-902-6	Sequence 6, Appl
26	47	100.0	22	3 US-09-367-309A-6	Sequence 6, Appl
27	47	100.0	98	3 US-09-728-466-1	Sequence 1, Appl

28	47	100.0	98	3 US-09-820-765-4	Sequence 4, Appl
29	47	100.0	98	3 US-09-824-017-4	Sequence 4, Appl
30	47	100.0	98	3 US-09-986-118A-4	Sequence 4, Appl
31	47	100.0	98	4 US-10-267-311-8	Sequence 8, Appl
32	47	100.0	98	4 US-10-177-390-8	Sequence 8, Appl
33	47	100.0	98	4 US-10-201-764-19	Sequence 19, Appl
34	47	100.0	98	4 US-10-392-113-29	Sequence 29, Appl
35	47	100.0	98	4 US-10-654-129-4	Sequence 4, Appl
36	47	100.0	98	4 US-10-681-410-19	Sequence 19, Appl
37	47	100.0	98	4 US-10-772-988-3	Sequence 3, Appl
38	47	100.0	98	4 US-10-479-541-5	Sequence 5, Appl
39	47	100.0	98	5 US-10-042-526A-4	Sequence 4, Appl
40	47	100.0	98	5 US-10-657-399-1	Sequence 1, Appl
41	47	100.0	98	5 US-10-858-384-12	Sequence 12, Appl
42	47	100.0	98	5 US-10-484-063-26	Sequence 26, Appl
43	47	100.0	98	5 US-10-343-448-5	Sequence 5, Appl
44	47	100.0	98	5 US-10-679-956-8	Sequence 8, Appl
45	47	100.0	98	5 US-10-367-057-17	Sequence 17, Appl
46	47	100.0	98	6 US-11-077-939-5	Sequence 5, Appl
47	47	100.0	99	4 US-10-115-440-7	Sequence 7, Appl
48	47	100.0	111	4 US-10-472-724-4	Sequence 4, Appl
49	47	100.0	121	4 US-10-267-311-12	Sequence 12, Appl
50	47	100.0	121	5 US-10-679-956-12	Sequence 12, Appl
51	47	100.0	185	6 US-11-072-288-2	Sequence 2, Appl
52	47	100.0	198	4 US-10-267-311-35	Sequence 35, Appl
53	47	100.0	198	5 US-10-679-956-35	Sequence 35, Appl
54	47	100.0	220	4 US-10-000-903-1	Sequence 1, Appl
55	47	100.0	220	4 US-10-000-903-8	Sequence 8, Appl
56	47	100.0	220	5 US-10-899-771-1	Sequence 1, Appl
57	47	100.0	229	4 US-10-899-771-12	Sequence 12, Appl
58	47	100.0	239	5 US-10-000-903-12	Sequence 12, Appl
59	47	100.0	266	3 US-09-367-309A-1	Sequence 1, Appl
60	47	100.0	289	4 US-10-115-440-5	Sequence 5, Appl
61	47	100.0	295	4 US-10-267-311-33	Sequence 33, Appl
62	47	100.0	324	5 US-10-679-956-33	Sequence 33, Appl
63	47	100.0	324	5 US-10-267-311-25	Sequence 25, Appl
64	47	100.0	324	5 US-10-679-956-25	Sequence 25, Appl
65	47	100.0	334	4 US-10-472-724-10	Sequence 10, Appl
66	47	100.0	371	4 US-10-000-903-6	Sequence 6, Appl
67	47	100.0	371	5 US-10-899-771-6	Sequence 6, Appl
68	47	100.0	390	4 US-10-000-903-14	Sequence 14, Appl
69	47	100.0	390	5 US-10-899-771-14	Sequence 14, Appl
70	47	100.0	421	4 US-10-296-770-7	Sequence 7, Appl
71	47	100.0	493	4 US-10-267-311-19	Sequence 19, Appl
72	47	100.0	493	5 US-10-679-956-17	Sequence 17, Appl
73	47	100.0	639	4 US-10-267-311-17	Sequence 17, Appl
74	47	100.0	639	5 US-10-679-956-17	Sequence 17, Appl
75	47	100.0	641	4 US-10-267-311-51	Sequence 51, Appl
76	47	100.0	641	5 US-10-679-956-51	Sequence 51, Appl
77	47	100.0	647	4 US-10-267-311-53	Sequence 53, Appl
78	47	100.0	647	5 US-10-679-956-53	Sequence 53, Appl
79	47	100.0	648	4 US-10-267-311-29	Sequence 29, Appl
80	47	100.0	648	5 US-10-679-956-29	Sequence 29, Appl
81	47	100.0	711	4 US-10-267-311-41	Sequence 41, Appl
82	47	100.0	711	5 US-10-679-956-41	Sequence 41, Appl
83	47	100.0	724	4 US-10-267-311-45	Sequence 45, Appl
84	47	100.0	805	4 US-10-367-095-9	Sequence 9, Appl
85	47	100.0	805	5 US-10-367-095-9	Sequence 9, Appl
86	47	100.0	805	4 US-10-368-046-9	Sequence 9, Appl
87	47	100.0	805	5 US-10-367-367-9	Sequence 9, Appl
88	47	100.0	805	4 US-10-367-367-9	Sequence 9, Appl
89	47	100.0	805	5 US-10-918-337-9	Sequence 9, Appl
90	47	100.0	8	4 US-10-648-547-38	Sequence 38, Appl
91	47	100.0	8	4 US-10-306-541-38	Sequence 38, Appl
92	47	100.0	9	4 US-10-648-547-37	Sequence 37, Appl
93	47	100.0	9	4 US-10-306-541-37	Sequence 37, Appl
94	47	100.0	9	5 US-10-924-377-9	Sequence 9, Appl
95	47	100.0	15	4 US-10-648-547-41	Sequence 41, Appl
96	47	100.0	15	4 US-10-306-541-41	Sequence 41, Appl
97	47	100.0	8	4 US-10-648-547-17	Sequence 17, Appl
98	47	100.0	8	4 US-10-306-541-17	Sequence 17, Appl
99	47	100.0	15	4 US-10-648-547-86	Sequence 86, Appl
100	47	100.0	15	4 US-10-306-541-86	Sequence 86, Appl

101	38	80.9	8	4	US-10-648-547-35	Sequence 35, Appl	174	33	70.2	31	3	US-09-933-767-628	Sequence 628, App
102	38	80.9	8	4	US-10-306-541-35	Sequence 35, Appl	175	33	70.2	31	4	US-10-004-860-628	Sequence 628, App
103	38	80.9	9	4	US-10-648-547-32	Sequence 32, Appl	176	33	70.2	31	4	US-10-023-282-628	Sequence 628, App
104	38	80.9	9	4	US-10-306-541-32	Sequence 32, Appl	177	33	70.2	70	4	US-10-437-963-117480	Sequence 117480, Appl
105	38	80.9	10	4	US-10-648-547-31	Sequence 31, Appl	178	33	70.2	74	4	US-10-437-963-150714	Sequence 150714, Appl
106	38	80.9	10	4	US-10-306-541-31	Sequence 31, Appl	179	33	70.2	85	4	US-10-425-115-199607	Sequence 199607, Appl
107	38	80.9	15	4	US-10-648-547-91	Sequence 91, Appl	180	33	70.2	107	4	US-10-425-115-297249	Sequence 297249, Appl
108	38	80.9	15	4	US-10-306-541-91	Sequence 91, Appl	181	33	70.2	115	3	US-09-933-767-627	Sequence 627, App
109	37	78.7	313	4	US-10-425-114-50664	Sequence 50664, A	182	33	70.2	115	4	US-10-004-860-627	Sequence 627, App
110	37	78.7	409	5	US-10-492-928A-137	Sequence 137, App	183	33	70.2	115	4	US-10-023-282-627	Sequence 627, App
111	37	78.7	409	5	US-10-492-928A-138	Sequence 138, App	184	33	70.2	117	5	US-10-974-440-44	Sequence 44, Appl
112	37	78.7	1000	4	US-10-296-115-1304	Sequence 1304, Ap	185	33	70.2	134	4	US-10-282-122A-47387	Sequence 47387, A
113	36	76.6	368	4	US-10-767-701-38116	Sequence 38116, A	186	33	70.2	159	4	US-10-156-761-10485	Sequence 10485, A
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115	36	76.6	477	4	US-10-369-493-7566	Sequence 7566, Ap	188	33	70.2	216	4	US-10-282-122A-55571	Sequence 55271, A
116	36	76.6	479	4	US-10-369-493-4807	Sequence 4807, Ap	189	33	70.2	217	4	US-10-282-122A-51585	Sequence 51585, A
117	36	76.6	516	4	US-10-437-963-188076	Sequence 188076, A	190	33	70.2	223	4	US-10-282-122A-61806	Sequence 61806, A
118	35	74.5	64	4	US-10-437-963-185949	Sequence 185949, A	191	33	70.2	228	4	US-10-282-122A-61806	Sequence 61806, A
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121	35	74.5	314	5	US-10-450-763-34409	Sequence 34409, A	194	33	70.2	230	4	US-10-282-122A-64602	Sequence 64602, A
122	35	74.5	346	4	US-10-080-170-591	Sequence 591, App	195	33	70.2	269	4	US-10-415-325-6	Sequence 6, Appl1
123	35	74.5	346	4	US-10-080-170-591	Sequence 591, App	196	33	70.2	269	4	US-10-415-325-7	Sequence 7, Appl1
124	35	74.5	346	4	US-10-468-356-591	Sequence 591, App	197	33	70.2	269	4	US-10-415-325-8	Sequence 8, Appl1
125	34	72.3	73	5	US-10-450-763-59625	Sequence 59625, A	198	33	70.2	272	4	US-10-282-122A-60802	Sequence 60802, A
126	34	72.3	107	4	US-10-767-701-55825	Sequence 55825, A	199	33	70.2	357	3	US-10-424-599-253747	Sequence 253747, A
127	34	72.3	138	4	US-10-103-048-1048	Sequence 1048, Ap	200	33	70.2	369	3	US-09-738-626-6990	Sequence 6990, Ap
128	34	72.3	138	4	US-10-109-048-1052	Sequence 1052, Ap	201	33	70.2	415	4	US-10-369-493-7790	Sequence 7790, Ap
129	34	72.3	157	4	US-10-103-313-484	Sequence 484, App	202	33	70.2	416	4	US-10-425-114-69002	Sequence 69002, A
130	34	72.3	164	4	US-10-437-963-143510	Sequence 143510, A	203	33	70.2	428	4	US-10-156-761-13714	Sequence 13714, A
131	34	72.3	203	4	US-10-103-313-328	Sequence 328, App	204	33	70.2	466	4	US-10-369-493-12244	Sequence 12244, A
132	34	72.3	245	4	US-10-425-114-48541	Sequence 48541, A	205	33	70.2	472	4	US-10-369-493-12002	Sequence 12002, A
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134	34	72.3	294	5	US-10-936-626-132	Sequence 132, App	207	33	70.2	527	4	US-10-425-115-352431	Sequence 352431, A
135	34	72.3	294	5	US-10-936-061-132	Sequence 132, App	208	33	70.2	545	4	US-10-043-487-305	Sequence 305, App
136	34	72.3	332	4	US-10-318-906A-23	Sequence 23, Appl	209	33	70.2	597	5	US-10-370-715B-560	Sequence 560, App
137	34	72.3	332	4	US-10-319-236A-23	Sequence 23, Appl	210	33	70.2	617	4	US-10-369-493-1967	Sequence 1967, App
138	34	72.3	335	6	US-11-097-143-28554	Sequence 28554, A	211	33	70.2	720	6	US-11-097-143-32712	Sequence 32712, A
139	34	72.3	389	4	US-10-282-122A-51242	Sequence 51242, A	212	33	70.2	780	4	US-10-425-115-260055	Sequence 260055, A
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141	34	72.3	437	4	US-10-424-599-190068	Sequence 190068, A	214	33	70.2	1224	4	US-10-282-122A-68248	Sequence 68248, A
142	34	72.3	511	4	US-10-369-493-21825	Sequence 21825, A	215	33	70.2	2882	4	US-10-282-122A-69537	Sequence 69537, A
143	34	72.3	515	5	US-10-741-600-982	Sequence 982, App	216	33	69.1	14	4	US-10-648-547-66	Sequence 66, Appl
144	34	72.3	515	5	US-10-936-626-133	Sequence 133, App	217	33	69.1	14	4	US-10-648-547-88	Sequence 88, Appl
145	34	72.3	515	5	US-10-938-061-133	Sequence 133, App	218	33	69.1	14	4	US-10-306-541-66	Sequence 66, Appl
146	34	72.3	515	5	US-10-509-622-2	Sequence 2, Appl1	219	32.5	69.1	14	4	US-10-306-541-88	Sequence 88, Appl
147	34	72.3	564	3	US-09-878-722-245	Sequence 245, App	220	32.5	69.1	1628	4	US-10-306-541-88	Sequence 170587
148	34	72.3	564	3	US-09-999-248-14	Sequence 14, Appl	221	32	68.1	8	4	US-10-648-547-18	Sequence 18, Appl
149	34	72.3	564	4	US-09-904-456-245	Sequence 245, App	222	32	68.1	8	4	US-10-306-541-18	Sequence 18, Appl
150	34	72.3	564	4	US-10-157-031-176	Sequence 176, App	223	32	68.1	9	3	US-09-891-823-23	Sequence 23, Appl
151	34	72.3	564	4	US-10-318-906A-2	Sequence 2, Appl1	224	32	68.1	9	4	US-10-365-908-24	Sequence 24, Appl
152	34	72.3	564	4	US-10-319-236A-2	Sequence 2, Appl1	225	32	68.1	9	4	US-10-648-547-23	Sequence 23, Appl
153	34	72.3	564	4	US-10-618-839-2	Sequence 2, Appl1	226	32	68.1	9	4	US-10-306-541-23	Sequence 23, Appl
154	34	72.3	564	5	US-10-850-060-14	Sequence 14, Appl	227	32	68.1	9	5	US-10-871-138-24	Sequence 24, Appl
155	34	72.3	564	5	US-10-850-103-14	Sequence 14, Appl	228	32	68.1	10	4	US-10-648-547-25	Sequence 25, Appl
156	34	72.3	564	5	US-10-741-600-981	Sequence 981, App	229	32	68.1	10	4	US-10-306-541-25	Sequence 25, Appl
157	34	72.3	564	5	US-10-936-626-130	Sequence 130, App	230	32	68.1	20	4	US-10-432-465-46	Sequence 46, Appl
158	34	72.3	564	5	US-10-936-626-131	Sequence 131, App	231	32	68.1	20	5	US-10-890-526-71	Sequence 71, Appl
159	34	72.3	564	5	US-10-938-061-130	Sequence 130, App	232	32	68.1	20	5	US-10-690-276-589	Sequence 589, App
160	34	72.3	564	5	US-10-938-061-131	Sequence 131, App	233	32	68.1	20	6	US-11-075-234-561	Sequence 561, App
161	34	72.3	564	5	US-10-850-102-14	Sequence 14, Appl	234	32	68.1	50	5	US-10-690-276-594	Sequence 594, App
162	34	72.3	603	5	US-10-741-600-980	Sequence 980, App	235	32	68.1	63	4	US-10-425-115-128028	Sequence 128028, A
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164	34	72.3	685	4	US-10-187-267A-61	Sequence 61, Appl	237	32	68.1	80	4	US-10-454-599-189064	Sequence 189064, A
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166	34	72.3	903	5	US-10-733-923-23186	Sequence 23186, A	239	32	68.1	99	4	US-10-425-115-112077	Sequence 112077, A
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168	34	72.3	1493	4	US-10-607-095-20	Sequence 20, Appl	241	32	68.1	108	4	US-10-432-422-190	Sequence 190, App
169	34	72.3	1668	4	US-10-094-886-168	Sequence 168, App	242	32	68.1	112	4	US-10-437-963-126190	Sequence 126190, App
170	34	72.3	1679	4	US-10-094-886-170	Sequence 170, App	243	32	68.1	146	4	US-10-429-160-16	Sequence 16, Appl
171	34	72.3	1721	4	US-10-094-886-166	Sequence 166, App	244	32	68.1	146	6	US-11-013-546-5	Sequence 5, Appl1
172	34	72.3	4342	3	US-09-815-242-5107	Sequence 5107, Ap	245	32	68.1	166	5	US-10-450-763-60512	Sequence 60512, A
173	34	72.3	4342	4	US-10-283-122A-43424	Sequence 43424, A	246	32	68.1	167	4	US-10-425-115-329949	Sequence 329949, A

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249	32	68.1	218	4	US-10-767-701-55921	Sequence 55921, A	322	31	66.0	71	3	US-09-855-604-867	Sequence 867, App
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251	32	68.1	237	4	US-10-080-170-500	Sequence 500, App	324	31	66.0	72	5	US-10-789-102-352	Sequence 352, App
252	32	68.1	237	4	US-10-468-356-500	Sequence 588, App	325	31	66.0	72	6	US-11-021-949-100	Sequence 100, App
253	32	68.1	241	3	US-09-833-245-585	Sequence 588, App	326	31	66.0	73	4	US-10-425-115-199066	Sequence 199066,
254	32	68.1	241	3	US-09-833-245-586	Sequence 588, App	327	31	66.0	73	3	US-09-864-761-35073	Sequence 35073, A
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256	32	68.1	294	4	US-10-304-928-24	Sequence 24, App1	329	31	66.0	79	4	US-10-424-599-203201	Sequence 203201,
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265	32	68.1	320	4	US-10-437-963-1397	Sequence 120227,	338	31	66.0	137	4	US-10-078-770-60	Sequence 60, App1
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273	32	68.1	361	4	US-10-411-120-68	Sequence 68, App1	346	31	66.0	185	4	US-10-437-963-132480	Sequence 132480,
274	32	68.1	363	4	US-10-259-165-238	Sequence 238, App	347	31	66.0	208	4	US-10-425-114-41965	Sequence 41965, A
275	32	68.1	365	4	US-10-351-334-332	Sequence 332, App	348	31	66.0	219	4	US-10-437-963-132223	Sequence 132223,
276	32	68.1	408	4	US-10-389-647-662	Sequence 662, App	349	31	66.0	230	4	US-10-425-115-207363	Sequence 207363,
277	32	68.1	419	4	US-10-276-774-2300	Sequence 2300, App	350	31	66.0	241	4	US-10-424-599-241221	Sequence 241221,
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279	32	68.1	443	4	US-10-156-761-13401	Sequence 13401, A	352	31	66.0	246	4	US-10-424-599-142957	Sequence 142957,
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283	32	68.1	475	3	US-10-299-642-24	Sequence 24, App1	356	31	66.0	253	4	US-10-425-115-224010	Sequence 224010,
284	32	68.1	499	5	US-10-332-923-1917	Sequence 1917, App	357	31	66.0	259	4	US-10-437-963-185972	Sequence 185972, A
285	32	68.1	509	5	US-10-492-032-31	Sequence 31, App1	358	31	66.0	261	4	US-10-437-963-185972	Sequence 185972, A
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287	32	68.1	542	4	US-10-411-120-96	Sequence 96, App1	360	31	66.0	262	4	US-10-798-512-159	Sequence 512, App
288	32	68.1	542	4	US-10-351-334-323	Sequence 323, App	361	31	66.0	264	4	US-10-424-599-269672	Sequence 269672,
289	32	68.1	548	4	US-10-369-493-540	Sequence 540, App	362	31	66.0	266	4	US-10-424-599-163366	Sequence 163366,
290	32	68.1	583	4	US-10-408-765A-1900	Sequence 1900, App	363	31	66.0	267	4	US-10-424-599-163366	Sequence 163366,
291	32	68.1	593	4	US-10-369-493-15802	Sequence 15802, A	364	31	66.0	283	4	US-10-424-599-163366	Sequence 163366,
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293	32	68.1	593	5	US-10-450-763-46394	Sequence 46394, A	366	31	66.0	285	4	US-10-424-599-163366	Sequence 163366,
294	32	68.1	601	5	US-10-732-923-22313	Sequence 22313, A	367	31	66.0	286	4	US-10-424-599-163366	Sequence 163366,
295	32	68.1	612	5	US-10-650-811A-191	Sequence 191, App	368	31	66.0	286	4	US-10-424-599-163366	Sequence 163366,
296	32	68.1	629	5	US-10-650-811A-191	Sequence 191, App	369	31	66.0	289	5	US-10-972-963-117	Sequence 117, App
297	32	68.1	631	5	US-10-450-763-52532	Sequence 52532, A	370	31	66.0	297	4	US-10-425-115-309083	Sequence 309083,
298	32	68.1	637	4	US-10-108-260A-4343	Sequence 4343, App	371	31	66.0	302	6	US-11-097-143-15817	Sequence 15817, A
299	32	68.1	808	4	US-10-104-047-2654	Sequence 2654, App	372	31	66.0	309	4	US-10-425-114-51817	Sequence 51817, A
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302	32	68.1	849	4	US-10-369-493-8909	Sequence 8909, App	375	31	66.0	326	4	US-10-425-114-48392	Sequence 48392, A
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304	32	68.1	920	4	US-10-366-055A-26	Sequence 26, App1	377	31	66.0	345	4	US-10-425-115-282958	Sequence 282958,
305	32	68.1	985	6	US-11-097-143-4434	Sequence 1957, App	378	31	66.0	347	4	US-10-437-963-187894	Sequence 187894,
306	32	68.1	1016	4	US-10-408-765A-1957	Sequence 1957, App	379	31	66.0	348	3	US-09-009-899-6	Sequence 6, App1
307	32	68.1	1016	5	US-10-852-335A-164	Sequence 164, App	380	31	66.0	348	4	US-10-425-114-51298	Sequence 51298, A
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309	32	68.1	1033	5	US-10-450-763-59294	Sequence 59294, A	382	31	66.0	348	4	US-10-425-114-51298	Sequence 51298, A
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312	32	68.1	1154	4	US-10-112-944-307	Sequence 307, App	385	31	66.0	350	4	US-10-425-114-61945	Sequence 61945, A
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315	32	68.1	12124	4	US-10-389-647-497	Sequence 497, App	388	31	66.0	356	4	US-10-424-599-181075	Sequence 181075,
316	32	68.1	2669	4	US-10-016-248-4	Sequence 4, App1	389	31	66.0	367	4	US-10-425-114-66128	Sequence 66128, A
317	32	68.1	3104	4	US-10-016-248-2	Sequence 2, App1	390	31	66.0	367	4	US-10-425-114-66128	Sequence 66128, A
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396	31	66.0	381	5	US-10-618-281-13	Sequence 13, Appl
397	31	66.0	383	4	US-10-425-114-41554	Sequence 41554, A
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399	31	66.0	391	3	US-09-764-861-37	Sequence 37, Appl
400	31	66.0	391	3	US-10-103-313-318	Sequence 318, App
401	31	66.0	391	4	US-10-115-928-37	Sequence 37, Appl
402	31	66.0	391	4	US-10-282-122A-7882	Sequence 47882, A
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404	31	66.0	401	4	US-10-050-704-97	Sequence 97, Appl
405	31	66.0	401	4	US-10-798-512-97	Sequence 97, Appl
406	31	66.0	404	4	US-10-408-765A-143	Sequence 143, App
407	31	66.0	407	4	US-10-369-493-8969	Sequence 8969, App
408	31	66.0	415	5	US-10-450-763-60509	Sequence 60509, App
409	31	66.0	418	4	US-10-282-122A-45730	Sequence 45730, A
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413	31	66.0	440	4	US-10-131-985-59	Sequence 59, Appl
414	31	66.0	440	5	US-10-901-417-59	Sequence 59, Appl
415	31	66.0	441	4	US-10-437-963-107710	Sequence 107710, A
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419	31	66.0	445	3	US-10-825-282-44	Sequence 44, Appli
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421	31	66.0	456	4	US-10-032-585-7905	Sequence 7905, App
422	31	66.0	462	4	US-10-755-889-102	Sequence 102, App
423	31	66.0	471	4	US-10-425-114-72596	Sequence 72596, A
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429	31	66.0	480	3	US-09-410-194-11	Sequence 17, Appl
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432	31	66.0	480	3	US-10-713-208-2	Sequence 2, Appli
433	31	66.0	480	5	US-10-849-901-2	Sequence 11, Appl
434	31	66.0	480	5	US-10-832-218-11	Sequence 11, Appl
435	31	66.0	480	5	US-10-832-218-17	Sequence 17, Appl
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437	31	66.0	481	5	US-10-719-993-784	Sequence 784, App
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441	31	66.0	499	4	US-10-318-906A-42	Sequence 42, Appl
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443	31	66.0	514	4	US-10-183-687-248	Sequence 248, App
444	31	66.0	514	5	US-10-998-525-12	Sequence 12, Appl
445	31	66.0	533	4	US-10-087-192-1458	Sequence 1458, App
446	31	66.0	533	4	US-10-156-761-13934	Sequence 13934, A
447	31	66.0	562	4	US-10-133-797-7	Sequence 7, Appli
448	31	66.0	563	4	US-10-318-906A-21	Sequence 21, Appl
449	31	66.0	563	4	US-10-319-236A-21	Sequence 21, Appl
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451	31	66.0	582	5	US-10-473-127-1414	Sequence 1414, App
452	31	66.0	629	4	US-10-384-919-2	Sequence 2, Appli
453	31	66.0	644	4	US-10-437-963-129813	Sequence 129813, A
454	31	66.0	651	4	US-10-437-963-142944	Sequence 142944, A
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456	31	66.0	658	4	US-10-108-260A-4416	Sequence 4416, App
457	31	66.0	683	4	US-10-437-963-160585	Sequence 160585, A
458	31	66.0	686	4	US-10-297-022-27	Sequence 27, Appl
459	31	66.0	686	4	US-10-384-919-17	Sequence 17, Appl
460	31	66.0	691	4	US-10-072-012-104	Sequence 104, App
461	31	66.0	695	4	US-10-369-493-21448	Sequence 21448, A
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464	31	66.0	712	4	US-10-245-120-2	Sequence 2, Appli
465	31	66.0	712	5	US-10-473-127-1401	Sequence 1401, App
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467	31	66.0	712	5	US-10-473-127-1411	Sequence 1411, App
468	31	66.0	712	5	US-10-473-127-1413	Sequence 1413, App
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470	31	66.0	712	5	US-10-536-390-5	Sequence 5, Appli
471	31	66.0	739	5	US-10-473-127-1406	Sequence 1406, App
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473	31	66.0	750	3	US-09-876-773-4	Sequence 4, Appli
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475	31	66.0	750	4	US-10-308-279-44	Sequence 44, Appl
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478	31	66.0	750	5	US-10-473-127-1402	Sequence 1402, App
479	31	66.0	750	5	US-10-473-127-1403	Sequence 1403, App
480	31	66.0	750	5	US-10-473-127-1408	Sequence 1408, App
481	31	66.0	750	5	US-10-473-127-1410	Sequence 1410, App
482	31	66.0	750	5	US-10-473-127-1412	Sequence 1412, App
483	31	66.0	750	5	US-10-473-127-1415	Sequence 1415, App
484	31	66.0	750	5	US-10-473-127-1416	Sequence 1416, App
485	31	66.0	750	5	US-10-492-043-19	Sequence 19, Appl
486	31	66.0	750	5	US-10-639-617-4	Sequence 4, Appli
487	31	66.0	750	5	US-10-491-545A-55	Sequence 55, Appl
488	31	66.0	750	5	US-10-631-467-658	Sequence 658, App
489	31	66.0	757	4	US-10-359-493-16797	Sequence 16797, A
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491	31	66.0	786	5	US-10-473-127-1405	Sequence 1405, App
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493	31	66.0	798	5	US-10-505-486-50	Sequence 50, Appl
494	31	66.0	826	5	US-10-719-993-782	Sequence 782, App
495	31	66.0	832	4	US-10-408-765A-1776	Sequence 1776, App
496	31	66.0	863	4	US-10-282-122A-76464	Sequence 76464, A
497	31	66.0	863	5	US-10-732-923-18292	Sequence 18292, A
498	31	66.0	886	4	US-10-408-765A-2260	Sequence 2260, App
499	31	66.0	903	5	US-10-416-456A-23	Sequence 23, Appl
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502	31	66.0	1000	5	US-10-719-993-779	Sequence 779, App
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506	31	66.0	1266	4	US-10-367-094-85	Sequence 85, Appl
507	31	66.0	1281	4	US-10-367-094-87	Sequence 87, Appl
508	31	66.0	1307	4	US-10-437-963-126652	Sequence 126652, A
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510	31	66.0	1388	5	US-10-719-993-780	Sequence 780, App
511	31	66.0	1388	5	US-10-719-993-783	Sequence 783, App
512	31	66.0	1413	6	US-11-097-143-9363	Sequence 9363, App
513	31	66.0	1424	6	US-11-097-143-9354	Sequence 9354, App
514	31	66.0	1428	6	US-10-437-963-103290	Sequence 103290, A
515	31	66.0	1456	6	US-11-097-143-7811	Sequence 2811, App
516	31	66.0	1457	4	US-10-337-288-2	Sequence 2, Appli
517	31	66.0	1457	4	US-10-607-095-18	Sequence 18, Appl
518	31	66.0	1482	3	US-09-940-3168-21	Sequence 21, Appl
519	31	66.0	1488	3	US-09-940-3168-17	Sequence 17, Appl
520	31	66.0	1509	3	US-09-940-3168-13	Sequence 13, Appl
521	31	66.0	1517	3	US-09-940-3168-23	Sequence 23, Appl
522	31	66.0	1602	5	US-10-492-634-97	Sequence 97, Appl
523	31	66.0	1679	5	US-10-357-094-89	Sequence 89, Appl
524	31	66.0	1685	4	US-10-450-763-35128	Sequence 35128, App
525	31	66.0	1693	5	US-10-359-493-5832	Sequence 5832, App
526	31	66.0	1744	4	US-10-359-493-5832	Sequence 5832, App
527	31	66.0	1763	6	US-11-097-143-74306	Sequence 24306, A
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529	31	66.0	1896	3	US-09-964-956-13	Sequence 13, Appl
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532	31	66.0	4127	5	US-10-492-634-3	Sequence 3, Appli
533	31	66.0	6291	4	US-10-329-079-41	Sequence 41, Appl
534	31	66.0	6396	3	US-09-940-3168-72	Sequence 72, Appl
535	30	63.8	20	4	US-10-776-013-337	Sequence 337, App
536	30	63.8	34	4	US-10-424-599-23750	Sequence 23750, A
537	30	63.8	43	4	US-10-411-224-175	Sequence 175, App
538	30	63.8	43	4	US-10-047-021-175	Sequence 175, App

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542	30	63.8	62	3	US-09-764-877-1735	Sequence 1735, Ap	615	30	63.8	266	4	US-10-437-963-102773	Sequence 102773, A
543	30	63.8	62	4	US-10-242-515-1735	Sequence 1735, Ap	616	30	63.8	269	4	US-10-425-114-17170	Sequence 77170, A
544	30	63.8	73	4	US-10-437-963-133560	Sequence 133560, A	617	30	63.8	271	4	US-10-425-114-64439	Sequence 64439, A
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554	30	63.8	120	4	US-10-437-963-182663	Sequence 182663, A	627	30	63.8	295	3	US-10-425-114-43244	Sequence 43244, A
555	30	63.8	120	4	US-10-781-014-396	Sequence 396, App	628	30	63.8	295	5	US-10-721-922A-456	Sequence 456, App
556	30	63.8	126	4	US-10-425-115-302789	Sequence 302789, A	629	30	63.8	295	5	US-10-721-922A-458	Sequence 44283, A
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558	30	63.8	137	4	US-10-767-701-36486	Sequence 36486, A	631	30	63.8	299	3	US-09-738-626-5009	Sequence 5009, Ap
559	30	63.8	140	4	US-10-424-599-270338	Sequence 270338, A	632	30	63.8	307	3	US-10-188-166-128	Sequence 18, App1
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561	30	63.8	143	4	US-10-437-963-154130	Sequence 154130, A	634	30	63.8	313	4	US-10-425-114-50170	Sequence 50170, A
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563	30	63.8	145	5	US-10-970-713-148	Sequence 148, App	636	30	63.8	318	4	US-10-238-075-549	Sequence 549, App
564	30	63.8	146	4	US-10-264-049-3599	Sequence 3599, Ap	637	30	63.8	326	4	US-10-425-114-64515	Sequence 64515, A
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571	30	63.8	172	4	US-10-282-122A-73097	Sequence 73097, A	644	30	63.8	332	4	US-10-160-539-16	Sequence 16, App1
572	30	63.8	178	4	US-10-437-963-153504	Sequence 153504, A	645	30	63.8	332	5	US-10-468-828-16	Sequence 16, App1
573	30	63.8	182	4	US-10-411-224-174	Sequence 174, App	646	30	63.8	332	5	US-10-846-335-16	Sequence 16, App1
574	30	63.8	182	4	US-10-047-021-174	Sequence 174, App	647	30	63.8	332	6	US-11-097-143-18975	Sequence 18975, A
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576	30	63.8	186	4	US-10-425-114-65512	Sequence 65512, A	649	30	63.8	333	4	US-10-072-012-742	Sequence 742, App
577	30	63.8	189	6	US-11-097-143-29700	Sequence 29700, A	650	30	63.8	333	4	US-10-072-012-743	Sequence 743, App
578	30	63.8	191	4	US-10-264-049-3280	Sequence 3280, Ap	651	30	63.8	333	4	US-10-072-012-746	Sequence 746, App
579	30	63.8	194	4	US-10-104-047-3410	Sequence 3410, Ap	652	30	63.8	333	4	US-10-072-012-747	Sequence 747, App
580	30	63.8	198	4	US-10-156-761-7808	Sequence 7808, Ap	653	30	63.8	333	4	US-10-072-012-748	Sequence 748, App
581	30	63.8	205	4	US-10-408-765A-2131	Sequence 2131, Ap	654	30	63.8	333	4	US-10-148-641A-4	Sequence 4, App1
582	30	63.8	205	4	US-10-437-963-176919	Sequence 176919, A	655	30	63.8	333	5	US-10-869-630-4	Sequence 4, App1
583	30	63.8	206	4	US-10-369-493-3975	Sequence 3975, Ap	656	30	63.8	333	5	US-10-869-630-6	Sequence 6, App1
584	30	63.8	209	3	US-09-738-626-5898	Sequence 5898, Ap	657	30	63.8	333	5	US-10-869-630-5	Sequence 5, App1
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586	30	63.8	209	5	US-10-721-922A-202	Sequence 202, App	659	30	63.8	333	5	US-10-883-760-61	Sequence 61, App1
587	30	63.8	214	5	US-10-719-993-559	Sequence 559, App	660	30	63.8	333	5	US-10-883-760-62	Sequence 62, App1
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589	30	63.8	216	4	US-10-282-122A-55405	Sequence 55405, A	662	30	63.8	335	4	US-10-170-385-253	Sequence 253, App
590	30	63.8	220	4	US-10-289-762-607	Sequence 607, App	663	30	63.8	335	4	US-10-072-012-739	Sequence 739, App
591	30	63.8	220	4	US-10-767-701-32051	Sequence 32051, A	664	30	63.8	335	4	US-10-072-012-740	Sequence 740, App
592	30	63.8	224	4	US-10-282-122A-76815	Sequence 76815, A	665	30	63.8	335	4	US-10-072-012-745	Sequence 745, App
593	30	63.8	227	4	US-10-282-122A-43157	Sequence 43157, A	666	30	63.8	335	4	US-10-072-012-745	Sequence 745, App
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596	30	63.8	228	4	US-10-282-122A-44511	Sequence 44511, A	669	30	63.8	335	4	US-10-741-601-330	Sequence 330, App
597	30	63.8	229	4	US-10-282-122A-66458	Sequence 66458, A	670	30	63.8	335	4	US-10-425-115-267813	Sequence 267813, A
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608	30	63.8	252	4	US-10-425-115-229086	Sequence 229086, A	681	30	63.8	343	3	US-10-184-426-2	Sequence 2, App11
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611	30	63.8	262	4	US-10-468-356-459	Sequence 459, App	684	30	63.8	348	4	US-10-087-192-603	Sequence 603, App

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712	30	63.8	424	5	US-10-425-115-293105	Sequence 293105, A	785	30	63.8	845	4	US-10-437-963-165027	Sequence 165027, A
713	30	63.8	425	4	US-10-425-114-68920	Sequence 68920, A	786	30	63.8	910	4	US-10-156-761-7728	Sequence 7728, Ap
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749	30	63.8	673	4	US-10-223-084-48	Sequence 48, Appl1	822	30	63.8	26926	5	US-10-656-873A-2	Sequence 2, Appl1
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755	30	63.8	673	4	US-10-223-081-48	Sequence 48, Appl1	828	29	61.7	20	5	US-10-775-972-493	Sequence 493, App
756	30	63.8	673	4	US-10-223-082-48	Sequence 48, Appl1	829	29	61.7	20	5	US-10-922-124-493	Sequence 493, App
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833	29	61.7	29	5	US-10-877-952-80	Sequence 80, Appl	906	29	61.7	134	4	US-10-468-356-225	Sequence 225, App
834	29	61.7	29	5	US-10-877-952-134	Sequence 124, App	907	29	61.7	135	4	US-10-080-170-494	Sequence 49, App
835	29	61.7	30	4	US-10-296-734-1400	Sequence 1400, App	908	29	61.7	135	4	US-10-295-027-388	Sequence 388, App
836	29	61.7	30	4	US-10-296-734-1302	Sequence 1432, App	909	29	61.7	135	4	US-10-188-832-141	Sequence 141, App
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850	29	61.7	68	4	US-10-425-115-222744	Sequence 222744, A	923	29	61.7	146	4	US-10-767-701-54485	Sequence 52432, A
851	29	61.7	70	4	US-10-424-599-179597	Sequence 179597, A	924	29	61.7	147	4	US-10-767-701-52132	Sequence 52852, A
852	29	61.7	72	4	US-10-156-761-8389	Sequence 8389, App	925	29	61.7	150	4	US-10-282-122A-62416	Sequence 62416, A
853	29	61.7	72	4	US-10-437-963-181167	Sequence 181167, A	926	29	61.7	151	4	US-10-282-122A-64879	Sequence 64879, A
854	29	61.7	74	3	US-09-853-604-409	Sequence 409, App	927	29	61.7	151	4	US-10-425-115-320131	Sequence 320131, A
855	29	61.7	74	3	US-09-855-604-428	Sequence 428, App	928	29	61.7	151	4	US-10-425-115-320131	Sequence 8807, App
856	29	61.7	74	3	US-09-855-604-409	Sequence 409, App	929	29	61.7	152	4	US-10-156-761-8807	Sequence 8807, App
857	29	61.7	74	3	US-09-855-604-428	Sequence 428, App	930	29	61.7	152	4	US-10-156-761-8807	Sequence 16, Appl
858	29	61.7	75	4	US-10-425-115-221860	Sequence 221860, A	931	29	61.7	152	5	US-10-500-668-16	Sequence 16, Appl
859	29	61.7	76	4	US-10-425-115-350611	Sequence 350611, A	932	29	61.7	153	5	US-10-240-224B-1	Sequence 1, Appl
860	29	61.7	77	4	US-10-425-115-247460	Sequence 247460, A	933	29	61.7	153	4	US-10-282-122A-63692	Sequence 63692, A
861	29	61.7	79	4	US-10-424-599-25585	Sequence 25585, A	934	29	61.7	153	4	US-10-425-115-343366	Sequence 343366, A
862	29	61.7	80	4	US-10-424-599-185862	Sequence 185862, A	935	29	61.7	154	4	US-10-425-115-217875	Sequence 217875, A
863	29	61.7	86	4	US-10-424-599-145934	Sequence 145934, A	936	29	61.7	156	4	US-10-424-599-223739	Sequence 223739, A
864	29	61.7	88	4	US-10-424-599-170301	Sequence 170301, A	937	29	61.7	156	4	US-10-830-792A-17	Sequence 17, Appl
865	29	61.7	89	4	US-10-437-963-152025	Sequence 152025, A	938	29	61.7	156	5	US-10-500-668-16	Sequence 24, Appl
866	29	61.7	90	4	US-10-767-701-34273	Sequence 34273, A	939	29	61.7	156	4	US-10-240-224B-2	Sequence 2, Appl
867	29	61.7	91	4	US-10-425-115-334621	Sequence 334621, A	940	29	61.7	157	4	US-10-424-599-253243	Sequence 253243, A
868	29	61.7	92	4	US-10-437-963-120530	Sequence 120530, A	941	29	61.7	157	4	US-10-425-115-192272	Sequence 192239, A
869	29	61.7	96	4	US-10-425-115-309261	Sequence 309261, A	942	29	61.7	158	4	US-10-450-763-53072	Sequence 53072, A
870	29	61.7	97	4	US-10-425-115-235036	Sequence 235036, A	943	29	61.7	158	4	US-10-767-701-46516	Sequence 46516, A
871	29	61.7	101	4	US-10-67-701-59487	Sequence 59487, A	944	29	61.7	162	4	US-10-104-047-3106	Sequence 8106, App
872	29	61.7	103	4	US-10-437-963-176156	Sequence 176156, A	945	29	61.7	162	4	US-10-425-114-68231	Sequence 68231, A
873	29	61.7	103	4	US-10-425-115-287457	Sequence 287457, A	946	29	61.7	164	4	US-10-425-115-241478	Sequence 241478, A
874	29	61.7	105	4	US-10-437-963-125483	Sequence 125483, A	947	29	61.7	164	4	US-10-282-122A-61993	Sequence 61993, A
875	29	61.7	106	4	US-10-437-963-120599	Sequence 120599, A	948	29	61.7	166	4	US-10-424-599-248807	Sequence 248807, A
876	29	61.7	106	4	US-10-437-963-154563	Sequence 154563, A	949	29	61.7	167	4	US-10-424-599-248807	Sequence 71884, A
877	29	61.7	106	4	US-10-425-115-265008	Sequence 265008, A	950	29	61.7	167	4	US-10-425-114-71854	Sequence 327773, A
878	29	61.7	107	3	US-09-764-891-4241	Sequence 4241, App	951	29	61.7	167	4	US-10-156-761-12930	Sequence 12930, A
879	29	61.7	107	4	US-10-767-701-62156	Sequence 62156, A	952	29	61.7	175	4	US-10-264-049-4045	Sequence 4045, App
880	29	61.7	108	4	US-10-437-963-176982	Sequence 176982, A	953	29	61.7	176	4	US-10-437-963-151009	Sequence 151009, A
881	29	61.7	109	4	US-10-424-599-243644	Sequence 243644, A	954	29	61.7	177	4	US-10-425-115-249488	Sequence 249488, A
882	29	61.7	109	4	US-10-425-115-297559	Sequence 297559, A	955	29	61.7	179	4	US-10-437-963-112488	Sequence 112488, A
883	29	61.7	110	4	US-10-425-115-226917	Sequence 226917, A	956	29	61.7	179	5	US-10-482-022-202	Sequence 202, App
884	29	61.7	110	5	US-10-450-763-46422	Sequence 46422, A	957	29	61.7	180	3	US-09-751-799-8	Sequence 8, Appl
885	29	61.7	112	4	US-10-425-115-340151	Sequence 340151, A	958	29	61.7	180	3	US-10-849-602-30	Sequence 30, Appl
886	29	61.7	113	4	US-10-425-115-319840	Sequence 319840, A	959	29	61.7	180	4	US-10-023-182-8	Sequence 28, Appl
887	29	61.7	115	4	US-10-278-087A-38	Sequence 38, Appl	960	29	61.7	180	4	US-10-146-473-69	Sequence 69, Appl
888	29	61.7	117	5	US-10-810-352-45	Sequence 45, Appl	961	29	61.7	180	4	US-10-102-066-3	Sequence 71, Appl
889	29	61.7	118	4	US-10-437-963-114218	Sequence 114218, A	962	29	61.7	180	4	US-10-117-937-74	Sequence 74, Appl
890	29	61.7	122	4	US-10-425-115-294488	Sequence 294488, A	963	29	61.7	180	4	US-10-117-937-75	Sequence 75, Appl
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892	29	61.7	123	5	US-10-732-923-9036	Sequence 9036, App	965	29	61.7	180	4	US-10-295-027-366	Sequence 366, App
893	29	61.7	124	5	US-10-443-622-111	Sequence 111, App	966	29	61.7	180	4	US-10-296-734-832	Sequence 832, App
894	29	61.7	124	5	US-10-732-923-9037	Sequence 9037, App	967	29	61.7	180	4	US-10-296-734-832	Sequence 834, App
895	29	61.7	125	4	US-10-767-701-39599	Sequence 39599, A	968	29	61.7	180	4	US-10-188-832-139	Sequence 139, App
896	29	61.7	125	4	US-10-767-701-47234	Sequence 47234, A	969	29	61.7	180	4	US-10-777-053-11	Sequence 11, Appl
897	29	61.7	127	4	US-10-767-701-60933	Sequence 60933, A	970	29	61.7	180	4	US-10-751-088-15	Sequence 15, Appl
898	29	61.7	128	4	US-10-767-701-37054	Sequence 37054, A	971	29	61.7	180	4	US-10-468-402-4	Sequence 4, Appl
899	29	61.7	129	4	US-10-437-963-204383	Sequence 204383, A	972	29	61.7	180	4	US-10-657-022-74	Sequence 74, Appl
900	29	61.7	129	4	US-10-767-701-47233	Sequence 47233, A	973	29	61.7	180	4	US-10-657-022-75	Sequence 75, Appl
901	29	61.7	129	5	US-10-450-763-54053	Sequence 54053, A	974	29	61.7	180	4	US-10-837-211-11	Sequence 11, Appl
902	29	61.7	133	4	US-10-424-599-203148	Sequence 203148, A	975	29	61.7	180	5	US-10-877-373-7	Sequence 7, Appl
903	29	61.7	133	4	US-10-437-963-111922	Sequence 111922, A	976	29	61.7	180	5	US-10-877-373-9	Sequence 9, Appl

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978 29 61.7 180 5 US-10-871-708-7 Sequence 7, Appli
979 29 61.7 180 5 US-10-895-523-3 Sequence 3, Appli
980 29 61.7 180 5 US-10-182-506A-3 Sequence 3, Appli
981 29 61.7 180 5 US-10-756-149-5024 Sequence 504, Ap
982 29 61.7 180 6 US-11-067-064-74 Sequence 74, Appl
983 29 61.7 180 6 US-11-067-064-75 Sequence 75, Appl
984 29 61.7 180 6 US-11-067-159-74 Sequence 75, Appl
985 29 61.7 180 6 US-11-067-159-75 Sequence 75, Appl
986 29 61.7 184 3 US-10-450-763-30432 Sequence 30432, A
987 29 61.7 186 3 US-09-775-964-6 Sequence 6, Appli
988 29 61.7 186 4 US-10-424-599-257636 Sequence 257636, A
989 29 61.7 189 4 US-10-425-114-47464 Sequence 47464, A
990 29 61.7 192 4 US-10-424-599-246808 Sequence 246808,
991 29 61.7 192 4 US-10-424-599-246811 Sequence 246811,
992 29 61.7 193 4 US-10-424-599-248808 Sequence 248808,
993 29 61.7 195 4 US-10-437-963-202202 Sequence 202202,
994 29 61.7 196 4 US-10-425-115-253560 Sequence 253560,
995 29 61.7 196 5 US-10-767-701-61045 Sequence 61045, A
996 29 61.7 196 5 US-10-450-763-35109 Sequence 35109, A
997 29 61.7 202 4 US-10-767-701-43662 Sequence 43662, A
998 29 61.7 202 4 US-10-425-115-356706 Sequence 356706,
999 29 61.7 204 4 US-10-425-114-45996 Sequence 45996, A
1000 29 61.7 204 4 US-10-468-161-31 Sequence 31, Appl
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ALIGNMENTS

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RESULT 1
US-10-239-313A-689
; Sequence 689, Application US/10239313A
; Publication No. US20030175285A1
; GENERAL INFORMATION:
; APPLICANT: KLINGUER - HAMOUR, Christine
; APPLICANT: CORVAIA, Nathalie
; APPLICANT: BECK, Alain
; APPLICANT: GOETSCH, Liliane
; TITLE OF INVENTION: MOLECULE OF PHARMACEUTICAL INTEREST COMPRISING AT ITS
; TITLE OF INVENTION: N-TERMINAL A GLUTAMIC ACID OR A GLUTAMINE IN THE FORM
; FILE REFERENCE: 343 727 - US
; CURRENT APPLICATION NUMBER: US/10/239,313A
; CURRENT FILING DATE: 2002-09-19
; PRIOR APPLICATION NUMBER: FR 00/03711
; PRIOR FILING DATE: 2000-03-23
; PRIOR APPLICATION NUMBER: PCT 01/70772
; PRIOR FILING DATE: 2001-03-22
; NUMBER OF SEQ ID NOS: 697
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 689
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-10-239-313A-689

Query Match 100.0%; Score 47; DB 4; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.7e+06;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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FILE REFERENCE: 12354/9
; CURRENT APPLICATION NUMBER: US/10/648,547
; CURRENT FILING DATE: 2003-08-25
; PRIOR APPLICATION NUMBER: 10/306,541
; PRIOR FILING DATE: 11-25-2002
; PRIOR APPLICATION NUMBER: 60/333,249
; PRIOR FILING DATE: 11-23-2001
; NUMBER OF SEQ ID NOS: 108
; SOFTWARE: WordPerfect 8.0 for Windows
; SEQ ID NO 20
; LENGTH: 9
; TYPE: PRT
; ORGANISM: human papillomavirus
US-10-648-547-20

Query Match 100.0%; Score 47; DB 4; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.7e+06;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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RESULT 3
US-10-306-541-20
; Sequence 20, Application US/10306541
; Publication No. US20040171081A1
; GENERAL INFORMATION:
; APPLICANT: Mittelman, Abraham
; APPLICANT: Kanduc, Darja
; TITLE OF INVENTION: Improved Antigens
; FILE REFERENCE: 12354/4
; CURRENT APPLICATION NUMBER: US/10/306,541
; CURRENT FILING DATE: 2003-11-25
; PRIOR APPLICATION NUMBER: 60/333,249
; PRIOR FILING DATE: 2001-11-23
; NUMBER OF SEQ ID NOS: 108
; SOFTWARE: WordPerfect 8.0 for Windows
; SEQ ID NO 20
; LENGTH: 9
; TYPE: PRT
; ORGANISM: human papillomavirus
US-10-306-541-20

Query Match 100.0%; Score 47; DB 4; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.7e+06;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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RESULT 4
US-09-891-823-19
; Sequence 19, Application US/09891823
; Publication No. US20020110566A1
; GENERAL INFORMATION:
; APPLICANT: Neefe, John R.
; APPLICANT: Boux, Leslie J.
; APPLICANT: Winnett, Mark T.
; APPLICANT: Goldstone, Stephen E.
; APPLICANT: Siegel, Marvin
; TITLE OF INVENTION: HUMAN PAPILLOMA VIRUS TREATMENT
; FILE REFERENCE: 12071-003001
; CURRENT APPLICATION NUMBER: US/09/891,823
; CURRENT FILING DATE: 2001-10-19
; PRIOR APPLICATION NUMBER: US 60/214,202
; PRIOR FILING DATE: 2000-06-26
; NUMBER OF SEQ ID NOS: 140
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 19
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LENGTH: 10
TYPE: PRT
ORGANISM: Human papilloma virus
US-09-891-823-19

Query Match 100.0%; Score 47; DB 3; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.066;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 EIDGPAGQA 9
Db 2 EIDGPAGQA 10

RESULT 5
US-10-365-908-19

Sequence 19, Application US/10365908
Publication No. US20030170268A1
GENERAL INFORMATION:
APPLICANT: Neefe, John R.
APPLICANT: Boux, Leslie J.
APPLICANT: Winnett, Mark T.
APPLICANT: Goldstone, Stephen E.
APPLICANT: Siegel, Marvin
TITLE OF INVENTION: HUMAN PAPILLOMA VIRUS TREATMENT
FILE REFERENCE: 12071-003001
CURRENT APPLICATION NUMBER: US/10/365,908
CURRENT FILING DATE: 2003-02-13
PRIOR APPLICATION NUMBER: US/09/891,823
PRIOR FILING DATE: 2001-10-19
PRIOR APPLICATION NUMBER: US 60/214,202
PRIOR FILING DATE: 2000-06-26
NUMBER OF SEQ ID NOS: 140
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 19
LENGTH: 10
TYPE: PRT
ORGANISM: Human papilloma virus
US-10-365-908-19

Query Match 100.0%; Score 47; DB 4; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.066;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 EIDGPAGQA 9
Db 2 EIDGPAGQA 10

RESULT 6
US-10-648-547-24

Sequence 24, Application US/10648547
Publication No. US20040147044A1
GENERAL INFORMATION:
APPLICANT: Mitelman, Abraham
APPLICANT: Kanduc, Darja
TITLE OF INVENTION: Improved Antigens
FILE REFERENCE: 12354/9
CURRENT APPLICATION NUMBER: US/10/648,547
CURRENT FILING DATE: 2003-08-25
PRIOR APPLICATION NUMBER: 10/306,541
PRIOR FILING DATE: 11-25-2002
PRIOR APPLICATION NUMBER: 60/333,249
PRIOR FILING DATE: 11-23-2001
NUMBER OF SEQ ID NOS: 108
SOFTWARE: WordPerfect 8.0 for Windows
SEQ ID NO 24
LENGTH: 10
TYPE: PRT
ORGANISM: human papillomavirus
US-10-648-547-24

Query Match 100.0%; Score 47; DB 4; Length 10;

Best Local Similarity 100.0%; Pred. No. 0.066;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 EIDGPAGQA 9
Db 2 EIDGPAGQA 10

RESULT 7
US-10-648-547-29

Sequence 29, Application US/10648547
Publication No. US20040147044A1
GENERAL INFORMATION:
APPLICANT: Mitelman, Abraham
APPLICANT: Kanduc, Darja
TITLE OF INVENTION: Improved Antigens
FILE REFERENCE: 12354/9
CURRENT APPLICATION NUMBER: US/10/648,547
CURRENT FILING DATE: 2003-08-25
PRIOR APPLICATION NUMBER: 10/306,541
PRIOR FILING DATE: 11-25-2002
PRIOR APPLICATION NUMBER: 60/333,249
PRIOR FILING DATE: 11-23-2001
NUMBER OF SEQ ID NOS: 108
SOFTWARE: WordPerfect 8.0 for Windows
SEQ ID NO 29
LENGTH: 10
TYPE: PRT
ORGANISM: human papillomavirus
US-10-648-547-29

Query Match 100.0%; Score 47; DB 4; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.066;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 EIDGPAGQA 9
Db 1 EIDGPAGQA 9

RESULT 8
US-10-306-541-24

Sequence 24, Application US/10306541
Publication No. US20040171081A1
GENERAL INFORMATION:
APPLICANT: Mitelman, Abraham
APPLICANT: Kanduc, Darja
TITLE OF INVENTION: Improved Antigens
FILE REFERENCE: 12354/4
CURRENT APPLICATION NUMBER: US/10/306,541
CURRENT FILING DATE: 2003-11-25
PRIOR APPLICATION NUMBER: 60/333,249
PRIOR FILING DATE: 2001-11-23
NUMBER OF SEQ ID NOS: 108
SOFTWARE: WordPerfect 8.0 for Windows
SEQ ID NO 24
LENGTH: 10
TYPE: PRT
ORGANISM: human papillomavirus
US-10-306-541-24

Query Match 100.0%; Score 47; DB 4; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.066;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 EIDGPAGQA 9
Db 2 EIDGPAGQA 10

RESULT 9
US-10-306-541-29

Sequence 29, Application US/10306541

Publication No. US20040171081A1
GENERAL INFORMATION:
APPLICANT: Mitelman, Abraham
APPLICANT: Kanduc, Darja
TITLE OF INVENTION: Improved Antigens
FILE REFERENCE: 12354/4
CURRENT APPLICATION NUMBER: US/10/306,541
CURRENT FILING DATE: 2003-11-25
PRIOR APPLICATION NUMBER: 60/333,249
PRIOR FILING DATE: 2001-11-23
NUMBER OF SEQ ID NOS: 108
SOFTWARE: WordPerfect 8.0 for Windows
SEQ ID NO 29
LENGTH: 10
TYPE: PRT
ORGANISM: human papillomavirus
US-10-306-541-29

Query Match 100.0%; Score 47; DB 4; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.066;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 EIDGPAGQA 9
|||||
Db 1 EIDGPAGQA 9

RESULT 10
US-10-871-138-19
Sequence 19, Application US/10871138
Publication No. US2004023541A1
GENERAL INFORMATION:
APPLICANT: Neefe, John R.
APPLICANT: Boux, Leslie J.
APPLICANT: Wimet, Mark T.
APPLICANT: Goldstone, Stephen E.
APPLICANT: Siegel, Marvin
TITLE OF INVENTION: HUMAN PAPILLOMA VIRUS TREATMENT
FILE REFERENCE: 12071-003001
CURRENT APPLICATION NUMBER: US/10/871,138
CURRENT FILING DATE: 2004-06-18
PRIOR APPLICATION NUMBER: US/09/891,823
PRIOR FILING DATE: 2001-06-26
PRIOR APPLICATION NUMBER: US 60/214,202
PRIOR FILING DATE: 2000-06-26
NUMBER OF SEQ ID NOS: 140
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 19
LENGTH: 10
TYPE: PRT
ORGANISM: Human papilloma virus
US-10-871-138-19

Query Match 100.0%; Score 47; DB 5; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.066;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 EIDGPAGQA 9
|||||
Db 2 EIDGPAGQA 10

RESULT 11
US-10-648-547-39
Sequence 39, Application US/10648547
Publication No. US20040147044A1
GENERAL INFORMATION:
APPLICANT: Mitelman, Abraham
APPLICANT: Kanduc, Darja
TITLE OF INVENTION: Improved Antigens
FILE REFERENCE: 12354/9
CURRENT APPLICATION NUMBER: US/10/648,547
CURRENT FILING DATE: 2003-08-25

PRIOR APPLICATION NUMBER: 10/306,541
PRIOR FILING DATE: 11-25-2002
PRIOR APPLICATION NUMBER: 60/333,249
PRIOR FILING DATE: 11-23-2001
NUMBER OF SEQ ID NOS: 108
SOFTWARE: WordPerfect 8.0 for Windows
SEQ ID NO 39
LENGTH: 15
TYPE: PRT
ORGANISM: human papillomavirus
US-10-648-547-39

Query Match 100.0%; Score 47; DB 4; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.099;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 EIDGPAGQA 9
|||||
Db 6 EIDGPAGQA 14

RESULT 12
US-10-648-547-42
Sequence 42, Application US/10648547
Publication No. US20040147044A1
GENERAL INFORMATION:
APPLICANT: Mitelman, Abraham
APPLICANT: Kanduc, Darja
TITLE OF INVENTION: Improved Antigens
FILE REFERENCE: 12354/9
CURRENT APPLICATION NUMBER: US/10/648,547
CURRENT FILING DATE: 2003-08-25
PRIOR APPLICATION NUMBER: 10/306,541
PRIOR FILING DATE: 11-25-2002
PRIOR APPLICATION NUMBER: 60/333,249
PRIOR FILING DATE: 11-23-2001
NUMBER OF SEQ ID NOS: 108
SOFTWARE: WordPerfect 8.0 for Windows
SEQ ID NO 42
LENGTH: 15
TYPE: PRT
ORGANISM: human papillomavirus
US-10-648-547-42

Query Match 100.0%; Score 47; DB 4; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.099;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 EIDGPAGQA 9
|||||
Db 7 EIDGPAGQA 15

RESULT 13
US-10-648-547-73
Sequence 73, Application US/10648547
Publication No. US20040147044A1
GENERAL INFORMATION:
APPLICANT: Mitelman, Abraham
APPLICANT: Kanduc, Darja
TITLE OF INVENTION: Improved Antigens
FILE REFERENCE: 12354/9
CURRENT APPLICATION NUMBER: US/10/648,547
CURRENT FILING DATE: 2003-08-25
PRIOR APPLICATION NUMBER: 10/306,541
PRIOR FILING DATE: 11-25-2002
PRIOR APPLICATION NUMBER: 60/333,249
PRIOR FILING DATE: 11-23-2001
NUMBER OF SEQ ID NOS: 108
SOFTWARE: WordPerfect 8.0 for Windows
SEQ ID NO 73
LENGTH: 15
TYPE: PRT

ORGANISM: human papillomavirus
US-10-648-547-73

Query Match 100.0%; Score 47; DB 4; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.099;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 EIDGPAGQA 9
|||||
DB 5 EIDGPAGQA 13

RESULT 14
US-10-648-547-82
Sequence 82, Application US/10648547
Publication No. US20040147044A1

GENERAL INFORMATION:
APPLICANT: Mitelman, Abraham

APPLICANT: Kanduc, Darja

TITLE OF INVENTION: Improved Antigens

FILE REFERENCE: 12354/9

CURRENT APPLICATION NUMBER: US/10/648,547

CURRENT FILING DATE: 2003-08-25

PRIOR APPLICATION NUMBER: 10/306,541

PRIOR FILING DATE: 11-25-2002

PRIOR APPLICATION NUMBER: 60/333,249

PRIOR FILING DATE: 11-23-2001

NUMBER OF SEQ ID NOS: 108

SOFTWARE: WordPerfect 8.0 for Windows

SEQ ID NO 82

LENGTH: 15

TYPE: PRT

ORGANISM: human papillomavirus

US-10-648-547-82

Query Match 100.0%; Score 47; DB 4; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.099;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 EIDGPAGQA 9
|||||
DB 3 EIDGPAGQA 11

RESULT 15
US-10-306-541-39
Sequence 39, Application US/10306541
Publication No. US20040171081A1

GENERAL INFORMATION:
APPLICANT: Mitelman, Abraham

APPLICANT: Kanduc, Darja

TITLE OF INVENTION: Improved Antigens

FILE REFERENCE: 12354/4

CURRENT APPLICATION NUMBER: US/10/306,541

CURRENT FILING DATE: 2003-11-25

PRIOR APPLICATION NUMBER: 60/333,249

PRIOR FILING DATE: 2001-11-23

NUMBER OF SEQ ID NOS: 108

SOFTWARE: WordPerfect 8.0 for Windows

SEQ ID NO 39

LENGTH: 15

TYPE: PRT

ORGANISM: human papillomavirus

US-10-306-541-39

Query Match 100.0%; Score 47; DB 4; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.099;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 EIDGPAGQA 9
|||||
DB 6 EIDGPAGQA 14

RESULT 16
US-10-306-541-42
Sequence 42, Application US/10306541
Publication No. US20040171081A1

GENERAL INFORMATION:
APPLICANT: Mitelman, Abraham

APPLICANT: Kanduc, Darja

TITLE OF INVENTION: Improved Antigens

FILE REFERENCE: 12354/4

CURRENT APPLICATION NUMBER: US/10/306,541

CURRENT FILING DATE: 2003-11-25

PRIOR APPLICATION NUMBER: 60/333,249

PRIOR FILING DATE: 2001-11-23

NUMBER OF SEQ ID NOS: 108

SOFTWARE: WordPerfect 8.0 for Windows

SEQ ID NO 42

LENGTH: 15

TYPE: PRT

ORGANISM: human papillomavirus

US-10-306-541-42

Query Match 100.0%; Score 47; DB 4; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.099;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 EIDGPAGQA 9
|||||
DB 7 EIDGPAGQA 15

RESULT 17
US-10-306-541-73
Sequence 73, Application US/10306541
Publication No. US20040171081A1

GENERAL INFORMATION:
APPLICANT: Mitelman, Abraham

APPLICANT: Kanduc, Darja

TITLE OF INVENTION: Improved Antigens

FILE REFERENCE: 12354/4

CURRENT APPLICATION NUMBER: US/10/306,541

CURRENT FILING DATE: 2003-11-25

PRIOR APPLICATION NUMBER: 60/333,249

PRIOR FILING DATE: 2001-11-23

NUMBER OF SEQ ID NOS: 108

SOFTWARE: WordPerfect 8.0 for Windows

SEQ ID NO 73

LENGTH: 15

TYPE: PRT

ORGANISM: human papillomavirus

US-10-306-541-73

Query Match 100.0%; Score 47; DB 4; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.099;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 EIDGPAGQA 9
|||||
DB 5 EIDGPAGQA 13

RESULT 18
US-10-306-541-82
Sequence 82, Application US/10306541
Publication No. US20040171081A1

GENERAL INFORMATION:
APPLICANT: Mitelman, Abraham

APPLICANT: Kanduc, Darja

TITLE OF INVENTION: Improved Antigens

FILE REFERENCE: 12354/4

CURRENT APPLICATION NUMBER: US/10/306,541

CURRENT FILING DATE: 2003-11-25

PRIOR APPLICATION NUMBER: 60/333,249

PRIOR FILING DATE: 2001-11-23

NUMBER OF SEQ ID NOS: 108

SOFTWARE: WordPerfect 8.0 for Windows

SEQ ID NO 82

LENGTH: 15

TYPE: PRT

ORGANISM: human papillomavirus

US-10-306-541-82

```
; PRIOR FILING DATE: 2001-11-23
; NUMBER OF SEQ ID NOS: 108
; SOFTWARE: WordPerfect 8.0 for Windows
; SEQ ID NO: 82
; LENGTH: 15
; TYPE: PRT
; ORGANISM: human papillomavirus
US-10-306-541-82
```

```
Query Match          100.0%; Score 47; DB 4; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.099;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy      1 EIDGPAGQA 9
        |||||
Db      3 EIDGPAGQA 11
```

RESULT 19

```
US-10-432-465-47
; Sequence 47, Application US/10432465
; Publication No. US20040091479A1
; GENERAL INFORMATION:
; APPLICANT: Kaufmann, John
; APPLICANT: Kather, Angela
; APPLICANT: Schinz, Manuela
; TITLE OF INVENTION: T-Cell Epitopes of the Papillomavirus L1
; TITLE OF INVENTION: Procein and E7 Protein and Their Use in Diagnosis and
; FILE REFERENCE: 50125/077001
; CURRENT APPLICATION NUMBER: US/10/432,465
; CURRENT FILING DATE: 2003-12-10
; PRIOR APPLICATION NUMBER: PCT/EP01/14037
; PRIOR FILING DATE: 2001-11-30
; PRIOR APPLICATION NUMBER: DE 10059631.2
; PRIOR FILING DATE: 2000-12-01
; NUMBER OF SEQ ID NOS: 116
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO: 47
; LENGTH: 20
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-432-465-47
```

```
Query Match          100.0%; Score 47; DB 4; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.13;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy      1 EIDGPAGQA 9
        |||||
Db      4 EIDGPAGQA 12
```

RESULT 20

```
US-10-890-526-72
; Sequence 72, Application US/10890526
; Publication No. US20040258708A1
; GENERAL INFORMATION:
; APPLICANT: Jochmus, Ingrid
; APPLICANT: Nieland, John
; TITLE OF INVENTION: Cytotoxic T-Cell Epitopes of the
; TITLE OF INVENTION: Papilloma Virus L1-Protein and Use Thereof in Diagnosis and
; FILE REFERENCE: 50125/036001
; CURRENT APPLICATION NUMBER: US/10/890,526
; CURRENT FILING DATE: 2004-07-13
; PRIOR APPLICATION NUMBER: US/09/980,177
; PRIOR FILING DATE: 2002-05-02
; PRIOR APPLICATION NUMBER: PCT/EP00/05006
; PRIOR FILING DATE: 2000-05-31
; PRIOR APPLICATION NUMBER: DE 19925199.1
; PRIOR FILING DATE: 1999-06-01
```

```
; NUMBER OF SEQ ID NOS: 77
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO: 72
; LENGTH: 20
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-10-890-526-72
```

```
Query Match          100.0%; Score 47; DB 5; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.13;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy      1 EIDGPAGQA 9
        |||||
Db      4 EIDGPAGQA 12
```

RESULT 21

```
US-10-612-818-6
; Sequence 6, Application US/10612818
; Publication No. US20040110925A1
; GENERAL INFORMATION:
; APPLICANT: Impact Diagnostics
; APPLICANT: Impact Diagnostics
; TITLE OF INVENTION: Peptides from the E2, E6 and E7 Proteins of Human Papillomavirus
; TITLE OF INVENTION: 18 for Detecting and/or Diagnosing Cervical and Other Human Papi
; FILE REFERENCE: 3352-2-2
; CURRENT APPLICATION NUMBER: US/10/612,818
; CURRENT FILING DATE: 2003-07-01
; PRIOR APPLICATION NUMBER: US 60/394,172
; PRIOR FILING DATE: 2002-07-02
; PRIOR APPLICATION NUMBER: US 09/828,645
; PRIOR FILING DATE: 2001-04-05
; NUMBER OF SEQ ID NOS: 8
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO: 6
; LENGTH: 21
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Derived from the E7 early coding region of HPV 16
US-10-612-818-6
```

```
Query Match          100.0%; Score 47; DB 4; Length 21;
Best Local Similarity 100.0%; Pred. No. 0.14;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy      1 EIDGPAGQA 9
        |||||
Db      12 EIDGPAGQA 20
```

RESULT 22

```
US-10-648-547-106
; Sequence 106, Application US/10648547
; Publication No. US20040147044A1
; GENERAL INFORMATION:
; APPLICANT: Mittelman, Abraham
; APPLICANT: Kanduc, Darja
; TITLE OF INVENTION: Improved Antigens
; FILE REFERENCE: 12354/9
; CURRENT APPLICATION NUMBER: US/10/648,547
; CURRENT FILING DATE: 2003-08-25
; PRIOR APPLICATION NUMBER: 10/306,541
; PRIOR FILING DATE: 11-25-2002
; PRIOR APPLICATION NUMBER: 60/333,249
; PRIOR FILING DATE: 11-23-2001
; NUMBER OF SEQ ID NOS: 106
; SOFTWARE: WordPerfect 8.0 for Windows
; SEQ ID NO: 106
; LENGTH: 21
; TYPE: PRT
```

ORGANISM: human papillomavirus
US-10-648-547-106

Query Match 100.0%; Score 47; DB 4; Length 21;
Best Local Similarity 100.0%; Pred. No. 0.14;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 EIDGPAGQA 9
12 EIDGPAGQA 20

RESULT 23

US-10-476-570-62
Sequence 62, Application US/10476570
Publication No. US20040170644A1
GENERAL INFORMATION:
APPLICANT: COMMISSARIAT A L'ENERGIE ATOMIQUE
APPLICANT: INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE
APPLICANT: MAILLIERE, Bernard
APPLICANT: BOURGAULT-VILLADA, Isabelle
APPLICANT: POUVELLE-MORATILLE, Sandra
TITLE OF INVENTION: Mixture of peptides derived from E6 and/or E7
FILE REFERENCE: 45636-5071-US
CURRENT APPLICATION NUMBER: US/10/476,570
CURRENT FILING DATE: 2003-11-04
PRIOR APPLICATION NUMBER: PCT/FR02/01533
PRIOR FILING DATE: 2002-05-03
PRIOR APPLICATION NUMBER: FR 01 05980
PRIOR FILING DATE: 2001-05-04
NUMBER OF SEQ ID NOS: 63
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 62
LENGTH: 21
TYPE: PRT
ORGANISM: artificial sequence
FEATURE:
OTHER INFORMATION: Description of the artificial sequence: peptide E7 35-55
US-10-476-570-62

Query Match 100.0%; Score 47; DB 4; Length 21;
Best Local Similarity 100.0%; Pred. No. 0.14;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 EIDGPAGQA 9
3 EIDGPAGQA 11

RESULT 24

US-10-306-541-106
Sequence 106, Application US/10306541
Publication No. US20040171081A1
GENERAL INFORMATION:
APPLICANT: Mitelman, Abraham
APPLICANT: Kanduc, Darja
TITLE OF INVENTION: Improved Antigens
FILE REFERENCE: 12354/4
CURRENT APPLICATION NUMBER: US/10/306,541
CURRENT FILING DATE: 2003-11-25
PRIOR APPLICATION NUMBER: 60/333,249
PRIOR FILING DATE: 2001-11-23
NUMBER OF SEQ ID NOS: 108
SOFTWARE: WordPerfect 8.0 for Windows
SEQ ID NO 106
LENGTH: 21
TYPE: PRT
ORGANISM: human papillomavirus
US-10-306-541-106

Query Match 100.0%; Score 47; DB 4; Length 21;

Best Local Similarity 100.0%; Pred. No. 0.14;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 EIDGPAGQA 9
12 EIDGPAGQA 20

RESULT 25

US-10-995-902-6
Sequence 6, Application US/10995902
Publication No. US20050221295A1
GENERAL INFORMATION:
APPLICANT: Impact Diagnostics
APPLICANT: Impact Diagnostics
TITLE OF INVENTION: Peptides from the E2, E6 and E7 proteins of Human Papillomavirus
TITLE OF INVENTION: 18 for Detecting and/or Diagnosing Cervical and Other Human Papi
FILE REFERENCE: 3352-2-2
CURRENT APPLICATION NUMBER: US/10/995,902
CURRENT FILING DATE: 2004-11-23
PRIOR APPLICATION NUMBER: US 60/394,172
PRIOR FILING DATE: 2002-07-02
PRIOR APPLICATION NUMBER: US 09/828,645
PRIOR FILING DATE: 2001-04-05
NUMBER OF SEQ ID NOS: 8
SOFTWARE: PatentIn version 3.1
SEQ ID NO 6
LENGTH: 21
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Derived from the E7 early coding region of HPV 16
US-10-995-902-6

Query Match 100.0%; Score 47; DB 5; Length 21;
Best Local Similarity 100.0%; Pred. No. 0.14;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 EIDGPAGQA 9
12 EIDGPAGQA 20

RESULT 26

US-09-367-309A-6
Sequence 6, Application US/09367309A
Publication No. US20020081329A1
GENERAL INFORMATION:
APPLICANT: MACFARLAN, RODERICK I.
APPLICANT: MALIAROS, JIM
TITLE OF INVENTION: CHELATING IMMUNOSTIMULATING COMPLEXES
FILE REFERENCE: 017227/0149
CURRENT APPLICATION NUMBER: US/09/367,309A
CURRENT FILING DATE: 1999-08-11
PRIOR APPLICATION NUMBER: PCT/AU98/00080
PRIOR FILING DATE: 1998-02-13
PRIOR APPLICATION NUMBER: AU PO 5178
PRIOR FILING DATE: 1997-02-19
NUMBER OF SEQ ID NOS: 6
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 6
LENGTH: 22
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Synthetic
peptide
US-09-367-309A-6

Query Match 100.0%; Score 47; DB 3; Length 22;
Best Local Similarity 100.0%; Pred. No. 0.15;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 1 EIDBPAGOA 9
| | | | |
Db 5 EIDBPAGOA 13

RESULT 27

US-09-728-466-1
; Sequence 1, Application US/09728466
; Patent No. US20010029022A1
; GENERAL INFORMATION:
; APPLICANT: Fisher, Christopher
; APPLICANT: He, Manxia
; TITLE OF INVENTION: Methods to Identify Anti-Viral Agents
; PILE REFERENCE: 28341/6216
; CURRENT APPLICATION NUMBER: US/09/728,466
; CURRENT FILING DATE: 2000-12-01
; PRIOR APPLICATION NUMBER: 09/382,616
; PRIOR FILING DATE: 1999-08-25
; NUMBER OF SEQ ID NOS: 43
; SOFTWARE: Patentln Ver. 2.0
; SEQ ID NO: 1
; LENGTH: 98
; TYPE: PRT
; ORGANISM: Papillomavirus sylvilagi
US-09-728-466-1

Query Match 100.0%; Score 47; DB 3; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.66;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 1 EIDBPAGOA 9
| | | | |
Db 37 EIDBPAGOA 45

RESULT 28

US-09-820-765-4
; Sequence 4, Application US/09820765
; Publication No. US20020039584A1
; GENERAL INFORMATION:
; APPLICANT: BURGER, Alexander
; APPLICANT: HALLEK, Michael
; TITLE OF INVENTION: PAPILLOMA VIRUS CAPSOMERE VACCINE
; FORMULATIONS AND METHODS OF USE
; NUMBER OF SEQUENCES: 28
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: FOLEY & LARDNER
; STREET: 3000 K Street, N.W.
; CITY: Washington
; STATE: D.C.
; COUNTRY: U.S.A.
; ZIP: 20007-5109
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentln Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/820,765
; FILING DATE: 30-Mar-2001
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 09/026,896
; FILING DATE: 20-FEB-1998
; ATTORNEY/AGENT INFORMATION:
; NAME: Sandercoc, Colin G.
; REGISTRATION NUMBER: 31,298
; REFERENCE/DOCKET NUMBER: 37067/102
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202) 672-5300
; TELEFAX: (202) 672-5399
; INFORMATION FOR SEQ ID NO: 4:

SEQUENCE CHARACTERISTICS:
; LENGTH: 98 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; SEQUENCE DESCRIPTION: SEQ ID NO: 4:
US-09-820-765-4

Query Match 100.0%; Score 47; DB 3; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.66;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 1 EIDBPAGOA 9
| | | | |
Db 37 EIDBPAGOA 45

RESULT 29

US-09-824-017-4
; Sequence 4, Application US/09824017
; Publication No. US20020197668A1
; GENERAL INFORMATION:
; APPLICANT: BURGER, Alexander
; APPLICANT: HALLEK, Michael
; TITLE OF INVENTION: PAPILLOMA VIRUS CAPSOMERE VACCINE
; FORMULATIONS AND METHODS OF USE
; NUMBER OF SEQUENCES: 28
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: FOLEY & LARDNER
; STREET: 3000 K Street, N.W.
; CITY: Washington
; STATE: D.C.
; COUNTRY: U.S.A.
; ZIP: 20007-5109
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentln Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/824,017
; FILING DATE: 03-Apr-2001
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 09/026,896
; FILING DATE: 1998-02-20
; ATTORNEY/AGENT INFORMATION:
; NAME: Sandercoc, Colin G.
; REGISTRATION NUMBER: 31,298
; REFERENCE/DOCKET NUMBER: 37067/102
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202) 672-5300
; TELEFAX: (202) 672-5399
; INFORMATION FOR SEQ ID NO: 4:

SEQUENCE CHARACTERISTICS:
; LENGTH: 98 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; SEQUENCE DESCRIPTION: SEQ ID NO: 4:
US-09-824-017-4

Query Match 100.0%; Score 47; DB 3; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.66;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 1 EIDBPAGOA 9
| | | | |
Db 37 EIDBPAGOA 45

RESULT 30
US-09-986-118A-4

```
; Sequence 4, Application US/09986118A
; Publication No. US20030021806A1
; GENERAL INFORMATION:
; APPLICANT: BURGER, Alexander
; HALLER, Michael
; TITLE OF INVENTION: PAPILLOMA VIRUS CAPSOMERE VACCINE
; FORMULATIONS AND METHODS OF USE
; NUMBER OF SEQUENCES: 28
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: FOLEY & LARDNER
; STREET: 3000 K Street, N.W.
; CITY: Washington
; STATE: D.C.
; COUNTRY: U.S.A.
; ZIP: 20007-5109
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/986,118A
; FILING DATE: 07-No. US20030021806A1-2001
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 09/026,896
; FILING DATE: <Unknown>
; ATTORNEY/AGENT INFORMATION:
; NAME: Sanderoock, Colin G.
; REGISTRATION NUMBER: 31,298
; REFERENCE/DOCKET NUMBER: 37067/102
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202) 672-5300
; TELEFAX: (202) 672-5399
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 98 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; SEQUENCE DESCRIPTION: SEQ ID NO: 4:
US-09-986-118A-4

Query Match          100.0%; Score 47; DB 3; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.66;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 EIDGPAGQA 9
Db      37 EIDGPAGQA 45

RESULT 31
US-10-267-311-8
; Sequence 8, Application US/10267311
; Publication No. US20030050469A1
; GENERAL INFORMATION:
; APPLICANT: Siegel, Marvin
; APPLICANT: Chu, N. Randall
; APPLICANT: Mizzen, Lee A.
; TITLE OF INVENTION: INDUCTION OF A THI-LIKE RESPONSE IN VITRO
; FILE REFERENCE: 12071/002001
; CURRENT APPLICATION NUMBER: US/10/267,311
; CURRENT FILING DATE: 2002-10-09
; PRIOR APPLICATION NUMBER: US/09/613,303
; PRIOR FILING DATE: 2000-07-10
; PRIOR APPLICATION NUMBER: US 60/143,757
; PRIOR FILING DATE: 1999-07-08
; NUMBER OF SEQ ID NOS: 55
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 8
; LENGTH: 98
; TYPE: PRT
```

```
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: fusion sequence
US-10-267-311-8

Query Match          100.0%; Score 47; DB 4; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.66;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 EIDGPAGQA 9
Db      37 EIDGPAGQA 45

RESULT 32
US-10-177-390-8
; Sequence 8, Application US/10177390
; Publication No. US20030143743A1
; GENERAL INFORMATION:
; APPLICANT: Schuler, Gerold
; APPLICANT: N.V. Antwerp Innovatiecentrum
; TITLE OF INVENTION: Improved transfection of Eucaryotic Cells with Linear
; FILE REFERENCE: 021505wo/JH/ml
; CURRENT APPLICATION NUMBER: US/10/177,390
; CURRENT FILING DATE: 2002-06-20
; NUMBER OF SEQ ID NOS: 34
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 8
; LENGTH: 98
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: fragment of
US-10-177-390-8

Query Match          100.0%; Score 47; DB 4; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.66;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 EIDGPAGQA 9
Db      37 EIDGPAGQA 45

RESULT 33
US-10-201-764-19
; Sequence 19, Application US/10201764
; Publication No. US20030166140A1
; GENERAL INFORMATION:
; APPLICANT: CHEN, SI-YI AND ZHAOYANG, YOU
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR ANTIGENS WHICH ELICIT AN
; FILE REFERENCE: TBA
; CURRENT APPLICATION NUMBER: US/10/201,764
; CURRENT FILING DATE: 2002-07-22
; PRIOR APPLICATION NUMBER: US/09/566,420
; PRIOR FILING DATE: 2000-05-05
; PRIOR APPLICATION NUMBER: 60/132,752
; PRIOR FILING DATE: 1999-05-06
; PRIOR APPLICATION NUMBER: 60/132,750
; PRIOR FILING DATE: 1999-05-06
; NUMBER OF SEQ ID NOS: 19
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 19
; LENGTH: 98
; TYPE: PRT
; ORGANISM: Human papillomavirus type E7
US-10-201-764-19

Query Match          100.0%; Score 47; DB 4; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.66;
```

Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 EIDGPAGQA 9
| | | | |
Db 37 EIDGPAGQA 45

RESULT 34
US-10-392-113-29
; Sequence 29, Application US/10392113
; Publication No. US2003024993A1
; GENERAL INFORMATION:
; APPLICANT: Land, Hartmut
; APPLICANT: Deleu, Laurent
; TITLE OF INVENTION: COMPOSITIONS THAT INHIBIT PROLIFERATION
; TITLE OF INVENTION: OF CANCER CELLS
; FILE REFERENCE: 21108.0005U3
; CURRENT FILING DATE: 2003-03-17
; PRIOR FILING DATE: 2003-03-17
; PRIOR APPLICATION NUMBER: 60/365,078
; PRIOR FILING DATE: 2002-03-15
; PRIOR APPLICATION NUMBER: PCT/US01/32127
; PRIOR FILING DATE: 2001-10-15
; PRIOR APPLICATION NUMBER: 60/239,705
; PRIOR FILING DATE: 2000-10-12
; NUMBER OF SEQ ID NOS: 45
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 29
; LENGTH: 98
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence:/Note =
US-10-392-113-29

Query Match 100.0%; Score 47; DB 4; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.66;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 EIDGPAGQA 9
| | | | |
Db 37 EIDGPAGQA 45

RESULT 35
US-10-654-129-4
; Sequence 4, Application US/10654129
; Publication No. US20040081661A1
; GENERAL INFORMATION:
; APPLICANT: BURGER, Alexander
; APPLICANT: HALLEK, Michael
; TITLE OF INVENTION: PAPILLOMA VIRUS CAPSOMERE VACCINE
; TITLE OF INVENTION: FORMULATIONS AND METHODS OF USE
; NUMBER OF SEQUENCES: 28
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: FOLEY & LARDNER
; STREET: 3000 K Street, N.W.
; CITY: Washington
; STATE: D.C.
; COUNTRY: U.S.A.
; ZIP: 20007-5109
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/10/654,129
; FILING DATE: 04-Sep-2003
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/09/824,017

FILING DATE: 03-Apr-2001
APPLICATION NUMBER: 09/026,896
FILING DATE: 1998-02-20
ATTORNEY/AGENT INFORMATION:
NAME: Sandercoc, Colin G.
REGISTRATION NUMBER: 31,298
REFERENCE/DOCKET NUMBER: 37067/102
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 672-5300
TELEFAX: (202) 672-5399
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 98 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
SEQUENCE DESCRIPTION: SEQ ID NO: 4:
US-10-654-129-4

Query Match 100.0%; Score 47; DB 4; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.66;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 EIDGPAGQA 9
| | | | |
Db 37 EIDGPAGQA 45

RESULT 36
US-10-681-410-19
; Sequence 19, Application US/10681410
; Publication No. US20040096426A1
; GENERAL INFORMATION:
; APPLICANT: CHEN, SI-YI AND ZHAOYANG, YOU
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR ANTIGENS WHICH ELICIT AN
; TITLE OF INVENTION: IMMUNE RESPONSE
; FILE REFERENCE: TBA
; CURRENT APPLICATION NUMBER: US/10/681,410
; CURRENT FILING DATE: 2003-10-08
; PRIOR FILING DATE: 2002-07-22
; PRIOR APPLICATION NUMBER: US/10/201,764
; PRIOR FILING DATE: 2002-07-22
; PRIOR APPLICATION NUMBER: US/09/566,420
; PRIOR FILING DATE: 2000-05-05
; PRIOR APPLICATION NUMBER: 60/132,752
; PRIOR FILING DATE: 1999-05-06
; PRIOR APPLICATION NUMBER: 60/132,750
; PRIOR FILING DATE: 1999-05-06
; NUMBER OF SEQ ID NOS: 19
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 19
; LENGTH: 98
; TYPE: PRT
; ORGANISM: Human papillomavirus type E7
US-10-681-410-19

Query Match 100.0%; Score 47; DB 4; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.66;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 EIDGPAGQA 9
| | | | |
Db 37 EIDGPAGQA 45

RESULT 37
US-10-772-988-3
; Sequence 3, Application US/10772988
; Publication No. US20040139485A1
; GENERAL INFORMATION:
; APPLICANT: Thorgeirsson, Snorri S.
; APPLICANT: Woltach, Joseph T.
; APPLICANT: Zhang, Minghuang
; TITLE OF INVENTION: CDNA ENCODING A GENE BOG (BST OVER-EXPRESSED GENE) AND ITS PROTEIN


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; TITLE OF INVENTION: PRODUCT
; FILE REFERENCE: 11613.29USM1
; CURRENT APPLICATION NUMBER: US/10/772,988
; CURRENT FILING DATE: 2004-02-05
; PRIOR APPLICATION NUMBER: US/09/637,746
; PRIOR FILING DATE: 2000-06-11
; PRIOR APPLICATION NUMBER: PCT/US99/04142
; PRIOR FILING DATE: 1999-02-25
; PRIOR APPLICATION NUMBER: US 60/079,567
; PRIOR FILING DATE: 1998-03-27
; PRIOR APPLICATION NUMBER: US 60/075,922
; PRIOR FILING DATE: 1998-02-25
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 3
; LENGTH: 98
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-772-988-3

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Query Match          100.0%; Score 47; DB 4; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.66;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Qy 1 EIDGPAGQA 9
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Db 37 EIDGPAGQA 45

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RESULT 38
US-10-479-541-5
; Sequence 5, Application US/10479541
; Publication No. US20040151723A1
; GENERAL INFORMATION:
; APPLICANT: Kirin Beer Kabushiki Kaisha
; TITLE OF INVENTION: Novel E7 antigen epitope from human papillomavirus and
; FILE REFERENCE: 137240PX
; CURRENT APPLICATION NUMBER: US/10/479,541
; CURRENT FILING DATE: 2003-12-04
; PRIOR APPLICATION NUMBER: 173603/2001
; PRIOR FILING DATE: 2001-06-08
; NUMBER OF SEQ ID NOS: 5
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 5
; LENGTH: 98
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-10-479-541-5

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Query Match          100.0%; Score 47; DB 4; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.66;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Qy 1 EIDGPAGQA 9
    |||||
Db 37 EIDGPAGQA 45

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RESULT 39
US-10-042-526A-4
; Sequence 4, Application US/10042526A
; Publication No. US20050031636A1
; GENERAL INFORMATION:
; APPLICANT: GISSMANN, et al.
; TITLE OF INVENTION: PAPILLOMA VIRUS CAPSOMERE VACCINE FORMULATIONS AND METHODS OF USE
; FILE REFERENCE: 27013/38150
; CURRENT APPLICATION NUMBER: US/10/042,526A
; CURRENT FILING DATE: 2002-04-29
; PRIOR APPLICATION NUMBER: US 09/632,286
; PRIOR FILING DATE: 2000-08-03
; PRIOR APPLICATION NUMBER: US 08/944,368
; PRIOR FILING DATE: 1997-10-06

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; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 4
; LENGTH: 98
; TYPE: PRT
; ORGANISM: Human Papilloma Virus
US-10-042-526A-4

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Query Match          100.0%; Score 47; DB 5; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.66;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Qy 1 EIDGPAGQA 9
    |||||
Db 37 EIDGPAGQA 45

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RESULT 40
US-10-657-399-1
; Sequence 1, Application US/10657399
; Publication No. US20050032038A1
; GENERAL INFORMATION:
; APPLICANT: Fisher, Christopher
; APPLICANT: He, Manxia
; TITLE OF INVENTION: Methods to Identify Anti-Viral Agents
; FILE REFERENCE: 28341/6216
; CURRENT APPLICATION NUMBER: US/10/657,399
; CURRENT FILING DATE: 2003-09-08
; PRIOR APPLICATION NUMBER: US/09/728,466
; PRIOR FILING DATE: 2000-12-01
; PRIOR APPLICATION NUMBER: 09/382,616
; PRIOR FILING DATE: 1999-08-25
; NUMBER OF SEQ ID NOS: 43
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1
; LENGTH: 98
; TYPE: PRT
; ORGANISM: Papillomavirus sylvilagi
US-10-657-399-1

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Query Match          100.0%; Score 47; DB 5; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.66;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Qy 1 EIDGPAGQA 9
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Db 37 EIDGPAGQA 45

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RESULT 41
US-10-858-384-12
; Sequence 12, Application US/10858384
; Publication No. US20050033025A1
; GENERAL INFORMATION:
; APPLICANT: CHOPPIN, JEANNINE
; APPLICANT: BOURGAULT VILADA, ISABELLE
; APPLICANT: GUIDLET, JEAN-GERARD
; APPLICANT: CONNAN, FRANCESCA
; APPLICANT: FERRIES, ESTELLE
; TITLE OF INVENTION: POLYPEPTIDIC PROTEIN FRAGMENTS OF THE E6 PROTEIN
; TITLE OF INVENTION: OR E7 OF HPV, THEIR PRODUCTION AND THEIR USE
; FILE REFERENCE: 0508-1037-1
; CURRENT APPLICATION NUMBER: US/10/858,384
; CURRENT FILING DATE: 2004-06-02
; PRIOR APPLICATION NUMBER: FR 9907012
; PRIOR FILING DATE: 1999-06-03
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: PatentIn Ver. 3.2
; SEQ ID NO 12
; LENGTH: 98
; TYPE: PRT
; ORGANISM: Human Papillomavirus

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US-10-858-384-12

Query Match 100.0%; Score 47; DB 5; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.66;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 EIDBPAGQA 9
|||
Db 37 EIDBPAGQA 45

RESULT 42

US-10-484-063-26
; Sequence 26, Application US/10484063
; Publication No. US20050048467A1
; GENERAL INFORMATION:
; APPLICANT: SASTRY, K. JAGANNADHA
; APPLICANT: TORTOLERO-LUNA, GUILLERMO
; APPLICANT: FOLLEN, MICHELE
; TITLE OF INVENTION: METHODS AND COMPOSITIONS RELATING TO HPV-ASSOCIATED
; TITLE OF INVENTION: PRE-CANCEROUS AND CANCEROUS GROWTHS, INCLUDING CIN
; FILE REFERENCE: UTS:560US
; CURRENT FILING DATE: 2004-01-16
; PRIOR APPLICATION NUMBER: PCT/US02/23198
; PRIOR FILING DATE: 2002-07-19
; PRIOR APPLICATION NUMBER: 60/306,809
; PRIOR FILING DATE: 2001-07-20
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 26
; LENGTH: 98
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-10-484-063-26

Query Match 100.0%; Score 47; DB 5; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.66;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 EIDBPAGQA 9
|||
Db 37 EIDBPAGQA 45

RESULT 43

US-10-343-448-5
; Sequence 5, Application US/10343448
; Publication No. US20050054820A1
; GENERAL INFORMATION:
; APPLICANT: WU, Tzyy-Choon
; APPLICANT: HUNG, Chien-Fu
; TITLE OF INVENTION: MOLECULAR VACCINE LINKING AN ENDOPLASMIC RETICULUM CHAPERONE
; FILE REFERENCE: 2240-186463
; CURRENT FILING DATE: 2003-01-31
; PRIOR APPLICATION NUMBER: PCT/US01/24134
; PRIOR FILING DATE: 2001-08-02
; PRIOR APPLICATION NUMBER: US 60/222,902
; PRIOR FILING DATE: 2000-08-03
; NUMBER OF SEQ ID NOS: 7
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 5
; LENGTH: 98
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-343-448-5

Query Match 100.0%; Score 47; DB 5; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.66;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 EIDBPAGQA 9
|||
Db 37 EIDBPAGQA 45

RESULT 44

US-10-679-956-8
; Sequence 8, Application US/10679956
; Publication No. US20050089841A1
; GENERAL INFORMATION:
; APPLICANT: Siegel, Marvin
; APPLICANT: Chu, N. Randall
; APPLICANT: Mizen, Lee A.
; TITLE OF INVENTION: INDUCTION OF A TH1-LIKE RESPONSE IN VITRO
; FILE REFERENCE: 12071/002001
; CURRENT APPLICATION NUMBER: US/10/679,956
; CURRENT FILING DATE: 2003-10-06
; PRIOR APPLICATION NUMBER: US/09/613,303
; PRIOR FILING DATE: 2000-07-10
; PRIOR APPLICATION NUMBER: US 60/143,757
; PRIOR FILING DATE: 1999-07-08
; NUMBER OF SEQ ID NOS: 55
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 8
; LENGTH: 98
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: fusion sequence
US-10-679-956-8

Query Match 100.0%; Score 47; DB 5; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.66;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 EIDBPAGQA 9
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Db 37 EIDBPAGQA 45

RESULT 45

US-10-367-057-17
; Sequence 17, Application US/10367057
; Publication No. US20050100554A1
; GENERAL INFORMATION:
; APPLICANT: Cuthill, Scott;
; APPLICANT: Jackson, Amanda;
; APPLICANT: Lewin, David A.;
; APPLICANT: Ooi, Chean Eng
; TITLE OF INVENTION: Complexes and Methods of Using Same
; FILE REFERENCE: 21402-559
; CURRENT APPLICATION NUMBER: US/10/367,057
; CURRENT FILING DATE: 2003-02-14
; PRIOR APPLICATION NUMBER: 60/256,911
; PRIOR FILING DATE: 2002-02-14
; NUMBER OF SEQ ID NOS: 198
; SOFTWARE: Cbaseqdist version 0.1
; SEQ ID NO 17
; LENGTH: 98
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-367-057-17

Query Match 100.0%; Score 47; DB 5; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.66;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 EIDBPAGQA 9
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Db 37 EIDBPAGQA 45

RESULT 46

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US-11-077-939-5
; Sequence 5, Application US/11077939
; Publication No. US20050196865A1
; GENERAL INFORMATION:
; APPLICANT: Frazer, Ian Hector
; TITLE OF INVENTION: Gene Expression System Based on Codon Translation Efficiency
; FILE REFERENCE: 10338-11U1
; CURRENT APPLICATION NUMBER: US/11/077,939
; PRIOR FILING DATE: 2005-03-11
; PRIOR APPLICATION NUMBER: PCT/AU2003/001200
; PRIOR FILING DATE: 2003-09-12
; PRIOR APPLICATION NUMBER: US 60/410410
; PRIOR FILING DATE: 2002-09-13
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 5
; LENGTH: 98
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-11-077-939-5

Query Match          100.0%; Score 47; DB 6; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.66;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 EIDGPAGQA 9
Db 37 EIDGPAGQA 45

RESULT 47
US-10-115-440-7
; Sequence 7, Application US/10115440
; Publication No. US20040086865A1
; GENERAL INFORMATION:
; APPLICANT: Wu, Tzyy-Chouu
; APPLICANT: HUNG, Chien-Fu
; TITLE OF INVENTION: SUPERIOR MOLECULAR VACCINE LINKING THE TRANSLLOCATION DOMAIN OF A
; TITLE OF INVENTION: BACTERIAL TOXIN TO AN ANTIGEN
; FILE REFERENCE: 02240-179934
; CURRENT APPLICATION NUMBER: US/10/115,440
; CURRENT FILING DATE: 2002-09-30
; PRIOR APPLICATION NUMBER: US 60/281,003
; PRIOR FILING DATE: 2001-04-04
; PRIOR APPLICATION NUMBER: PCT/US00/41422
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: US 09/501,097
; PRIOR FILING DATE: 2000-02-09
; PRIOR APPLICATION NUMBER: US 09/421,608
; PRIOR FILING DATE: 1999-10-20
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 7
; LENGTH: 99
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-115-440-7

Query Match          100.0%; Score 47; DB 4; Length 99;
Best Local Similarity 100.0%; Pred. No. 0.67;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 EIDGPAGQA 9
Db 37 EIDGPAGQA 45

RESULT 48
US-10-472-724-4
; Sequence 4, Application US/10472724
; Publication No. US20040171806A1
; GENERAL INFORMATION:
; APPLICANT: Cid-Arregui, Angel
```

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; APPLICANT: Zur Hausen, Harald
; TITLE OF INVENTION: Modified HPV E6 and E7 genes and proteins useful for vaccination
; FILE REFERENCE: 4121-154
; CURRENT APPLICATION NUMBER: US/10/472,724
; PRIOR FILING DATE: 2003-09-17
; PRIOR APPLICATION NUMBER: PCT/EP02/03271
; PRIOR FILING DATE: 2002-03-22
; PRIOR APPLICATION NUMBER: EP 01107271.7
; PRIOR FILING DATE: 2001-03-23
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 4
; LENGTH: 111
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Construct
US-10-472-724-4

Query Match          100.0%; Score 47; DB 4; Length 111;
Best Local Similarity 100.0%; Pred. No. 0.75;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 EIDGPAGQA 9
Db 42 EIDGPAGQA 50

RESULT 49
US-10-267-311-12
; Sequence 12, Application US/10267311
; Publication No. US20030050469A1
; GENERAL INFORMATION:
; APPLICANT: Siegel, Marvin
; APPLICANT: Chu, N. Randall
; APPLICANT: Mizzen, Lee A.
; TITLE OF INVENTION: INDUCTION OF A TH1-LIKE RESPONSE IN VITRO
; FILE REFERENCE: 12071/002001
; CURRENT APPLICATION NUMBER: US/10/267,311
; CURRENT FILING DATE: 2002-10-09
; PRIOR APPLICATION NUMBER: US/09/613,303
; PRIOR FILING DATE: 2000-07-10
; PRIOR APPLICATION NUMBER: US 60/143,757
; PRIOR FILING DATE: 1999-07-08
; NUMBER OF SEQ ID NOS: 55
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 12
; LENGTH: 121
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: fusion sequence
US-10-267-311-12

Query Match          100.0%; Score 47; DB 4; Length 121;
Best Local Similarity 100.0%; Pred. No. 0.82;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 EIDGPAGQA 9
Db 60 EIDGPAGQA 68

RESULT 50
US-10-679-956-12
; Sequence 12, Application US/10679956
; Publication No. US20050089841A1
; GENERAL INFORMATION:
; APPLICANT: Siegel, Marvin
; APPLICANT: Chu, N. Randall
; APPLICANT: Mizzen, Lee A.
; TITLE OF INVENTION: INDUCTION OF A TH1-LIKE RESPONSE IN VITRO
; FILE REFERENCE: 12071/002001
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; CURRENT APPLICATION NUMBER: US/10/679,956
; CURRENT FILING DATE: 2003-10-06
; PRIOR APPLICATION NUMBER: US/09/613,303
; PRIOR FILING DATE: 2000-07-10
; PRIOR APPLICATION NUMBER: US 60/143,757
; PRIOR FILING DATE: 1999-07-08
; NUMBER OF SEQ ID NOS: 55
; SOFTWARE: PastSeq for Windows Version 4.0
; SEQ ID NO 12
; LENGTH: 121
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: fusion sequence
; US-10-679-956-12

Query Match 100.0%; Score 47; DB 5; Length 121;
Best Local Similarity 100.0%; Pred. No. 0.82;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 RIDGPAGQA 9
Db 60 RIDGPAGQA 68

Search completed: May 5, 2006, 08:50:39
Job time : 61.3 secs

GenCore version 5.1.7
Copyright (c) 1993 - 2006 Bioacceleration Ltd.

OM protein - protein search, using sw model

Run on: May 5, 2006, 08:40:52 ; Search time 8.4 Seconds
(without alignments)
49.591 Million cell updates/sec

Title: US-08-170-344-39
Perfect score: 47
Sequence: 1 EIDGPAGQA 9

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Gapop 10.0 , Gapext 0.5

Searched: 235405 seqs, 46284737 residues

Total number of hits satisfying chosen parameters: 235405

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 1000 summaries

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Published Applications_AA_New: *
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2: /SID5/ptodata/1/pubppa/US06_NEW_PUB.pep: *
3: /SID5/ptodata/1/pubppa/US07_NEW_PUB.pep: *
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6: /SID5/ptodata/1/pubppa/US09_NEW_PUB.pep: *
7: /SID5/ptodata/1/pubppa/US10_NEW_PUB.pep1: *
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12: /SID5/ptodata/1/pubppa/US60_NEW_PUB.pep: *

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	47	100.0	98	8	US-10-511-814-8
2	47	100.0	98	9	US-10-530-253-14
3	47	100.0	98	11	US-11-179-478-4
4	47	100.0	248	9	US-10-530-253-1
5	47	100.0	248	9	US-10-530-253-3
6	47	100.0	248	9	US-10-530-253-5
7	47	100.0	248	9	US-10-530-253-7
8	47	100.0	248	9	US-10-530-253-9
9	47	100.0	248	9	US-10-530-253-11
10	47	100.0	256	11	US-11-193-923A-2
11	46	97.9	98	8	US-10-511-814-11
12	46	89.4	98	9	US-10-530-253-30
13	36	76.6	98	9	US-10-530-253-28
14	35	74.5	347	11	US-11-045-004-1121
15	34	72.3	98	9	US-10-530-253-36
16	34	72.3	419	11	US-11-045-004-727
17	34	72.3	426	11	US-11-079-463-7547
18	34	72.3	467	9	US-10-512-376-3
19	34	72.3	496	9	US-10-512-376-2
20	34	72.3	1211	11	US-11-188-298-10688
21	34	72.3	1400	9	US-10-821-234-1045

22	33	70.2	208	11	US-11-096-568A-21069	Sequence 21069, A
23	33	70.2	210	11	US-11-096-568A-21068	Sequence 21068, A
24	33	70.2	225	11	US-11-098-686-11155	Sequence 11155, A
25	33	70.2	272	11	US-11-045-004-16119	Sequence 16119, Ap
26	33	70.2	284	11	US-11-096-568A-21067	Sequence 21067, A
27	33	70.2	298	9	US-10-821-234-1240	Sequence 1240, Ap
28	33	70.2	409	11	US-11-055-822-290	Sequence 290, App
29	33	70.2	1059	11	US-11-231-599-10	Sequence 10, App1
30	33	70.2	1628	11	US-11-231-599-6	Sequence 8, App1
31	32	68.1	241	11	US-11-264-096-585	Sequence 585, App
32	32	68.1	365	11	US-11-264-096-586	Sequence 586, App
33	32	68.1	475	9	US-11-229-769-322	Sequence 322, App
34	32	68.1	542	11	US-11-229-769-323	Sequence 48, App1
35	32	68.1	713	9	US-10-453-372-48	Sequence 323, App
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37	32	68.1	776	9	US-10-453-372-46	Sequence 44, App1
38	32	68.1	808	11	US-11-072-512-2654	Sequence 46, App1
39	32	68.1	869	9	US-10-453-372-50	Sequence 2654, Ap
40	32	68.1	2612	9	US-10-453-372-38	Sequence 50, App1
41	32	68.1	2669	9	US-10-453-372-36	Sequence 36, App1
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45	32	68.1	3130	9	US-10-453-372-42	Sequence 42, App1
46	32	68.1	3483	9	US-10-453-372-40	Sequence 40, App1
47	32	68.1	3546	9	US-10-453-372-32	Sequence 32, App1
48	32	68.1	72	11	US-11-053-076-325	Sequence 35, App
49	31	66.0	137	11	US-11-120-308-60	Sequence 60, App1
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51	31	66.0	218	11	US-11-096-568A-29541	Sequence 29541, A
52	31	66.0	249	9	US-10-506-454-195	Sequence 195, App
53	31	66.0	322	11	US-11-096-568A-29540	Sequence 29540, A
54	31	66.0	328	11	US-11-188-298-20669	Sequence 20669, A
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56	31	66.0	376	11	US-11-218-272-13	Sequence 13, App1
57	31	66.0	425	11	US-11-188-298-634	Sequence 634, App
58	31	66.0	445	11	US-11-188-298-17735	Sequence 17735, A
59	31	66.0	461	11	US-11-188-298-12444	Sequence 12444, A
60	31	66.0	480	8	US-10-505-928-731	Sequence 731, App
61	31	66.0	486	11	US-11-188-298-7413	Sequence 7413, Ap
62	31	66.0	486	11	US-11-188-298-22374	Sequence 22374, A
63	31	66.0	517	11	US-11-098-686-11247	Sequence 11247, A
64	31	66.0	519	9	US-10-672-040-23	Sequence 23, App1
65	31	66.0	599	9	US-11-188-298-20261	Sequence 20261, A
66	31	66.0	698	11	US-11-188-298-15695	Sequence 15695, A
67	31	66.0	832	9	US-10-204-639-41	Sequence 41, App1
68	31	66.0	949	11	US-11-052-554A-6	Sequence 6, App1
69	31	66.0	1896	9	US-10-877-346-13	Sequence 13, App1
70	31	66.0	13	9	US-10-510-246-54	Sequence 54, App1
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72	30	63.8	175	11	US-11-096-568A-26271	Sequence 26271, A
73	30	63.8	194	11	US-11-072-512-3410	Sequence 3410, Ap
74	30	63.8	217	11	US-11-188-298-11122	Sequence 11122, A
75	30	63.8	217	11	US-11-188-298-18854	Sequence 18854, A
76	30	63.8	236	11	US-11-055-822-996	Sequence 996, App
77	30	63.8	254	11	US-11-188-298-17451	Sequence 17451, A
78	30	63.8	269	11	US-11-096-568A-10217	Sequence 10217, A
79	30	63.8	273	11	US-11-188-298-12010	Sequence 22010, A
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82	30	63.8	303	9	US-10-432-483-19	Sequence 19, App1
83	30	63.8	303	11	US-11-188-298-19664	Sequence 49664, Ap
84	30	63.8	305	11	US-11-188-298-19310	Sequence 19310, A
85	30	63.8	310	11	US-11-188-298-17885	Sequence 7885, Ap
86	30	63.8	312	11	US-11-188-298-5843	Sequence 5843, Ap
87	30	63.8	321	11	US-11-188-298-8694	Sequence 6994, Ap
88	30	63.8	321	11	US-11-188-298-8128	Sequence 7128, Ap
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91	30	63.8	333	11	US-11-183-664-5	Sequence 5, App1
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94	30	63.8	334	11	US-11-140-417-6	Sequence 8, App1

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96	30	63.8	334	11	US-11-188-298-12511	Sequence 12511, A	169	29	61.7	392	11	US-11-172-740-1006	Sequence 1007, Ap
97	30	63.8	335	8	US-10-511-937-2536	Sequence 2536, Ap	170	29	61.7	395	11	US-11-172-740-1007	Sequence 1007, Ap
98	30	63.8	335	8	US-10-511-937-2560	Sequence 2560, Ap	171	29	61.7	399	11	US-11-096-568A-25702	Sequence 25702, A
99	30	63.8	335	9	US-10-995-561-704	Sequence 704, App	172	29	61.7	399	11	US-11-096-568A-25702	Sequence 25883, A
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102	30	63.8	336	11	US-11-188-298-9158	Sequence 9158, Ap	175	29	61.7	401	11	US-11-096-568A-10141	Sequence 10141, A
103	30	63.8	336	11	US-11-188-298-1212	Sequence 1212, Ap	176	29	61.7	410	11	US-11-096-568A-381	Sequence 381, App
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106	30	63.8	339	11	US-11-188-298-13525	Sequence 13525, A	179	29	61.7	423	11	US-11-045-004-80	Sequence 80, App1
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109	30	63.8	402	9	US-10-858-730-30	Sequence 30, App1	182	29	61.7	489	11	US-11-181-091-8	Sequence 8, App1
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113	30	63.8	592	11	US-11-135-855-24	Sequence 24, App1	186	29	61.7	617	11	US-11-231-706-12	Sequence 12, App1
114	30	63.8	747	11	US-11-188-298-10799	Sequence 10799, A	187	29	61.7	642	9	US-10-491-468-28	Sequence 28, App1
115	30	63.8	749	11	US-11-188-298-13219	Sequence 13219, A	188	29	61.7	721	11	US-11-087-099-10238	Sequence 10238, Ap
116	30	63.8	759	11	US-11-149-003-22	Sequence 22, App1	189	29	61.7	763	11	US-11-079-463-8457	Sequence 8457, Ap
117	30	63.8	1057	11	US-11-149-003-6	Sequence 6, App1	190	29	61.7	769	11	US-11-087-099-4295	Sequence 4295, Ap
118	30	63.8	1192	11	US-11-149-003-18	Sequence 18, App1	191	29	61.7	808	11	US-11-188-298-14977	Sequence 14977, A
119	30	63.8	1207	11	US-11-149-003-20	Sequence 20, App1	192	29	61.7	808	11	US-11-087-099-3367	Sequence 3367, Ap
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122	30	63.8	1477	11	US-11-149-003-8	Sequence 8, App1	195	29	61.7	813	11	US-11-188-298-5401	Sequence 5401, Ap
123	30	63.8	1512	11	US-11-149-003-10	Sequence 10, App1	196	29	61.7	830	11	US-11-087-099-4952	Sequence 4952, Ap
124	30	63.8	1535	11	US-11-149-003-14	Sequence 14, App1	197	29	61.7	830	11	US-11-188-298-4547	Sequence 4547, Ap
125	30	63.8	1570	11	US-11-149-003-12	Sequence 12, App1	198	29	61.7	867	11	US-11-087-099-10404	Sequence 10404, A
126	30	63.8	1593	11	US-11-149-003-4	Sequence 4, App1	199	29	61.7	867	11	US-11-188-298-9601	Sequence 9601, Ap
127	30	63.8	1628	11	US-11-149-003-2	Sequence 2, App1	200	29	61.7	1028	11	US-11-169-041-180	Sequence 180, App
128	30	63.8	3073	11	US-11-143-980-50	Sequence 50, App1	201	29	61.7	1081	11	US-11-051-720-1372	Sequence 1372, Ap
129	29.5	62.8	398	9	US-10-506-454-780	Sequence 780, App	202	29	61.7	1083	11	US-11-188-298-10883	Sequence 10883, A
130	29	61.7	20	9	US-10-623-155-493	Sequence 493, App	203	29	61.7	1453	9	US-10-784-004-344	Sequence 344, App
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137	29	61.7	169	9	US-10-506-454-1273	Sequence 1273, Ap	210	29	61.7	1467	9	US-11-021-603-2	Sequence 2, App1
138	29	61.7	180	11	US-11-155-288-7	Sequence 7, App1	211	29	61.7	1467	9	US-10-821-234-1096	Sequence 1096, Ap
139	29	61.7	186	11	US-11-181-091-6	Sequence 6, App1	212	29	61.7	1736	11	US-11-124-368A-329	Sequence 329, App
140	29	61.7	190	11	US-11-096-568A-25692	Sequence 25692, A	213	29	61.7	1766	11	US-11-075-185-10	Sequence 10, App1
141	29	61.7	192	11	US-11-096-568A-19692	Sequence 19692, A	214	29	61.7	1767	9	US-10-995-561-911	Sequence 911, App
142	29	61.7	204	11	US-11-136-341A-31	Sequence 31, App1	215	29	61.7	1767	9	US-10-995-561-914	Sequence 912, App
143	29	61.7	225	11	US-11-188-298-12886	Sequence 12886, A	216	29	61.7	1806	9	US-10-995-561-912	Sequence 912, App
144	29	61.7	232	11	US-11-096-568A-13168	Sequence 13168, A	217	29	61.7	1806	9	US-10-995-561-915	Sequence 915, App
145	29	61.7	235	11	US-11-104-111-12	Sequence 12, App1	218	29	61.7	1806	11	US-11-051-720-1446	Sequence 1446, Ap
146	29	61.7	237	11	US-11-079-463-5574	Sequence 5574, Ap	219	29	61.7	1806	11	US-11-051-720-1447	Sequence 1447, Ap
147	29	61.7	240	9	US-10-987-663-6	Sequence 6, App1	220	29	61.7	1818	9	US-10-995-561-910	Sequence 910, App
148	29	61.7	240	11	US-11-021-441-28	Sequence 28, App1	221	29	61.7	1818	9	US-10-995-561-913	Sequence 913, App
149	29	61.7	240	11	US-11-136-341A-1	Sequence 1, App1	222	29	61.7	1874	9	US-10-821-234-1182	Sequence 1182, Ap
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151	29	61.7	255	11	US-11-154-744-1	Sequence 1, App1	224	28	59.6	19	9	US-10-939-890-246	Sequence 246, App
152	29	61.7	255	11	US-11-185-877-14	Sequence 14, App1	225	28	59.6	31	11	US-11-245-689-3	Sequence 3, App1
153	29	61.7	271	11	US-11-096-568A-20118	Sequence 20118, A	226	28	59.6	66	11	US-11-096-568A-17649	Sequence 17649, A
154	29	61.7	289	11	US-11-087-099-9566	Sequence 9566, Ap	227	28	59.6	90	11	US-11-245-689-12	Sequence 12, App1
155	29	61.7	290	11	US-11-055-822-50	Sequence 50, App1	228	28	59.6	102	9	US-10-485-788A-731	Sequence 731, App
156	29	61.7	290	11	US-11-239-674-48	Sequence 48, App1	229	28	59.6	104	9	US-11-053-076-101	Sequence 101, App
157	29	61.7	303	11	US-11-079-463-8673	Sequence 8673, Ap	230	28	59.6	104	9	US-10-485-788A-641	Sequence 641, App
158	29	61.7	307	11	US-11-096-568A-3101	Sequence 3101, A	231	28	59.6	104	11	US-11-053-076-9	Sequence 9, App1
159	29	61.7	320	11	US-11-096-568A-21876	Sequence 21876, A	232	28	59.6	118	11	US-11-096-568A-17646	Sequence 17646, A
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161	29	61.7	334	11	US-11-096-568A-20427	Sequence 20427, A	234	28	59.6	126	11	US-11-245-689-4	Sequence 4, App1
162	29	61.7	336	11	US-11-096-568A-20426	Sequence 20426, A	235	28	59.6	129	11	US-11-096-568A-17309	Sequence 17309, A
163	29	61.7	336	11	US-11-096-568A-21875	Sequence 21875, A	236	28	59.6	129	11	US-11-212-443-66	Sequence 66, App1
164	29	61.7	341	11	US-11-079-463-5345	Sequence 5345, Ap	237	28	59.6	130	11	US-11-072-512-2065	Sequence 2065, Ap
165	29	61.7	342	11	US-11-096-568A-31100	Sequence 31300, A	238	28	59.6	135	11	US-11-245-689-11	Sequence 11, App1
166	29	61.7	345	11	US-11-188-298-3539	Sequence 3539, Ap	239	28	59.6	138	11	US-11-079-907-12	Sequence 12, App1
167	29	61.7	353	11	US-11-087-099-7855	Sequence 7855, Ap	240	28	59.6	147	11	US-11-096-568A-17308	Sequence 17308, A

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242	28	59.6	150	11	US-11-245-689-10	Sequence 10, Appl	315	28	59.6	376	11	US-11-227-975-6	Sequence 6, Appl
243	28	59.6	150	11	US-11-096-568A-17207	Sequence 17307, A	316	28	59.6	381	11	US-11-188-298-15196	Sequence 15196, A
244	28	59.6	153	11	US-11-096-568A-12526	Sequence 12526, A	317	28	59.6	394	11	US-11-096-568A-25022	Sequence 25022, A
245	28	59.6	154	11	US-11-072-512-2037	Sequence 2037, Ap	318	28	59.6	407	9	US-10-698-618-1	Sequence 1, Appl
246	28	59.6	159	11	US-11-245-689-30	Sequence 30, Appl	319	28	59.6	429	9	US-10-886-504-2	Sequence 2, Appl
247	28	59.6	160	11	US-11-188-298-3710	Sequence 3710, Ap	320	28	59.6	429	9	US-10-886-504-3	Sequence 3, Appl
248	28	59.6	166	7	US-09-978-360A-632	Sequence 632, App	321	28	59.6	429	9	US-10-886-504-4	Sequence 4, Appl
249	28	59.6	168	11	US-11-079-907-2	Sequence 2, Appl	322	28	59.6	429	9	US-10-886-505-13	Sequence 13, Appl
250	28	59.6	174	9	US-11-245-689-33	Sequence 33, Appl	323	28	59.6	429	9	US-10-886-505-2	Sequence 2, Appl
251	28	59.6	179	9	US-10-467-657-6542	Sequence 6542, Ap	324	28	59.6	429	9	US-10-886-505-3	Sequence 3, Appl
252	28	59.6	185	11	US-11-172-740-1472	Sequence 1472, Ap	325	28	59.6	429	9	US-10-886-505-13	Sequence 13, Appl
253	28	59.6	196	11	US-11-096-568A-14956	Sequence 14956, A	326	28	59.6	429	9	US-10-886-527-2	Sequence 2, Appl
254	28	59.6	200	7	US-09-995-493-74	Sequence 74, Appl	327	28	59.6	429	9	US-10-886-527-3	Sequence 3, Appl
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256	28	59.6	204	11	US-11-087-099-9547	Sequence 9547, Ap	329	28	59.6	429	9	US-10-886-527-13	Sequence 13, Appl
257	28	59.6	204	11	US-11-096-568A-12525	Sequence 12525, A	330	28	59.6	429	9	US-10-886-527-15	Sequence 15, Appl
258	28	59.6	204	11	US-11-096-568A-12187	Sequence 12188, A	331	28	59.6	429	9	US-10-947-612-2	Sequence 2, Appl
259	28	59.6	223	11	US-11-172-740-2187	Sequence 2187, Ap	332	28	59.6	429	9	US-10-947-612-3	Sequence 3, Appl
260	28	59.6	227	11	US-11-232-440-4	Sequence 4, Appl	333	28	59.6	429	9	US-10-947-612-4	Sequence 4, Appl
261	28	59.6	233	11	US-11-096-568A-12524	Sequence 12524, A	334	28	59.6	429	9	US-10-947-612-13	Sequence 13, Appl
262	28	59.6	233	11	US-11-188-298-1950	Sequence 1950, A	335	28	59.6	429	9	US-10-947-612-14	Sequence 14, Appl
263	28	59.6	233	11	US-11-188-298-9047	Sequence 9047, Ap	336	28	59.6	429	9	US-10-947-612-15	Sequence 15, Appl
264	28	59.6	243	11	US-11-096-568A-16539	Sequence 16539, A	337	28	59.6	429	9	US-10-947-612-16	Sequence 16, Appl
265	28	59.6	246	9	US-11-072-512-3459	Sequence 3459, Ap	338	28	59.6	429	9	US-10-947-612-17	Sequence 17, Appl
266	28	59.6	251	11	US-11-067-657-5120	Sequence 5120, Ap	339	28	59.6	429	9	US-10-947-612-18	Sequence 18, Appl
267	28	59.6	251	11	US-11-096-568A-692	Sequence 692, App	340	28	59.6	429	9	US-10-947-612-19	Sequence 19, Appl
268	28	59.6	256	9	US-10-506-454-284	Sequence 284, App	341	28	59.6	429	9	US-10-947-612-20	Sequence 20, Appl
269	28	59.6	259	11	US-11-264-096-3123	Sequence 2123, Ap	342	28	59.6	429	9	US-10-947-612-21	Sequence 21, Appl
270	28	59.6	265	9	US-10-714-887-248	Sequence 248, App	343	28	59.6	429	9	US-10-947-612-22	Sequence 22, Appl
271	28	59.6	265	11	US-11-096-568A-5318	Sequence 5318, Ap	344	28	59.6	429	9	US-10-947-612-23	Sequence 23, Appl
272	28	59.6	267	11	US-11-087-039-12135	Sequence 12135, A	345	28	59.6	429	9	US-10-947-612-24	Sequence 24, Appl
273	28	59.6	272	11	US-11-096-568A-792	Sequence 792, App	346	28	59.6	429	9	US-10-947-612-25	Sequence 25, Appl
274	28	59.6	272	11	US-11-172-740-2171	Sequence 2171, Ap	347	28	59.6	429	9	US-10-947-612-26	Sequence 26, Appl
275	28	59.6	274	11	US-11-096-568A-1420	Sequence 1420, Ap	348	28	59.6	429	9	US-10-947-612-27	Sequence 27, Appl
276	28	59.6	276	11	US-11-079-463-9227	Sequence 9227, Ap	349	28	59.6	429	9	US-10-947-612-28	Sequence 28, Appl
277	28	59.6	277	11	US-11-096-568A-6766	Sequence 6766, Ap	350	28	59.6	429	9	US-10-793-626-1332	Sequence 1332, Ap
278	28	59.6	277	11	US-11-172-740-2172	Sequence 2172, Ap	351	28	59.6	433	11	US-11-188-298-11024	Sequence 11024, A
279	28	59.6	289	11	US-11-096-568A-9208	Sequence 9208, Ap	352	28	59.6	433	11	US-11-188-298-1537	Sequence 1537, A
280	28	59.6	291	11	US-11-096-568A-9047	Sequence 9047, Ap	353	28	59.6	433	11	US-11-188-298-10075	Sequence 10075, A
281	28	59.6	296	11	US-11-096-568A-6765	Sequence 6765, Ap	354	28	59.6	442	11	US-11-096-568A-5236	Sequence 5236, Ap
282	28	59.6	300	9	US-10-467-657-4712	Sequence 4712, Ap	355	28	59.6	451	11	US-11-188-298-15697	Sequence 15697, A
283	28	59.6	301	9	US-10-512-184-37	Sequence 37, Appl	356	28	59.6	451	11	US-11-188-298-22136	Sequence 22136, A
284	28	59.6	306	11	US-11-096-568A-25024	Sequence 25024, A	357	28	59.6	459	11	US-11-188-298-14275	Sequence 14275, A
285	28	59.6	306	11	US-11-096-568A-25030	Sequence 25030, A	358	28	59.6	467	8	US-10-504-120-20	Sequence 20, Appl
286	28	59.6	306	11	US-11-096-568A-27152	Sequence 27152, A	359	28	59.6	474	11	US-11-169-041-172	Sequence 172, App
287	28	59.6	308	11	US-11-096-568A-791	Sequence 791, App	360	28	59.6	481	11	US-11-096-568A-24088	Sequence 24088, A
288	28	59.6	309	11	US-11-096-568A-9046	Sequence 9046, Ap	361	28	59.6	488	11	US-11-096-568A-24087	Sequence 24087, A
289	28	59.6	319	11	US-11-055-822-334	Sequence 334, App	362	28	59.6	500	11	US-11-096-568A-24086	Sequence 24086, A
290	28	59.6	324	9	US-10-698-618-2	Sequence 2, Appl	363	28	59.6	522	11	US-11-096-568A-24086	Sequence 1100, Ap
291	28	59.6	325	8	US-10-511-937-2979	Sequence 2979, Ap	364	28	59.6	522	11	US-11-096-568A-24086	Sequence 1100, Ap
292	28	59.6	328	11	US-11-079-907-4	Sequence 4, Appl	365	28	59.6	527	9	US-10-886-504-7	Sequence 7, Appl
293	28	59.6	330	11	US-11-096-568A-4869	Sequence 4869, Ap	366	28	59.6	527	9	US-10-886-504-8	Sequence 8, Appl
294	28	59.6	333	11	US-11-008-570-39	Sequence 39, Appl	367	28	59.6	527	9	US-10-886-504-9	Sequence 9, Appl
295	28	59.6	333	11	US-11-188-298-9442	Sequence 9442, Ap	368	28	59.6	527	9	US-10-886-504-10	Sequence 10, Appl
296	28	59.6	333	11	US-11-188-298-16165	Sequence 16165, A	369	28	59.6	527	9	US-10-886-505-7	Sequence 7, Appl
297	28	59.6	333	11	US-11-188-298-16325	Sequence 16325, A	370	28	59.6	527	9	US-10-886-505-8	Sequence 8, Appl
298	28	59.6	334	11	US-11-096-568A-4868	Sequence 4868, Ap	371	28	59.6	527	9	US-10-886-505-9	Sequence 9, Appl
299	28	59.6	334	11	US-11-096-568A-17212	Sequence 17212, A	372	28	59.6	527	9	US-10-886-527-7	Sequence 7, Appl
300	28	59.6	334	11	US-11-096-568A-17211	Sequence 17211, A	373	28	59.6	527	9	US-10-886-527-8	Sequence 8, Appl
301	28	59.6	338	11	US-11-096-568A-5237	Sequence 5237, Ap	374	28	59.6	527	9	US-10-886-527-9	Sequence 9, Appl
302	28	59.6	340	11	US-11-096-568A-5237	Sequence 5237, Ap	375	28	59.6	527	9	US-10-886-527-10	Sequence 10, Appl
303	28	59.6	345	11	US-11-087-099-1601	Sequence 1601, Ap	376	28	59.6	527	9	US-10-947-612-7	Sequence 7, Appl
304	28	59.6	345	11	US-11-096-568A-9045	Sequence 9045, Ap	377	28	59.6	527	9	US-10-947-612-8	Sequence 8, Appl
305	28	59.6	351	11	US-11-194-246-327	Sequence 327, App	378	28	59.6	527	9	US-10-947-612-9	Sequence 9, Appl
306	28	59.6	355	11	US-11-096-568A-4867	Sequence 4867, Ap	379	28	59.6	527	9	US-10-947-612-10	Sequence 10, Appl
307	28	59.6	356	11	US-11-096-568A-790	Sequence 790, App	380	28	59.6	530	9	US-10-886-504-1	Sequence 1, Appl
308	28	59.6	362	11	US-11-096-568A-27151	Sequence 27151, A	381	28	59.6	530	9	US-10-886-505-1	Sequence 1, Appl
309	28	59.6	366	11	US-11-096-568A-25023	Sequence 25023, A	382	28	59.6	530	9	US-10-886-527-1	Sequence 1, Appl
310	28	59.6	366	11	US-11-096-568A-25029	Sequence 25029, A	383	28	59.6	531	11	US-10-947-612-1	Sequence 1, Appl
311	28	59.6	370	11	US-11-227-975-2	Sequence 2, Appl	384	28	59.6	531	11	US-11-188-298-5293	Sequence 5293, Ap
312	28	59.6	370	11	US-11-096-568A-5316	Sequence 5316, Ap	385	28	59.6	533	11	US-11-188-298-3364	Sequence 3364, Ap
313	28	59.6	371	11	US-11-227-975-4	Sequence 4, Appl	386	28	59.6	533	11	US-11-188-298-3364	Sequence 4, Appl

387	28	59.6	545	11	US-11-188-298-10764	Sequence 10764, A	460	27	57.4	78	11	US-11-098-686-64	Sequence 64, Appl
388	28	59.6	548	9	US-10-886-504-11	Sequence 11, Appl	461	27	57.4	89	9	US-10-467-657-2164	Sequence 2164, Ap
389	28	59.6	548	9	US-10-886-505-11	Sequence 11, Appl	462	27	57.4	91	11	US-11-096-568-2833	Sequence 2833, Ap
390	28	59.6	548	9	US-10-886-527-11	Sequence 11, Appl	463	27	57.4	91	11	US-11-096-568-2834	Sequence 2834, Ap
391	28	59.6	548	9	US-10-947-612-11	Sequence 11, Appl	464	27	57.4	92	11	US-11-098-686-121	Sequence 121, App
392	28	59.6	551	9	US-10-886-504-5	Sequence 5, Appl	465	27	57.4	96	11	US-11-188-298-19403	Sequence 19403, A
393	28	59.6	551	9	US-10-886-505-5	Sequence 5, Appl	466	27	57.4	99	9	US-10-530-253-14	Sequence 34, Appl
394	28	59.6	551	9	US-10-886-527-5	Sequence 5, Appl	467	27	57.4	112	11	US-11-096-568-2832	Sequence 2832, Ap
395	28	59.6	551	9	US-10-947-612-5	Sequence 5, Appl	468	27	57.4	125	11	US-11-096-568-13387	Sequence 13387, A
396	28	59.6	559	11	US-11-188-298-8183	Sequence 8183, Ap	469	27	57.4	129	11	US-11-245-689-27	Sequence 27, Appl
397	28	59.6	559	11	US-11-188-298-12206	Sequence 12206, A	470	27	57.4	136	11	US-11-188-298-16394	Sequence 16394, A
398	28	59.6	566	11	US-11-188-298-14331	Sequence 14331, A	471	27	57.4	138	9	US-10-745-586-172	Sequence 172, App
399	28	59.6	569	9	US-10-512-184-66	Sequence 66, Appl	472	27	57.4	138	11	US-11-245-689-2	Sequence 2, Appl
400	28	59.6	575	9	US-10-512-184-65	Sequence 65, Appl	473	27	57.4	142	11	US-11-052-554-134	Sequence 334, App
401	28	59.6	615	9	US-10-512-184-50	Sequence 50, Appl	474	27	57.4	145	11	US-11-096-568-23066	Sequence 23066, A
402	28	59.6	618	9	US-10-512-184-48	Sequence 48, Appl	475	27	57.4	155	9	US-10-784-004-744	Sequence 744, App
403	28	59.6	621	9	US-10-131-826A-40	Sequence 40, Appl	476	27	57.4	161	11	US-11-072-512-2082	Sequence 2082, Ap
404	28	59.6	621	9	US-10-973-115B-40	Sequence 40, Appl	477	27	57.4	161	11	US-11-072-512-3889	Sequence 3889, Ap
405	28	59.6	621	9	US-10-137-873A-40	Sequence 40, Appl	478	27	57.4	166	11	US-11-096-568-13462	Sequence 13462, A
406	28	59.6	621	9	US-10-153-370-40	Sequence 40, Appl	479	27	57.4	168	11	US-11-372-757-2	Sequence 2, Appl
407	28	59.6	621	11	US-11-290-153-40	Sequence 40, Appl	480	27	57.4	176	11	US-11-305-667-4	Sequence 4, Appl
408	28	59.6	623	11	US-11-087-099-495	Sequence 495, App	481	27	57.4	184	11	US-11-264-096-572	Sequence 572, App
409	28	59.6	625	9	US-10-512-184-47	Sequence 47, Appl	482	27	57.4	190	11	US-11-096-568-13461	Sequence 13461, A
410	28	59.6	626	9	US-10-512-184-49	Sequence 49, Appl	483	27	57.4	194	11	US-11-098-686-11179	Sequence 11179, A
411	28	59.6	678	9	US-10-533-066-3	Sequence 3, Appl	484	27	57.4	195	11	US-11-087-099-1282	Sequence 1282, Ap
412	28	59.6	692	11	US-11-188-298-11563	Sequence 11563, A	485	27	57.4	196	11	US-11-188-298-21673	Sequence 21673, A
413	28	59.6	698	11	US-11-188-298-20359	Sequence 20359, A	486	27	57.4	199	11	US-11-087-099-87427	Sequence 87427, Ap
414	28	59.6	742	11	US-11-087-099-7459	Sequence 7459, Ap	487	27	57.4	207	11	US-11-096-568-7347	Sequence 7347, Ap
415	28	59.6	742	11	US-11-188-298-6837	Sequence 6837, Ap	488	27	57.4	211	9	US-10-454-437-242	Sequence 242, App
416	28	59.6	745	11	US-11-188-298-1275	Sequence 1275, Ap	489	27	57.4	212	11	US-11-096-568-13085	Sequence 13085, A
417	28	59.6	745	11	US-11-188-298-13969	Sequence 13969, A	490	27	57.4	214	11	US-11-098-686-11115	Sequence 11115, A
418	28	59.6	767	11	US-11-079-463-8192	Sequence 8192, Ap	491	27	57.4	215	11	US-11-188-298-6844	Sequence 6844, Ap
419	28	59.6	824	11	US-11-090-617-657	Sequence 657, App	492	27	57.4	218	11	US-11-096-568-7346	Sequence 7346, Ap
420	28	59.6	839	9	US-10-995-561-983	Sequence 983, App	493	27	57.4	224	11	US-11-045-004-1826	Sequence 1826, Ap
421	28	59.6	839	11	US-11-079-463-9799	Sequence 9799, Ap	494	27	57.4	231	9	US-10-467-657-4662	Sequence 4662, Ap
422	28	59.6	840	11	US-11-120-308-134	Sequence 134, App	495	27	57.4	236	11	US-11-179-411-14	Sequence 14, Appl
423	28	59.6	918	9	US-10-995-561-981	Sequence 981, App	496	27	57.4	236	11	US-11-175-766-14	Sequence 14, Appl
424	28	59.6	943	9	US-10-821-234-1012	Sequence 1012, Ap	497	27	57.4	238	11	US-11-211-039-14	Sequence 14, Appl
425	28	59.6	1019	9	US-10-995-561-982	Sequence 982, App	498	27	57.4	238	11	US-11-156-004-221	Sequence 221, App
426	28	59.6	1166	9	US-10-821-234-964	Sequence 964, App	499	27	57.4	249	9	US-10-784-004-338	Sequence 338, App
427	28	59.6	1238	11	US-11-078-735-21	Sequence 21, Appl	500	27	57.4	250	11	US-11-054-515-1560	Sequence 1560, Ap
428	28	59.6	1238	11	US-11-050-346-66	Sequence 66, Appl	501	27	57.4	250	11	US-11-266-444-1560	Sequence 1560, Ap
429	28	59.6	1238	11	US-11-103-077-21	Sequence 21, Appl	502	27	57.4	252	11	US-11-096-568-18219	Sequence 18219, A
430	28	59.6	1238	11	US-11-058-066-21	Sequence 21, Appl	503	27	57.4	253	11	US-11-096-568-13084	Sequence 13084, A
431	28	59.6	1466	11	US-11-186-284-33	Sequence 33, Appl	504	27	57.4	255	10	US-11-301-554-1806	Sequence 1806, Ap
432	28	59.6	1490	11	US-11-188-298-4123	Sequence 4123, Ap	505	27	57.4	263	10	US-11-181-115-37	Sequence 37, Appl
433	28	59.6	1564	11	US-11-050-857-943	Sequence 943, App	506	27	57.4	267	9	US-10-644-807-390	Sequence 390, App
434	28	59.6	1655	11	US-11-050-857-942	Sequence 942, App	507	27	57.4	269	9	US-10-467-657-5000	Sequence 5000, Ap
435	28	59.6	1660	11	US-11-052-554A-137	Sequence 137, App	508	27	57.4	269	9	US-10-467-657-7302	Sequence 7302, Ap
436	28	59.6	1637	11	US-11-231-599-55	Sequence 55, Appl	509	27	57.4	275	9	US-10-506-454-118	Sequence 118, App
437	28	59.6	1837	11	US-11-050-857-940	Sequence 940, Appl	510	27	57.4	275	9	US-10-506-454-1420	Sequence 1420, Ap
438	28	59.6	1928	11	US-11-050-857-939	Sequence 939, App	511	27	57.4	276	11	US-11-038-901-19	Sequence 19, Appl
439	28	59.6	2065	11	US-11-050-857-945	Sequence 945, App	512	27	57.4	277	9	US-10-996-0078-13	Sequence 13, Appl
440	28	59.6	2067	11	US-11-050-857-944	Sequence 944, App	513	27	57.4	277	9	US-10-996-0078-16	Sequence 16, Appl
441	28	59.6	2091	11	US-11-050-857-941	Sequence 941, App	514	27	57.4	277	9	US-10-996-0078-16	Sequence 16, Appl
442	28	59.6	2110	11	US-11-050-857-937	Sequence 937, App	515	27	57.4	280	11	US-11-188-298-3932	Sequence 3932, Ap
443	28	59.6	2110	11	US-11-050-857-938	Sequence 938, App	516	27	57.4	280	11	US-11-188-298-6845	Sequence 6845, Ap
444	28	59.6	2201	11	US-11-050-857-933	Sequence 933, App	517	27	57.4	280	11	US-11-188-298-18731	Sequence 18731, A
445	28	59.6	2201	11	US-11-050-857-1150	Sequence 1150, Ap	518	27	57.4	281	11	US-11-188-298-1189	Sequence 1189, Ap
446	28	59.6	2293	11	US-11-050-857-934	Sequence 934, App	519	27	57.4	281	11	US-11-188-298-21360	Sequence 21360, A
447	28	59.6	3597	11	US-11-019-711-6	Sequence 6, Appl	520	27	57.4	283	11	US-11-087-099-8644	Sequence 8644, Ap
448	28	59.6	3600	11	US-11-019-711-2	Sequence 2, Appl	521	27	57.4	294	11	US-11-072-512-2068	Sequence 2068, Ap
449	28	59.6	3690	9	US-10-995-561-1016	Sequence 1016, Ap	522	27	57.4	295	9	US-10-644-807-991	Sequence 991, App
450	28	59.6	3714	9	US-10-995-561-1015	Sequence 1015, Ap	523	27	57.4	296	9	US-10-506-454-83	Sequence 83, Appl
451	28	59.6	3717	9	US-10-821-234-1076	Sequence 1076, Ap	524	27	57.4	301	11	US-11-172-740-820	Sequence 820, App
452	28	59.6	8746	11	US-11-098-686-10232	Sequence 10232, A	525	27	57.4	309	11	US-11-096-568-17636	Sequence 17636, A
453	27.5	58.5	665	11	US-11-040-595-6	Sequence 6, Appl	526	27	57.4	304	11	US-11-188-298-1167	Sequence 1167, Ap
454	27.5	58.5	665	11	US-11-072-512-3377	Sequence 3377, Ap	527	27	57.4	304	11	US-11-188-298-15096	Sequence 15096, A
455	27	57.4	9	9	US-10-530-061-166	Sequence 166, App	528	27	57.4	308	11	US-11-096-568-7345	Sequence 7345, Ap
456	27	57.4	56	9	US-11-043-806-548	Sequence 548, App	529	27	57.4	310	9	US-10-506-454-1487	Sequence 1487, Ap
457	27	57.4	60	11	US-10-986-501-164	Sequence 164, App	530	27	57.4	318	9	US-10-986-405-307	Sequence 307, App
458	27	57.4	60	11	US-11-202-057-21	Sequence 21, Appl	531	27	57.4	320	11	US-11-096-568-17635	Sequence 17635, A
459	27	57.4	72	11	US-11-053-076-316	Sequence 316, App	532	27	57.4	322	9	US-10-821-234-1354	Sequence 1354, Ap

533	27	57.4	322	9	US-10-878-556A-59	Sequence 59, Appl	606	27	57.4	479	11	US-11-188-298-13970	Sequence 13970, A
534	27	57.4	323	11	US-11-096-568A-17099	Sequence 17099, A	607	27	57.4	482	9	US-10-689-742-66	Sequence 66, Appl
535	27	57.4	323	11	US-11-096-568A-17634	Sequence 17634, A	608	27	57.4	483	11	US-11-087-099-7480	Sequence 7480, Ap
536	27	57.4	327	9	US-10-821-234-884	Sequence 884, App	609	27	57.4	485	9	US-10-630-203-4	Sequence 4, Appl
537	27	57.4	328	11	US-11-188-298-6694	Sequence 6694, Ap	610	27	57.4	485	9	US-10-779-418-2	Sequence 2, Appl
538	27	57.4	329	11	US-11-188-298-19420	Sequence 19420, A	611	27	57.4	485	11	US-11-103-037-2	Sequence 2, Appl
539	27	57.4	331	9	US-10-432-483-25	Sequence 25, Appl	612	27	57.4	485	11	US-11-195-338-2	Sequence 1, Appl
540	27	57.4	333	9	US-10-454-437-392	Sequence 392, App	613	27	57.4	486	11	US-11-188-298-17488	Sequence 17488, A
541	27	57.4	334	11	US-11-188-298-21665	Sequence 21665, A	614	27	57.4	488	11	US-11-188-298-16377	Sequence 16347, A
542	27	57.4	337	11	US-11-008-570-126	Sequence 126, App	615	27	57.4	489	11	US-11-087-099-11342	Sequence 11342, A
543	27	57.4	337	11	US-11-188-298-16137	Sequence 16137, A	616	27	57.4	493	11	US-11-188-298-8448	Sequence 8448, App
544	27	57.4	338	11	US-11-096-568A-8174	Sequence 8174, Ap	617	27	57.4	513	11	US-11-000-463-458	Sequence 6, Appl
545	27	57.4	342	11	US-11-096-568A-21151	Sequence 21151, A	618	27	57.4	514	9	US-10-218-784-6	Sequence 6, Appl
546	27	57.4	346	9	US-10-755-092-19	Sequence 19, Appl	619	27	57.4	514	9	US-10-219-061-6	Sequence 6, Appl
547	27	57.4	356	11	US-11-188-298-6239	Sequence 6239, Ap	620	27	57.4	514	9	US-10-219-062-6	Sequence 6, Appl
548	27	57.4	357	11	US-11-165-466-2	Sequence 2, Appl	621	27	57.4	514	9	US-10-219-064-6	Sequence 6, Appl
549	27	57.4	357	11	US-11-165-466-2	Sequence 2, Appl	622	27	57.4	514	9	US-10-233-134-6	Sequence 6, Appl
550	27	57.4	359	11	US-11-096-568A-18217	Sequence 18217, A	623	27	57.4	525	11	US-11-188-298-11915	Sequence 11915, A
551	27	57.4	363	11	US-11-096-568A-22583	Sequence 22583, A	624	27	57.4	526	11	US-11-079-463-9188	Sequence 9188, Ap
552	27	57.4	365	11	US-11-096-568A-18844	Sequence 18844, A	625	27	57.4	528	9	US-10-878-556A-77	Sequence 77, Appl
553	27	57.4	369	9	US-10-644-807-206	Sequence 206, App	626	27	57.4	532	11	US-11-120-308-72	Sequence 72, Appl
554	27	57.4	374	11	US-11-060-023-10	Sequence 10, Appl	627	27	57.4	536	11	US-11-087-099-6067	Sequence 4667, Ap
555	27	57.4	374	11	US-11-228-364-2	Sequence 2, Appl	628	27	57.4	537	11	US-11-188-298-16374	Sequence 16374, A
556	27	57.4	374	11	US-11-169-041-188	Sequence 188, App	629	27	57.4	549	11	US-11-079-463-6816	Sequence 6816, Ap
557	27	57.4	374	11	US-11-201-519-6	Sequence 6, Appl	630	27	57.4	554	11	US-11-087-099-2410	Sequence 2410, Ap
558	27	57.4	374	11	US-11-227-086-39	Sequence 40, Appl	631	27	57.4	557	9	US-10-821-234-1593	Sequence 1593, Ap
559	27	57.4	374	11	US-11-096-568A-26913	Sequence 26913, A	632	27	57.4	575	9	US-10-131-826A-128	Sequence 128, App
560	27	57.4	375	11	US-11-213-368-6	Sequence 6, Appl	633	27	57.4	575	9	US-10-137-873A-128	Sequence 128, App
561	27	57.4	376	11	US-11-213-368-14	Sequence 14, Appl	634	27	57.4	575	9	US-10-137-873A-128	Sequence 128, App
562	27	57.4	376	11	US-11-238-025-36	Sequence 36, Appl	635	27	57.4	575	9	US-10-152-370-128	Sequence 128, App
563	27	57.4	376	11	US-11-238-025-36	Sequence 36, Appl	636	27	57.4	584	11	US-11-290-153-128	Sequence 44, Appl
564	27	57.4	377	11	US-11-096-568A-8173	Sequence 8173, Ap	637	27	57.4	584	11	US-11-120-308-44	Sequence 54, Appl
565	27	57.4	379	9	US-10-525-674-16	Sequence 16, Appl	638	27	57.4	596	11	US-11-072-512-2675	Sequence 2675, Ap
566	27	57.4	379	9	US-10-525-674-18	Sequence 18, Appl	639	27	57.4	597	11	US-11-079-463-9878	Sequence 9878, Ap
567	27	57.4	382	9	US-10-506-454-40	Sequence 40, Appl	640	27	57.4	623	11	US-11-087-099-5188	Sequence 5188, Ap
568	27	57.4	384	11	US-11-074-176-78	Sequence 78, Appl	641	27	57.4	623	9	US-10-784-004-4478	Sequence 428, App
569	27	57.4	387	11	US-11-096-568A-8172	Sequence 8172, Ap	642	27	57.4	636	11	US-11-120-308-52	Sequence 52, Appl
570	27	57.4	392	11	US-11-249-993-14	Sequence 14, Appl	643	27	57.4	654	11	US-11-120-308-52	Sequence 11, Appl
571	27	57.4	393	11	US-11-188-298-21713	Sequence 21713, A	644	27	57.4	661	8	US-11-489-730-11	Sequence 31, App
572	27	57.4	394	11	US-11-188-298-13803	Sequence 13803, A	645	27	57.4	683	11	US-11-264-096-119	Sequence 18, Appl
573	27	57.4	396	11	US-11-087-099-6735	Sequence 6735, Ap	646	27	57.4	691	11	US-11-274-344-18	Sequence 27412, A
574	27	57.4	396	11	US-11-087-099-8635	Sequence 8635, Ap	647	27	57.4	708	11	US-11-096-568A-27412	Sequence 2939, Ap
575	27	57.4	396	11	US-11-146-428-44	Sequence 44, Appl	648	27	57.4	718	8	US-10-511-931-2939	Sequence 227, App
576	27	57.4	399	11	US-11-146-428-45	Sequence 45, Appl	649	27	57.4	724	11	US-11-024-959-273	Sequence 497, App
577	27	57.4	399	11	US-11-096-568A-26912	Sequence 26912, A	650	27	57.4	729	9	US-10-506-454-497	Sequence 1373, Ap
578	27	57.4	403	11	US-11-024-959-465	Sequence 465, App	651	27	57.4	730	9	US-10-216-162A-102	Sequence 102, App
579	27	57.4	403	11	US-11-264-096-574	Sequence 574, App	652	27	57.4	738	11	US-11-051-720-1374	Sequence 1374, Ap
580	27	57.4	405	11	US-11-188-298-13109	Sequence 13109, A	653	27	57.4	755	9	US-10-455-772-84	Sequence 84, Appl
581	27	57.4	407	11	US-11-096-568A-1906	Sequence 1906, Ap	654	27	57.4	759	11	US-11-188-298-18618	Sequence 18618, A
582	27	57.4	407	11	US-11-096-568A-22582	Sequence 22582, A	655	27	57.4	780	11	US-11-096-568A-29956	Sequence 29956, A
583	27	57.4	409	11	US-11-188-298-8732	Sequence 8732, Ap	656	27	57.4	791	11	US-11-072-512-2307	Sequence 29955, A
584	27	57.4	411	11	US-11-024-959-330	Sequence 330, App	657	27	57.4	797	11	US-11-096-568A-29955	Sequence 10, Appl
585	27	57.4	411	11	US-11-096-568A-18843	Sequence 18843, A	658	27	57.4	802	11	US-11-201-519-10	Sequence 4407, Ap
586	27	57.4	416	11	US-11-096-568A-1905	Sequence 1905, Ap	659	27	57.4	809	11	US-11-096-568A-27535	Sequence 27534, A
587	27	57.4	419	11	US-11-096-568A-26911	Sequence 26911, A	660	27	57.4	820	11	US-11-096-568A-27534	Sequence 29954, A
588	27	57.4	422	11	US-11-120-308-40	Sequence 40, Appl	661	27	57.4	838	11	US-11-096-568A-27533	Sequence 27533, A
589	27	57.4	428	11	US-11-188-298-20204	Sequence 20204, A	662	27	57.4	863	11	US-11-096-568A-10288	Sequence 10288, A
590	27	57.4	430	11	US-11-172-740-330	Sequence 330, App	663	27	57.4	900	11	US-10-491-468-16	Sequence 16, Appl
591	27	57.4	430	11	US-11-172-740-331	Sequence 1904, App	664	27	57.4	938	9	US-11-096-568A-27411	Sequence 27411, A
592	27	57.4	433	11	US-11-096-568A-1904	Sequence 1904, App	665	27	57.4	940	11	US-11-096-568A-27410	Sequence 27410, A
593	27	57.4	438	11	US-11-087-099-10527	Sequence 10527, A	666	27	57.4	1006	11	US-11-096-568A-27410	Sequence 2425, Ap
594	27	57.4	442	9	US-10-501-035-388	Sequence 388, App	667	27	57.4	1006	8	US-10-511-931-2425	Sequence 90, Appl
595	27	57.4	445	9	US-10-677-657-3816	Sequence 3816, Ap	668	27	57.4	1019	9	US-11-203-251A-90	Sequence 1120, Ap
596	27	57.4	445	11	US-11-087-099-10261	Sequence 10261, A	669	27	57.4	1019	9	US-10-455-772-1120	Sequence 14765, A
597	27	57.4	445	11	US-11-264-096-1147	Sequence 1147, Ap	670	27	57.4	1066	11	US-11-108-172-692	Sequence 692, App
598	27	57.4	458	11	US-11-087-099-2471	Sequence 2471, Ap	671	27	57.4	1066	11	US-11-108-172-692	Sequence 12891, A
599	27	57.4	464	11	US-11-096-568A-12965	Sequence 12965, A	672	27	57.4	1210	11	US-11-188-298-12891	Sequence 19177, A
600	27	57.4	473	11	US-11-087-099-7092	Sequence 7092, Ap	673	27	57.4	1241	11	US-11-188-298-19177	Sequence 344, App
601	27	57.4	473	11	US-11-188-298-7389	Sequence 7389, Ap	674	27	57.4	1415	11	US-11-043-806-344	Sequence 3, Appl
602	27	57.4	476	11	US-11-087-099-1174	Sequence 1174, Ap	675	27	57.4	1487	11	US-11-202-057-3	Sequence 5, Appl
603	27	57.4	479	11	US-11-087-099-1821	Sequence 1821, Ap	676	27	57.4	1487	11	US-11-202-057-3	Sequence 5, Appl
604	27	57.4	479	11	US-11-087-099-3111	Sequence 3111, Ap	677	27	57.4	1487	11	US-11-202-057-3	Sequence 5, Appl
605	27	57.4	479	11	US-11-188-298-1810	Sequence 1810, Ap	678	27	57.4	1487	11	US-11-202-057-3	Sequence 5, Appl

679	27	57.4	1487	11	US-11-202-057-7	Sequence 7, Appl1	752	26	55.3	160	11	US-11-096-568A-23778	Sequence 23778, A
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681	27	57.4	1516	9	US-10-220-824-8	Sequence 8, Appl1	754	26	55.3	162	11	US-11-096-568A-14219	Sequence 14219, A
682	27	57.4	1532	9	US-10-821-234-914	Sequence 914, App	755	26	55.3	165	11	US-11-245-689-20	Sequence 20, Appl1
683	27	57.4	1548	11	US-11-108-172-1095	Sequence 1095, Ap	756	26	55.3	165	11	US-11-245-689-26	Sequence 26, Appl1
684	27	57.4	1822	8	US-10-505-928-700	Sequence 700, App	757	26	55.3	165	11	US-11-079-463-8005	Sequence 8005, Ap
685	27	57.4	1822	11	US-11-169-041-193	Sequence 193, App	758	26	55.3	176	9	US-10-995-561-821	Sequence 821, App
686	27	57.4	1826	9	US-10-330-773-489	Sequence 489, App	759	26	55.3	177	9	US-11-245-689-17	Sequence 17, Appl1
687	27	57.4	1857	9	US-10-055-877-252	Sequence 252, App	760	26	55.3	179	11	US-11-096-568A-25088	Sequence 25088, A
688	27	57.4	1897	11	US-11-096-568A-28325	Sequence 28325, A	761	26	55.3	181	11	US-11-031-206-132	Sequence 132, App
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690	27	57.4	2084	9	US-10-055-877-73	Sequence 73, Appl1	763	26	55.3	188	9	US-10-821-072-941	Sequence 941, App
691	27	57.4	2109	9	US-10-055-877-251	Sequence 251, App	764	26	55.3	189	11	US-11-072-512-3254	Sequence 3254, Ap
692	27	57.4	2154	11	US-11-096-568A-28323	Sequence 28323, A	765	26	55.3	190	11	US-11-096-568A-26722	Sequence 26722, A
693	27	57.4	2314	11	US-11-097-728-2	Sequence 2, Appl1	766	26	55.3	193	11	US-11-072-512-3833	Sequence 3833, Ap
694	27	57.4	2353	11	US-11-097-728-6	Sequence 6, Appl1	767	26	55.3	195	11	US-11-096-568A-1241	Sequence 1241, Ap
695	27	57.4	2767	11	US-11-100-640-38	Sequence 38, Appl1	768	26	55.3	195	11	US-11-096-568A-14743	Sequence 14743, A
696	27	57.4	2768	9	US-10-510-101-72	Sequence 72, Appl1	769	26	55.3	195	11	US-11-096-568A-26956	Sequence 26956, A
697	27	57.4	3375	11	US-11-044-111-23	Sequence 23, Appl1	770	26	55.3	198	11	US-11-245-689-42	Sequence 42, Appl1
698	27	57.4	4868	11	US-11-044-111-23	Sequence 24, Appl1	771	26	55.3	198	11	US-11-087-099-9777	Sequence 9777, Ap
699	27	57.4	4868	8	US-10-505-928-150	Sequence 150, App	772	26	55.3	198	11	US-11-096-568A-5187	Sequence 5187, Ap
700	27	57.4	5738	8	US-11-205-109-15	Sequence 15, Appl1	773	26	55.3	201	11	US-11-096-568A-25965	Sequence 25965, A
701	26.5	56.4	8695	9	US-11-205-109-15	Sequence 2566, Ap	774	26	55.3	205	11	US-11-188-298-18122	Sequence 18122, A
702	26	55.3	179	9	US-10-623-155-492	Sequence 492, App	775	26	55.3	206	9	US-10-467-657-3730	Sequence 3730, App
703	26	55.3	20	9	US-11-168-187-6	Sequence 6, Appl1	776	26	55.3	206	11	US-11-124-367A-316	Sequence 316, App
704	26	55.3	25	11	US-11-169-111-6	Sequence 6, Appl1	777	26	55.3	206	11	US-11-096-568A-23691	Sequence 23691, A
705	26	55.3	53	9	US-10-467-657-1822	Sequence 1822, Appl1	778	26	55.3	208	11	US-11-264-096-1650	Sequence 1650, Ap
706	26	55.3	60	11	US-11-202-057-13	Sequence 13, Appl1	779	26	55.3	208	11	US-11-096-568A-11501	Sequence 11501, A
707	26	55.3	60	11	US-11-202-057-18	Sequence 18, Appl1	780	26	55.3	210	9	US-10-784-004-731	Sequence 731, App
708	26	55.3	60	11	US-11-202-057-23	Sequence 23, Appl1	781	26	55.3	211	11	US-11-087-099-2090	Sequence 2090, Ap
709	26	55.3	60	11	US-11-202-057-24	Sequence 24, Appl1	782	26	55.3	212	11	US-11-096-568A-95442	Sequence 9542, Ap
710	26	55.3	63	9	US-10-929-117-20	Sequence 20, Appl1	783	26	55.3	213	9	US-10-467-657-3394	Sequence 3394, Ap
711	26	55.3	71	9	US-10-506-443A-100	Sequence 100, App	784	26	55.3	215	11	US-11-096-568A-5186	Sequence 5186, Ap
712	26	55.3	79	11	US-11-168-288-15008	Sequence 15008, A	785	26	55.3	216	9	US-10-242-586-38	Sequence 38, Appl1
713	26	55.3	79	11	US-11-245-689-9	Sequence 9, Appl1	786	26	55.3	216	9	US-10-242-902-88	Sequence 38, Appl1
714	26	55.3	87	11	US-11-031-206-130	Sequence 130, App	787	26	55.3	216	9	US-10-243-116-88	Sequence 38, Appl1
715	26	55.3	92	8	US-10-370-959-44	Sequence 44, Appl1	788	26	55.3	216	9	US-10-243-116-88	Sequence 38, Appl1
716	26	55.3	92	11	US-11-188-288-11450	Sequence 11450, A	789	26	55.3	216	9	US-10-243-189-38	Sequence 38, Appl1
717	26	55.3	92	11	US-11-188-288-13384	Sequence 13384, A	790	26	55.3	216	9	US-10-243-215-38	Sequence 38, Appl1
718	26	55.3	92	11	US-11-188-288-19074	Sequence 19074, A	791	26	55.3	216	9	US-10-243-226-38	Sequence 38, Appl1
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720	26	55.3	97	9	US-10-530-253-29	Sequence 29, Appl1	793	26	55.3	216	9	US-10-243-318-38	Sequence 38, Appl1
721	26	55.3	99	11	US-11-190-188-1	Sequence 1, Appl1	794	26	55.3	216	9	US-10-243-345-38	Sequence 38, Appl1
722	26	55.3	102	11	US-11-245-689-8	Sequence 8, Appl1	795	26	55.3	216	9	US-10-243-357-38	Sequence 38, Appl1
723	26	55.3	106	9	US-10-506-443A-64	Sequence 64, Appl1	796	26	55.3	216	9	US-10-243-357-38	Sequence 38, Appl1
724	26	55.3	107	9	US-10-821-234-1679	Sequence 1679, Ap	797	26	55.3	216	9	US-10-245-063-38	Sequence 38, Appl1
725	26	55.3	112	11	US-11-264-096-723	Sequence 723, App	798	26	55.3	216	9	US-10-247-015-38	Sequence 38, Appl1
726	26	55.3	112	11	US-11-264-096-727	Sequence 727, App	799	26	55.3	217	9	US-10-467-657-8174	Sequence 8174, Ap
727	26	55.3	114	11	US-11-245-689-7	Sequence 7, Appl1	800	26	55.3	219	9	US-10-330-773-633	Sequence 633, App
728	26	55.3	114	11	US-11-245-689-21	Sequence 21, Appl1	801	26	55.3	219	11	US-11-096-568A-10761	Sequence 10761, A
729	26	55.3	116	11	US-11-096-568A-3581	Sequence 3581, Ap	802	26	55.3	222	11	US-11-245-689-40	Sequence 40, Appl1
730	26	55.3	124	9	US-10-194-487-154	Sequence 154, App	803	26	55.3	223	9	US-10-330-773-874	Sequence 974, App
731	26	55.3	124	9	US-10-195-883-154	Sequence 154, App	804	26	55.3	225	11	US-11-232-440-3	Sequence 3, Appl1
732	26	55.3	124	9	US-10-195-888-154	Sequence 154, App	805	26	55.3	226	11	US-11-151-601-29	Sequence 29, Appl1
733	26	55.3	124	9	US-10-195-888-154	Sequence 154, App	806	26	55.3	226	11	US-11-151-601-37	Sequence 37, Appl1
734	26	55.3	124	9	US-10-216-161A-346	Sequence 346, App	807	26	55.3	228	11	US-11-188-298-12956	Sequence 12956, A
735	26	55.3	126	11	US-11-045-004-1985	Sequence 1985, Ap	808	26	55.3	229	9	US-11-188-298-113055	Sequence 13055, A
736	26	55.3	128	11	US-11-096-568A-14728	Sequence 14728, A	809	26	55.3	230	9	US-10-873-588-187	Sequence 187, App
737	26	55.3	129	11	US-11-096-568A-25511	Sequence 25511, A	810	26	55.3	233	11	US-11-096-568A-26964	Sequence 26964, A
738	26	55.3	133	11	US-11-188-298-10580	Sequence 10580, A	811	26	55.3	235	11	US-11-019-995-5	Sequence 5, Appl1
739	26	55.3	134	11	US-11-096-568A-26957	Sequence 26957, A	812	26	55.3	236	11	US-11-096-568A-4741	Sequence 4741, Appl1
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741	26	55.3	138	11	US-11-096-568A-3580	Sequence 3580, Ap	814	26	55.3	240	11	US-11-096-568A-5185	Sequence 5185, Ap
742	26	55.3	138	11	US-11-096-568A-14727	Sequence 14727, A	815	26	55.3	240	11	US-11-096-568A-25087	Sequence 25087, A
743	26	55.3	141	11	US-11-245-689-25	Sequence 25, Appl1	816	26	55.3	243	11	US-11-096-568A-14742	Sequence 14742, A
744	26	55.3	142	11	US-11-096-568A-23779	Sequence 23779, A	817	26	55.3	243	11	US-11-096-568A-23885	Sequence 23885, A
745	26	55.3	143	9	US-10-506-454-814	Sequence 814, App	818	26	55.3	248	9	US-10-067-974-6	Sequence 6, Appl1
746	26	55.3	147	9	US-10-506-454-681	Sequence 681, App	819	26	55.3	248	11	US-11-055-822-36	Sequence 36, Appl1
747	26	55.3	149	9	US-10-506-454-1618	Sequence 1618, App	820	26	55.3	248	11	US-11-239-674-34	Sequence 34, Appl1
748	26	55.3	152	9	US-10-467-657-4778	Sequence 4778, Ap	821	26	55.3	249	11	US-11-096-568A-20544	Sequence 20544, A
749	26	55.3	152	11	US-11-096-568A-1242	Sequence 1242, Ap	822	26	55.3	250	11	US-11-087-099-2834	Sequence 2834, Ap
750	26	55.3	153	11	US-11-188-298-9082	Sequence 9082, Ap	823	26	55.3	252	11	US-11-096-568A-22161	Sequence 22161, A
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826	26	55.3	255	11	US-11-096-568A-28882	Sequence 28882, A	899	26	55.3	363	11	US-11-188-298-15371	Sequence 15371, A
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828	26	55.3	261	11	US-11-227-543-4	Sequence 4, Appl1	901	26	55.3	368	11	US-11-072-512-3805	Sequence 3805, Ap
829	26	55.3	264	11	US-11-096-568A-9541	Sequence 9541, Ap	902	26	55.3	370	11	US-11-188-298-11179	Sequence 11179, A
830	26	55.3	268	11	US-11-096-568A-22160	Sequence 22160, A	903	26	55.3	371	11	US-11-087-099-5578	Sequence 5578, Ap
831	26	55.3	268	11	US-11-188-298-20342	Sequence 20342, A	904	26	55.3	371	11	US-11-188-298-16133	Sequence 16133, A
832	26	55.3	270	11	US-11-096-568A-16837	Sequence 16837, A	905	26	55.3	373	11	US-11-096-568A-11499	Sequence 11499, A
833	26	55.3	273	11	US-11-096-568A-7031	Sequence 7031, Ap	906	26	55.3	374	11	US-11-096-568A-23689	Sequence 23689, A
834	26	55.3	273	11	US-11-096-568A-23690	Sequence 23690, A	907	26	55.3	376	9	US-10-971-994-2	Sequence 2, Appl1
835	26	55.3	284	11	US-11-096-568A-17725	Sequence 17725, A	908	26	55.3	376	11	US-11-217-137-6	Sequence 6, Appl1
836	26	55.3	285	11	US-11-146-093-15	Sequence 15, Appl	909	26	55.3	377	11	US-11-227-543-55	Sequence 55, Appl
837	26	55.3	285	11	US-11-051-720-1493	Sequence 1493, Ap	910	26	55.3	376	11	US-11-188-298-11735	Sequence 11735, A
838	26	55.3	287	11	US-11-096-568A-4740	Sequence 4740, Ap	911	26	55.3	379	9	US-10-858-730-22	Sequence 22, Appl
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840	26	55.3	293	11	US-11-096-568A-9540	Sequence 9540, Ap	913	26	55.3	381	9	US-10-525-674-20	Sequence 20, Appl
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971 26 55.3 484 9 US-10-467-657-5472 Sequence 5472, Ap
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989 26 55.3 521 11 US-11-079-463-7443 Sequence 7443, Ap
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993 26 55.3 523 11 US-11-087-099-7033 Sequence 7033, Ap
994 26 55.3 523 11 US-11-087-099-847 Sequence 847, App
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ALIGNMENTS

RESULT 1
US-10-511-814-8
; Sequence 8, Application US/10511814
; Publication No. US2006008872A1
; GENERAL INFORMATION:
; APPLICANT: Meacbrook, Iii, Thomas F.
; TITLE OF INVENTION: E7 REGULATION OF P21 (CIP1) THROUGH AKT
; FILE REFERENCE: 21108.0016U2
; CURRENT APPLICATION NUMBER: US/10/511,814
; PRIOR FILING DATE: 2004-10-19
; PRIOR APPLICATION NUMBER: PCT/US03/12667
; PRIOR FILING DATE: 2003-04-21
; PRIOR APPLICATION NUMBER: 60/374,245
; NUMBER OF SEQ ID NOS: 21
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 8
; LENGTH: 98
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence:/Note =
; OTHER INFORMATION: Synthetic Construct
US-10-511-814-8

Query Match 100.0%; Score 47; DB 8; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.031;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 1 EIDGPAGQA 9
Db 37 EIDGPAGQA 45

RESULT 2
US-10-530-253-14
; Sequence 14, Application US/10530253

; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Casaretti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 14
; LENGTH: 98
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-10-530-253-14

Query Match 100.0%; Score 47; DB 9; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.031;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 1 EIDGPAGQA 9
Db 37 EIDGPAGQA 45

RESULT 3
US-11-179-478-4
; Sequence 4, Application US/11179478
; Publication No. US20050249745A1
; GENERAL INFORMATION:
; APPLICANT: BURGER, Alexander
; APPLICANT: HALLEK, Michael
; TITLE OF INVENTION: PAPILLOMA VIRUS CAPSOMERE VACCINE
; TITLE OF INVENTION: FORMULATIONS AND METHODS OF USE
; NUMBER OF SEQUENCES: 28
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: FOLEY & LARDNER
; STREET: 3000 K Street, N.W.
; CITY: Washington
; STATE: D.C.
; COUNTRY: U.S.A.
; ZIP: 20007-5109
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: IBM PC compatible
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/11/179,478
; FILING DATE: 13-JULY-2005
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/10/654,129
; FILING DATE: 04-Sep-2003
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Sandercock, Colin G.
; REGISTRATION NUMBER: 31,298
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202) 672-5300
; TELEFAX: (202) 672-5399
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 98 amino acids
; TYPE: amino acid
; TOPOLOGY: linear

MOLECULE TYPE: protein
US-11-179-478-4

Query Match 100.0%; Score 47; DB 11; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.031;
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Db 37 EIDGPAGQA 45

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US-10-530-253-1
; Sequence 1, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Cassecci, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
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US-10-530-253-1

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Best Local Similarity 100.0%; Pred. No. 0.08;
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Db 187 EIDGPAGQA 195

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; GENERAL INFORMATION:
; APPLICANT: Cassecci, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
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US-10-530-253-3

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Db 187 EIDGPAGQA 195

RESULT 6
US-10-530-253-5
; Sequence 5, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Cassecci, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
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; ORGANISM: Human papillomavirus type 16
US-10-530-253-5

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Db 187 EIDGPAGQA 195

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US-10-530-253-7
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; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Cassecci, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
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US-10-530-253-7

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Db 37 EIDGPAGQA 45

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RESULT 8
US-10-530-253-9
; Sequence 9, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Casasetti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
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US-10-530-253-9

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US-10-530-253-11
; Sequence 11, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Casasetti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
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US-10-530-253-11

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; Sequence 2, Application US/11192923A
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; Publication No. US20060018928A1
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; APPLICANT: PANG, XIAOMU
; TITLE OF INVENTION: VIRUS-LIKE PARTICLE CONTAINING A DENGUE VIRUS
; FILE REFERENCE: 116620-003
; CURRENT APPLICATION NUMBER: US/11/192,923A
; CURRENT FILING DATE: 2005-07-29
; PRIOR APPLICATION NUMBER: CN 03115272.4
; PRIOR FILING DATE: 2003-01-30
; PRIOR APPLICATION NUMBER: CN 03115273.2
; PRIOR FILING DATE: 2003-01-30
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; SEQ ID NO 2
; LENGTH: 256
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-11-192-923A-2

Query Match      100.0%; Score 47; DB 11; Length 256;
Best Local Similarity 100.0%; Pred. No. 0.083;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY      1 EIDGPAGQA 9
        |||||
Db      37 EIDGPAGQA 45

RESULT 11
US-10-511-814-11
; Sequence 11, Application US/10511814
; Publication No. US20060088472A1
; GENERAL INFORMATION:
; APPLICANT: McCance, Dennis
; APPLICANT: Westbrook, III, Thomas F.
; TITLE OF INVENTION: E7 REGULATION OF P21 (CIP1) THROUGH AKT
; FILE REFERENCE: 21108,0016U2
; CURRENT APPLICATION NUMBER: US/10/511,814
; CURRENT FILING DATE: 2004-10-19
; PRIOR APPLICATION NUMBER: PCT/US03/12667
; PRIOR FILING DATE: 2003-04-21
; PRIOR APPLICATION NUMBER: 60/374,245
; PRIOR FILING DATE: 2002-04-19
; NUMBER OF SEQ ID NOS: 21
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 11
; LENGTH: 98
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence./Note =
US-10-511-814-11

Query Match      97.9%; Score 46; DB 8; Length 98;
Best Local Similarity 88.9%; Pred. No. 0.048;
Matches 8; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

OY      1 EIDGPAGQA 9
        |||||
Db      37 EIDGPAGQA 45

RESULT 12
US-10-530-253-30
; Sequence 30, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Casasetti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
```

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; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; PRIOR FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 30
; LENGTH: 99
; TYPE: PRT
; ORGANISM: Human papillomavirus type 35
US-10-530-253-30

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Query Match      89.4%; Score 42; DB 9; Length 99;
Best Local Similarity 100.0%; Pred. No. 0.23;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Qy      2 IDGPAGQA 9
Db      39 IDGPAGQA 46

```

```

RESULT 13
US-10-530-253-28
; Sequence 28, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Cassetti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 28
; LENGTH: 98
; TYPE: PRT
; ORGANISM: Human papillomavirus type 31
US-10-530-253-28

```

```

Query Match      76.6%; Score 36; DB 9; Length 98;
Best Local Similarity 87.5%; Pred. No. 4.3;
Matches 7; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

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Qy      2 IDGPAGQA 9
Db      38 IDGPAGQA 45

```

```

RESULT 14
US-11-045-004-1121
; Sequence 1121, Application US/11045004
; Publication No. US20060078901A1
; GENERAL INFORMATION:
; APPLICANT: BUCHRISEB, CARMEN
; APPLICANT: FRANGEUL, LIONEL
; APPLICANT: COUVE, ELISABETH
; APPLICANT: RUSNIK, CHRISTOPHE
; APPLICANT: RUSNI, HAFIDA
; APPLICANT: DEHOIX, PIERRE
; APPLICANT: DUSSENET, OLIVIER
; APPLICANT: CHETOUANT, FARID
; APPLICANT: NEDJARI, HAFED

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; APPLICANT: GLASER, PHILIPPE
; APPLICANT: KUNST, FRANCK
; APPLICANT: COSSART, PASCALB
; APPLICANT: DANIELS, JUSTIN
; APPLICANT: GOEBEL, WERNER
; APPLICANT: KREFT, JURGEN
; APPLICANT: KUNN, MICHAEL
; APPLICANT: NG, EVA
; APPLICANT: VAQUEZ-BOLAND, ANTONIO
; APPLICANT: DOMINGUEZ-BERNAL, GUSTAVO
; APPLICANT: GARRIDO-GARCIA, PATRICIA
; APPLICANT: TIERREZ-MARTINEZ, ALBERTO
; APPLICANT: AMEND, ALEXANDRA
; APPLICANT: CHAKRABORTY, TRINAD
; APPLICANT: DOMANN, EUGEN
; APPLICANT: HAIN, THORSTEN
; APPLICANT: BERCHE, PATRICK
; APPLICANT: CHARBIT, ALAIN
; APPLICANT: DURANT, LIONEL
; APPLICANT: PEREZ-DIAZ, JOSE-CLAUDIO
; APPLICANT: BAQUERO, FERNANDO
; APPLICANT: GARCIA DEL PORTILLO, FRANCISCO
; APPLICANT: GOMEZ-LOPEZ, NURIA
; APPLICANT: MADUENIO, ENCARN
; APPLICANT: PABLOS, BETRIZ DE
; APPLICANT: WEHLAND, JURGEN
; APPLICANT: KARST, UWE
; APPLICANT: ENTIAN, KARL-DIETER
; APPLICANT: HAUF, JORG
; APPLICANT: ROSE, MATTHIAS
; APPLICANT: VOSS, HAMPT
; TITLE OF INVENTION: LISTERIA MONOCYTOGENES GENOME, POLYPEPTIDES AND USES
; FILE REFERENCE: 05394.0018-02
; CURRENT APPLICATION NUMBER: US/11/045,004
; CURRENT FILING DATE: 2005-01-28
; PRIOR APPLICATION NUMBER: 10/637,657
; PRIOR FILING DATE: 2003-08-11
; PRIOR APPLICATION NUMBER: 10/257,023
; PRIOR FILING DATE: 2002-10-08
; PRIOR APPLICATION NUMBER: PCT/FR01/01118
; PRIOR FILING DATE: 2001-04-11
; PRIOR APPLICATION NUMBER: FR 00/04,629
; PRIOR FILING DATE: 2000-04-11
; NUMBER OF SEQ ID NOS: 2854
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1121
; LENGTH: 347
; TYPE: PRT
; ORGANISM: Listeria monocytogenes
US-11-045-004-1121

```

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Query Match      74.5%; Score 35; DB 11; Length 347;
Best Local Similarity 75.0%; Pred. No. 25;
Matches 6; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

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Qy      1 EIDGPAGQ 8
Db      90 KIDGPAGK 97

```

```

RESULT 15
US-10-530-253-36
; Sequence 36, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Cassetti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04

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; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 36
; LENGTH: 98
; TYPE: PRT
; ORGANISM: Human papillomavirus type 58
; US-10-530-253-36

Query Match
Best Local Similarity 72.3%; Score 34; DB 9; Length 98;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Oy      2 IDGPAGQA 9
Db      39 LDGPDGQA 46

RESULT 16
; Sequence 727, Application US/11045004
; Publication No. US20060078901a1
; GENERAL INFORMATION:
; APPLICANT: BUCHRIESER, CARMEN
; APPLICANT: FRANGEUL, LIONEL
; APPLICANT: COUVE, ELISABETH
; APPLICANT: RUSNIOK, CHRISTOPHE
; APPLICANT: FSIHI, HAFIDA
; APPLICANT: DEHOUY, PIERRE
; APPLICANT: DUSURGET, OLIVIER
; APPLICANT: CHETOUANI, FARID
; APPLICANT: NEDJARI, HAFED
; APPLICANT: GLASER, PHILIPPE
; APPLICANT: KUNST, FRANCK
; APPLICANT: COSSART, PASCAL
; APPLICANT: DANIELS, JUSTIN
; APPLICANT: GOEBEL, WERNER
; APPLICANT: KREFT, JURGEN
; APPLICANT: KUHN, MICHAEL
; APPLICANT: NG, EVA
; APPLICANT: VAZQUEZ-BOLAND, ANTONIO
; APPLICANT: DOMINGUEZ-BERNAL, GUSTAVO
; APPLICANT: GARRIDO-GARCIA, PATRICIA
; APPLICANT: TIERREZ-MARTINEZ, ALBERTO
; APPLICANT: AMEND, ALEXANDRA
; APPLICANT: CHAKRABORTY, TRINAD
; APPLICANT: DOMANN, EUGEN
; APPLICANT: HAIN, THORSTEN
; APPLICANT: BERGHE, PATRICK
; APPLICANT: CHARBIT, ALAIN
; APPLICANT: DURANT, LIONEL
; APPLICANT: PEREZ-DIAZ, JOSE-CLAUDIO
; APPLICANT: BAQUERO, FERNANDO
; APPLICANT: GARCIA DEL PORTILLO, FRANCISCO
; APPLICANT: MADUENIO, ENCARNIA
; APPLICANT: MADUENIO, ENCARNIA
; APPLICANT: PABLOS, BETRIZ DE
; APPLICANT: WEHLAND, JURGEN
; APPLICANT: KARST, UWE
; APPLICANT: ENTIAN, KARL-DIETER
; APPLICANT: HAUF, JORG
; APPLICANT: ROSE, MATTHIAS
; APPLICANT: VOSS, HAMOT
; TITLE OF INVENTION: LISTERIA MONOCYTOGENES GENOME, POLYPEPTIDES AND USES
; FILE REFERENCE: 05394, 0018-02
; CURRENT APPLICATION NUMBER: US/11/045,004
; PRIOR FILING DATE: 2005-01-28
; PRIOR APPLICATION NUMBER: 10/637,657
; PRIOR FILING DATE: 2003-08-11
; PRIOR APPLICATION NUMBER: 10/257,023
```

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; PRIOR FILING DATE: 2002-10-08
; PRIOR APPLICATION NUMBER: PCT/FR01/01118
; PRIOR FILING DATE: 2001-04-11
; PRIOR APPLICATION NUMBER: FR 00/04,629
; PRIOR FILING DATE: 2000-04-11
; NUMBER OF SEQ ID NOS: 2854
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 727
; LENGTH: 419
; TYPE: PRT
; ORGANISM: Listeria monocytogenes
; US-11-045-004-727

Query Match
Best Local Similarity 72.3%; Score 34; DB 11; Length 419;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Oy      2 IDGPAGQA 9
Db      83 LDGPAGTA 90

RESULT 17
; Sequence 7547, Application us/11079463
; Publication No. US20060073161a1
; GENERAL INFORMATION:
; APPLICANT: Gary L. Breton
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO BACTERIOIDES FRAC
; FILE REFERENCE: PATH00-03DIV2
; CURRENT APPLICATION NUMBER: US/11/079,463
; PRIOR FILING DATE: 2005-03-14
; PRIOR APPLICATION NUMBER: US 60/128,705
; PRIOR FILING DATE: 1999-04-09
; PRIOR APPLICATION NUMBER: US 09/540,209
; PRIOR FILING DATE: 2000-04-04
; NUMBER OF SEQ ID NOS: 10444
; SEQ ID NO 7547
; LENGTH: 426
; TYPE: PRT
; ORGANISM: B.fragilis
; US-11-079-463-7547

Query Match
Best Local Similarity 72.3%; Score 34; DB 11; Length 426;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy      3 DGPAGQ 8
Db      85 DGPAGQ 90

RESULT 18
; Sequence 3, Application US/10512376
; Publication No. US20060014219a1
; GENERAL INFORMATION:
; APPLICANT: Chen et al.
; TITLE OF INVENTION: Method for Measuring Ion Channel
; NUMBER OF SEQUENCES: 8
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: FMC Corporation
; STREET: 1735 Market Street
; CITY: Philadelphia
; STATE: PA
; COUNTRY: USA
; ZIP: 19103
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
```


SOFTWARE: FastSeq for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/512,376
FILING DATE: 25-Oct-2004
CLASSIFICATION: To Be Assigned
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 60/377,089
FILING DATE: May 1, 2002
ATTORNEY/AGENT INFORMATION:
NAME: Terence J. Bogie
REGISTRATION NUMBER: 44,544
REFERENCE/DOCKET NUMBER: FMC0004-100 (60272-USA)
TELECOMMUNICATION INFORMATION:
TELEPHONE: 609-951-3518
TELEFAX: 215-299-6984
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 467 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
US-10-512-376-3
SEQUENCE DESCRIPTION: SEQ ID NO: 3:
Query Match 72.3%; Score 34; DB 9; Length 467;
Best Local Similarity 66.7%; Pred. No. 54;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;
QY 1 BIDPAGQA 9
DB 333 QIDGPQSA 341
RESULT 19
US-10-512-376-2
Sequence 2, Application US/10512376
Publication No. US20060014219A1
GENERAL INFORMATION:
APPLICANT: Chen et al.
TITLE OF INVENTION: Method for Measuring Ion Channel
NUMBER OF SEQUENCES: 8
CORRESPONDENCE ADDRESS:
ADDRESSEE: FMC Corporation
STREET: 1735 Market Street
CITY: Philadelphia
STATE: PA
COUNTRY: USA
ZIP: 19103
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
OPERATING SYSTEM: IBM Compatible
SOFTWARE: FastSeq for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/512,376
FILING DATE: 25-Oct-2004
CLASSIFICATION: To Be Assigned
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 60/377,089
FILING DATE: May 1, 2002
ATTORNEY/AGENT INFORMATION:
NAME: Terence J. Bogie
REGISTRATION NUMBER: 44,544
REFERENCE/DOCKET NUMBER: FMC0004-100 (60272-USA)
TELECOMMUNICATION INFORMATION:
TELEPHONE: 609-951-3518
TELEFAX: 215-299-6984
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 496 amino acids
TYPE: amino acid
STRANDEDNESS: single

TOPOLOGY: linear
MOLECULE TYPE: protein
FRAGMENT TYPE: Internal
SEQUENCE DESCRIPTION: SEQ ID NO: 2:
US-10-512-376-2
Query Match 72.3%; Score 34; DB 9; Length 496;
Best Local Similarity 66.7%; Pred. No. 57;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;
QY 1 BIDPAGQA 9
DB 362 QIDGPQSA 370
RESULT 20
US-11-188-298-10688
Sequence 10688, Application US/11188298
Publication No. US20060075522A1
GENERAL INFORMATION:
APPLICANT: Abad, Mark S. et al.
TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
FILE REFERENCE: 38-21(53452)B
CURRENT APPLICATION NUMBER: US/11/188,298
CURRENT FILING DATE: 2005-07-22
PRIOR APPLICATION NUMBER: 60/592,978
PRIOR FILING DATE: 2004-07-31
NUMBER OF SEQ ID NOS: 22569
SEQ ID NO 10688
LENGTH: 1211
TYPE: PRT
ORGANISM: ASPERGILLUS NIDULANS FGSC M4
US-11-188-298-10688
Query Match 72.3%; Score 34; DB 11; Length 1211;
Best Local Similarity 55.6%; Pred. No. 1,4e+02;
Matches 5; Conservative 3; Mismatches 1; Indels 0; Gaps 0;
QY 1 BIDPAGQA 9
DB 20 QIDGPQADS 28
RESULT 21
US-10-821-234-1045
Sequence 1045, Application US/10821234
Publication No. US20050255114A1
GENERAL INFORMATION:
APPLICANT: Labat, Ivan
APPLICANT: Stache-Crain, Birgit
APPLICANT: Andarmani, Susan
APPLICANT: Tang, Y. Tom
TITLE OF INVENTION: Methods for Diagnosis and Treatment of Preeclampsia
FILE REFERENCE: 821A
CURRENT APPLICATION NUMBER: US/10/821,234
CURRENT FILING DATE: 2004-04-07
PRIOR APPLICATION NUMBER: US 60/462,047
PRIOR FILING DATE: 2003-04-07
NUMBER OF SEQ ID NOS: 1704
SOFTWARE: pt_seq_genes Version 1.0
SEQ ID NO 1045
LENGTH: 1400
TYPE: PRT
ORGANISM: Homo sapiens
US-10-821-234-1045
Query Match 72.3%; Score 34; DB 9; Length 1400;
Best Local Similarity 85.7%; Pred. No. 1.7e+02;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 2 IDGPAGQ 8
DB 183 IDGPQ 189

```
RESULT 22
US-11-096-568A-21069
; Sequence 21069, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
; APPLICANT: Alexandrov, Nikolai et al.
; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
; FILE REFERENCE: 2750-1592PUS2
; CURRENT APPLICATION NUMBER: US/11/096,568A
; CURRENT FILING DATE: 2005-04-01
; NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 21069
; LENGTH: 208
; TYPE: PRT
; ORGANISM: Zea mays subsp. mays
; FEATURE:
; NAME/KEY: misc.feature
; LOCATION: (1)..(208)
; OTHER INFORMATION: Ceres Seq. ID no. 12400843
US-11-096-568A-21069

Query Match          70.2%; Score 33; DB 11; Length 208;
Best Local Similarity 75.0%; Pred. No. 36;
Matches 6; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2 IDGPAGQA 9
Db 152 IDGPAGQA 159

RESULT 23
US-11-096-568A-21068
; Sequence 21068, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
; APPLICANT: Alexandrov, Nikolai et al.
; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
; FILE REFERENCE: 2750-1592PUS2
; CURRENT APPLICATION NUMBER: US/11/096,568A
; CURRENT FILING DATE: 2005-04-01
; NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 21068
; LENGTH: 210
; TYPE: PRT
; ORGANISM: Zea mays subsp. mays
; FEATURE:
; NAME/KEY: misc.feature
; LOCATION: (1)..(210)
; OTHER INFORMATION: Ceres Seq. ID no. 12400842
US-11-096-568A-21068

Query Match          70.2%; Score 33; DB 11; Length 210;
Best Local Similarity 75.0%; Pred. No. 37;
Matches 6; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2 IDGPAGQA 9
Db 154 IDGPAGQA 161

RESULT 24
US-11-098-686-11155
; Sequence 11155, Application US/11098686
; Publication No. US20060024696A1
; GENERAL INFORMATION:
; APPLICANT: Kapur, Vivek and Gebhart, Connie J.
; TITLE OF INVENTION: NUCLEIC ACID AND POLYPEPTIDE SEQUENCES
; TITLE OF INVENTION: FROM LAWSONIA INTRACELLULARIS AND METHODS OF USING
; FILE REFERENCE: 09531-128001
```

```
;; CURRENT APPLICATION NUMBER: US/11/098,686
;; CURRENT FILING DATE: 2005-04-04
;; PRIOR APPLICATION NUMBER: PCT/US03/31318
;; PRIOR FILING DATE: 2003-10-01
;; PRIOR APPLICATION NUMBER: US 60/416,395
;; PRIOR FILING DATE: 2002-10-04
;; NUMBER OF SEQ ID NOS: 11433
;; SOFTWARE: PasteSeq for Windows Version 4.0
;; SEQ ID NO 11155
;; LENGTH: 225
;; TYPE: PRT
;; ORGANISM: Lawsonia intracellularis
US-11-098-686-11155

Query Match          70.2%; Score 33; DB 11; Length 225;
Best Local Similarity 100.0%; Pred. No. 40;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 IDGPAG 7
Db 9 IDGPAG 14

RESULT 25
US-11-045-004-1619
; Sequence 1619, Application US/11045004
; Publication No. US20060078901A1
; GENERAL INFORMATION:
; APPLICANT: BUCHRIESEN, CARMEN
; APPLICANT: FRANGEUL, LIONEL
; APPLICANT: COUVE, ELISABETH
; APPLICANT: RUSNIOK, CHRISTOPHE
; APPLICANT: ESTHI, HAFIDA
; APPLICANT: DEHOUX, PIERRE
; APPLICANT: DUSSENET, OLIVIER
; APPLICANT: CHETOUANI, FARID
; APPLICANT: NEDJARI, HAFED
; APPLICANT: GLASER, PHILIPPE
; APPLICANT: KUNST, FRANCK
; APPLICANT: COSSART, PASCAL
; APPLICANT: DANIELS, JUSTIN
; APPLICANT: GOEBEL, WERNER
; APPLICANT: KREFT, JURGEN
; APPLICANT: KUHN, MICHAEL
; APPLICANT: NG, EVA
; APPLICANT: VAZQUEZ-BOLAND, ANTONIO
; APPLICANT: DOMINGUEZ-BERNAL, GUSTAVO
; APPLICANT: GARRIDO-GARCIA, PATRICIA
; APPLICANT: TIERREZ-MARTINEZ, ALBERTO
; APPLICANT: AMEND, ALEXANDRA
; APPLICANT: CHAKRABORTY, TRINAD
; APPLICANT: DOMANN, EUGEN
; APPLICANT: HAIN, THORSTEN
; APPLICANT: BERCHE, PATRICK
; APPLICANT: CHARBIT, ALAIN
; APPLICANT: DURANT, LIONEL
; APPLICANT: PEREZ-DIAZ, JOSE-CLAUDIO
; APPLICANT: BAQUERO, FERNANDO
; APPLICANT: GARCIA DEL PORTILLO, FRANCISCO
; APPLICANT: GOMEZ-LOPEZ, NURIA
; APPLICANT: MADUENIO, ENCARNIA
; APPLICANT: PABLOS, BETRIZ DE
; APPLICANT: WEHLAND, JURGEN
; APPLICANT: KARST, UWE
; APPLICANT: ENTIAN, KARL-DIETER
; APPLICANT: HAUF, JORG
; APPLICANT: ROSE, MATTHIAS
; APPLICANT: VOSS, HAMUT
; TITLE OF INVENTION: LISTERIA MONOCYTOGENES GENOME, POLYPEPTIDES AND USES
; FILE REFERENCE: 05394.0018-02
; CURRENT APPLICATION NUMBER: US/11/045,004
; CURRENT FILING DATE: 2005-01-28
; PRIOR APPLICATION NUMBER: 10/637,657
```

```
; PRIOR FILING DATE: 2003-08-11
; PRIOR APPLICATION NUMBER: 10/257,023
; PRIOR FILING DATE: 2002-10-08
; PRIOR APPLICATION NUMBER: PCT/FR01/01118
; PRIOR FILING DATE: 2001-04-11
; PRIOR APPLICATION NUMBER: FR 00/04,629
; PRIOR FILING DATE: 2000-04-11
; NUMBER OF SEQ ID NOS: 2854
; SOFTWARE: Patentin version 3.3
; SEQ ID NO: 1619
; LENGTH: 272
; TYPE: PRT
; ORGANISM: Listeria monocytogenes
; US-11-045-004-1619
```

```
Query Match          70.2%; Score 33; DB 11; Length 272;
Best Local Similarity 75.0%; Pred. No. 48;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
```

```
QY      2 IDGPAGQA 9
      |||||
Db      257 IDAPAGQS 264
```

```
RESULT 26
US-11-096-568A-21067
; Sequence 21067, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
; APPLICANT: Alexandrov, Nikolai et al.
; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
; FILE REFERENCE: 2750-1592PUS2
; CURRENT FILING DATE: 2005-04-01
; CURRENT APPLICATION NUMBER: US/11/096,568A
; NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO: 21067
; LENGTH: 284
; TYPE: PRT
; ORGANISM: Zea mays subsp. mays
; FEATURE:
; NAME/KEY: misc. feature
; LOCATION: (1)..(284)
; OTHER INFORMATION: Ceres Seq. ID no. 12400841
; US-11-096-568A-21067
```

```
Query Match          70.2%; Score 33; DB 11; Length 284;
Best Local Similarity 75.0%; Pred. No. 50;
Matches 6; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
```

```
QY      2 IDGPAGQA 9
      |||||
Db      228 IDGPTGDA 235
```

```
RESULT 27
US-10-821-234-1240
; Sequence 1240, Application US/10821234
; Publication No. US20050255114A1
; GENERAL INFORMATION:
; APPLICANT: Labat, Ivan
; APPLICANT: Stache-Crain, Birgit
; APPLICANT: Andarmant, Susan
; APPLICANT: Tang, Y. Tom
; TITLE OF INVENTION: Methods for diagnosis and treatment of Preeclampsia
; FILE REFERENCE: 821A
; CURRENT APPLICATION NUMBER: US/10/821,234
; CURRENT FILING DATE: 2004-04-07
; PRIOR APPLICATION NUMBER: US 60/462,047
; PRIOR FILING DATE: 2003-04-07
; NUMBER OF SEQ ID NOS: 1704
; SOFTWARE: pc_seq_genes version 1.0
; SEQ ID NO: 1240
```

```
; LENGTH: 298
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-10-821-234-1240
```

```
Query Match          70.2%; Score 33; DB 9; Length 298;
Best Local Similarity 75.0%; Pred. No. 53;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
```

```
QY      2 IDGPAGQA 9
      |||||
Db      37 IDGPAGQA 44
```

```
RESULT 28
US-11-055-822-290
; Sequence 290, Application US/11055822
; Publication No. US20050260707A1
; GENERAL INFORMATION:
; APPLICANT: Pompeius, Markus
; APPLICANT: Kroger, Burkhard
; APPLICANT: Schroder, Hartwig
; APPLICANT: Zelder, Oskar
; APPLICANT: Haberland, Gregor
; TITLE OF INVENTION: CORYNEBACTERIUM GLUTAMICUM GENES ENCODING
; FILE REFERENCE: BGI-121CPN
; CURRENT APPLICATION NUMBER: US/11/055,822
; CURRENT FILING DATE: 2005-02-11
; PRIOR APPLICATION NUMBER: 09/606,740
; PRIOR FILING DATE: 2000-06-23
; PRIOR APPLICATION NUMBER: 60/141,031
; PRIOR FILING DATE: 1999-06-25
; PRIOR APPLICATION NUMBER: 60/142,101
; PRIOR FILING DATE: 1999-07-02
; PRIOR APPLICATION NUMBER: 60/148,613
; PRIOR FILING DATE: 1999-08-12
; PRIOR APPLICATION NUMBER: 60/187,970
; PRIOR FILING DATE: 2000-03-09
; PRIOR APPLICATION NUMBER: DE 19930476.9
; PRIOR FILING DATE: 1999-07-01
; PRIOR APPLICATION NUMBER: DE 19931415.2
; PRIOR FILING DATE: 1999-07-08
; PRIOR APPLICATION NUMBER: DE 19931418.7
; PRIOR FILING DATE: 1999-07-08
; PRIOR APPLICATION NUMBER: DE 19931419.5
; PRIOR FILING DATE: 1999-07-08
; PRIOR APPLICATION NUMBER: DE 19931420.9
; PRIOR FILING DATE: 1999-07-08
; Remaining Prior Application data removed - See file wrapper or PALM.
; NUMBER OF SEQ ID NOS: 1158
; SEQ ID NO: 290
; LENGTH: 409
; TYPE: PRT
; ORGANISM: Corynebacterium glutamicum
; US-11-055-822-290
```

```
Query Match          70.2%; Score 33; DB 11; Length 409;
Best Local Similarity 87.5%; Pred. No. 74;
Matches 7; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
QY      1 EIDGPAGQ 8
      |||||
Db      356 EIDGPAGQ 363
```

```
RESULT 29
US-11-231-599-10
; Sequence 10, Application US/11231599
; Publication No. US20060035379A1
; GENERAL INFORMATION:
; APPLICANT: Morrell, Matthew
; APPLICANT: Li, Zhongyi
```

```

; APPLICANT: Rahman, Sadequr
; TITLE OF INVENTION: GENES ENCODING WHEAT STARCH SYNTHASES AND USES
; FILE REFERENCE: 72715Supplemental
; CURRENT APPLICATION NUMBER: US/11/231,599
; CURRENT FILING DATE: 2005-09-21
; PRIOR APPLICATION NUMBER: US/10/018,418
; PRIOR FILING DATE: 2002-05-09
; NUMBER OF SEQ ID NOS: 59
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 10
; LENGTH: 1059
; TYPE: PRT
; ORGANISM: Triticum aestivum
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (507)..(507)
; OTHER INFORMATION: The 'Xaa' at location 507 stands for Asp, Gly, Ala, or
; OTHER INFORMATION: Val.
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1520)..(1520)
; OTHER INFORMATION: n can be a or g or c or t, and the encoded amino acid
; OTHER INFORMATION: cannot be a
; OTHER INFORMATION: assigned with certainty.
US-11-231-599-10

```

```

Query Match          70.2%; Score 33; DB 11; Length 1059;
Best Local Similarity 85.7%; Pred. No. 2e+02;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

```

```
QY      3 DGPAGQA 9
      |||||
Db      418 DGPAGNA 424

```

```

RESULT 30
US-11-231-599-8
; Sequence 8, Application US/11231599
; Publication No. US2006003579A1
; GENERAL INFORMATION:
; APPLICANT: Morrell, Matthew
; APPLICANT: Li, Zhongyi
; APPLICANT: Rahman, Sadequr
; APPLICANT: Appels, Rudolph
; TITLE OF INVENTION: GENES ENCODING WHEAT STARCH SYNTHASES AND USES
; FILE REFERENCE: 72715Supplemental
; CURRENT APPLICATION NUMBER: US/11/231,599
; CURRENT FILING DATE: 2005-09-21
; PRIOR APPLICATION NUMBER: US/10/018,418
; PRIOR FILING DATE: 2002-05-09
; NUMBER OF SEQ ID NOS: 59
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 8
; LENGTH: 1628
; TYPE: PRT
; ORGANISM: Triticum aestivum
US-11-231-599-8

```

```

Query Match          70.2%; Score 33; DB 11; Length 1628;
Best Local Similarity 85.7%; Pred. No. 3.1e+02;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

```

```
QY      3 DGPAGQA 9
      |||||
Db      988 DGPAGNA 994

```

```

RESULT 31
US-11-264-096-585
; Sequence 585, Application US/11264096

```

```

; Publication No. US20060084794A1
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: Albumin Fusion Proteins
; FILE REFERENCE: PFS46D1
; CURRENT APPLICATION NUMBER: US/11/264,096
; CURRENT FILING DATE: 2005-11-02
; PRIOR APPLICATION NUMBER: 09/833,245
; PRIOR FILING DATE: 2001-04-12
; PRIOR APPLICATION NUMBER: 60/229,358
; PRIOR FILING DATE: 2000-04-12
; PRIOR APPLICATION NUMBER: 60/256,931
; PRIOR FILING DATE: 2000-12-21
; PRIOR APPLICATION NUMBER: 60/199,384
; PRIOR FILING DATE: 2000-04-25
; NUMBER OF SEQ ID NOS: 2267
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 585
; LENGTH: 241
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: SITE
; LOCATION: (58)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
US-11-264-096-585

```

```

Query Match          68.1%; Score 32; DB 11; Length 241;
Best Local Similarity 100.0%; Pred. No. 67;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```
QY      4 GPAGQA 9
      |||||
Db      88 GPAGQA 93

```

```

RESULT 32
US-11-264-096-586
; Sequence 586, Application US/11264096
; Publication No. US20060084794A1
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: Albumin Fusion Proteins
; FILE REFERENCE: PFS46D1
; CURRENT APPLICATION NUMBER: US/11/264,096
; CURRENT FILING DATE: 2005-11-02
; PRIOR APPLICATION NUMBER: 09/833,245
; PRIOR FILING DATE: 2001-04-12
; PRIOR APPLICATION NUMBER: 60/229,358
; PRIOR FILING DATE: 2000-04-12
; PRIOR APPLICATION NUMBER: 60/256,931
; PRIOR FILING DATE: 2000-12-21
; PRIOR APPLICATION NUMBER: 60/199,384
; PRIOR FILING DATE: 2000-04-25
; NUMBER OF SEQ ID NOS: 2267
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 586
; LENGTH: 241
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-264-096-586

```

```

Query Match          68.1%; Score 32; DB 11; Length 241;
Best Local Similarity 100.0%; Pred. No. 67;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```
QY      4 GPAGQA 9
      |||||
Db      88 GPAGQA 93

```

```

RESULT 33
US-11-229-769-322

```

```
; Sequence 322, Application US/11229769
; Publication No. US20060079670A1
; GENERAL INFORMATION:
; APPLICANT: Komatsoulis et al
; TITLE OF INVENTION: 98 Human Secreted Proteins
; FILE REFERENCE: P2031PDICT1
; CURRENT APPLICATION NUMBER: US/11/229,769
; CURRENT FILING DATE: 2005-09-20
; PRIOR APPLICATION NUMBER: 10/233,453
; PRIOR FILING DATE: 2002-09-04
; PRIOR APPLICATION NUMBER: 09/489,847
; PRIOR FILING DATE: 2000-01-24
; PRIOR APPLICATION NUMBER: PCT/US99/17130
; PRIOR FILING DATE: 1999-07-29
; PRIOR APPLICATION NUMBER: 60/094,657
; PRIOR FILING DATE: 1998-07-30
; PRIOR APPLICATION NUMBER: 60/095,486
; PRIOR FILING DATE: 1998-08-05
; PRIOR APPLICATION NUMBER: 60/096,319
; PRIOR FILING DATE: 1998-08-12
; PRIOR APPLICATION NUMBER: 60/095,454
; PRIOR FILING DATE: 1998-08-06
; PRIOR APPLICATION NUMBER: 60/095,455
; PRIOR FILING DATE: 1998-08-06
; NUMBER OF SEQ ID NOS: 376
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 322
; LENGTH: 365
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-229-769-322
```

```
Query Match      68.1%; Score 32; DB 11; Length 365;
Best Local Similarity 55.6%; Pred. No. 1e+02;
Matches 5; Conservative 3; Mismatches 1; Indels 0; Gaps 0;
```

```
QY      1 EIDPAGCA 9
      ::|||::|
Db      233 DLTGPAGCA 241
```

```
RESULT 34
US-10-877-346-48
```

```
; Sequence 48, Application US/10877346
; Publication No. US20060014153A1
; GENERAL INFORMATION:
```

```
; APPLICANT: Gerlach, Valerie L
; APPLICANT: MacDougall, John R
; APPLICANT: Smithson, Glenda
; APPLICANT: Millet, Isabelle
; APPLICANT: Stone, David
; APPLICANT: Gunther, Erik
; APPLICANT: Ellerman, Karen
; APPLICANT: Grosse, William M
; APPLICANT: Alsobrook II, John P
; APPLICANT: Lepley, Denise M
; APPLICANT: Burgess, Catherine B
; APPLICANT: Padigaru, Muralidhara
; APPLICANT: Kekuda, Ramesh
; APPLICANT: Spytek, Kimberly A
; APPLICANT: Leach, Martin D
; APPLICANT: Shimkets, Richard A
; TITLE OF INVENTION: Novel Proteins and Nucleic Acids Encoding Same
; FILE REFERENCE: 21402-124
; CURRENT APPLICATION NUMBER: US/10/877,346
; CURRENT FILING DATE: 2004-06-25
; PRIOR APPLICATION NUMBER: US/09/964,956
; PRIOR FILING DATE: 2001-09-26
; PRIOR APPLICATION NUMBER: 60/235,631
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: 60/235,633
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: 60/235,808
```

```
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: 60/236,064
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: 60/236,065
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: 60/236,066
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: 60/236,135
; PRIOR FILING DATE: 2000-09-28
; PRIOR APPLICATION NUMBER: 60/237,434
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/238,321
; PRIOR FILING DATE: 2000-10-05
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 127
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 48
; LENGTH: 475
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-877-346-48
```

```
Query Match      68.1%; Score 32; DB 9; Length 475;
Best Local Similarity 55.6%; Pred. No. 1.3e+02;
Matches 5; Conservative 2; Mismatches 2; Indels 0; Gaps 0;
```

```
QY      1 EIDPAGCA 9
      ::|||::|
Db      23 QVDPAGCA 31
```

```
RESULT 35
US-11-229-769-323
```

```
; Sequence 323, Application US/11229769
; Publication No. US20060079670A1
; GENERAL INFORMATION:
```

```
; APPLICANT: Komatsoulis et al
; TITLE OF INVENTION: 98 Human Secreted Proteins
; FILE REFERENCE: P2031PDICT1
; CURRENT APPLICATION NUMBER: US/11/229,769
; CURRENT FILING DATE: 2005-09-20
; PRIOR APPLICATION NUMBER: 10/233,453
; PRIOR FILING DATE: 2002-09-04
; PRIOR APPLICATION NUMBER: 09/489,847
; PRIOR FILING DATE: 2000-01-24
; PRIOR APPLICATION NUMBER: PCT/US99/17130
; PRIOR FILING DATE: 1999-07-29
; PRIOR APPLICATION NUMBER: 60/094,657
; PRIOR FILING DATE: 1998-07-30
; PRIOR APPLICATION NUMBER: 60/095,486
; PRIOR FILING DATE: 1998-08-05
; PRIOR APPLICATION NUMBER: 60/096,319
; PRIOR FILING DATE: 1998-08-12
; PRIOR APPLICATION NUMBER: 60/095,454
; PRIOR FILING DATE: 1998-08-06
; PRIOR APPLICATION NUMBER: 60/095,455
; PRIOR FILING DATE: 1998-08-06
; NUMBER OF SEQ ID NOS: 376
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 323
; LENGTH: 542
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-229-769-323
```

```
Query Match      68.1%; Score 32; DB 11; Length 542;
Best Local Similarity 55.6%; Pred. No. 1.5e+02;
Matches 5; Conservative 3; Mismatches 1; Indels 0; Gaps 0;
```

```
QY      1 EIDPAGCA 9
      ::|||::|
Db      337 DLTGPAGCA 345
```

```
RESULT 36
US-10-453-372-48
; Sequence 48, Application US/10453372
; Publication No. US2006000323A1
; GENERAL INFORMATION:
; APPLICANT: Alsebrook, et al.
; TITLE OF INVENTION: THERAPEUTIC POLYPEPTIDES, NUCLEIC ACIDS ENCODING SAME, AND METHOD
; FILE REFERENCE: 21402-589 A
; CURRENT FILING DATE: 2003-06-03
; PRIOR APPLICATION NUMBER: 09/789390
; PRIOR FILING DATE: 2001-02-23
; PRIOR APPLICATION NUMBER: 60/185967
; PRIOR FILING DATE: 2000-03-01
; PRIOR APPLICATION NUMBER: 09/823187
; PRIOR FILING DATE: 2001-03-29
; PRIOR APPLICATION NUMBER: 60/195792
; PRIOR FILING DATE: 2000-03-10
; PRIOR APPLICATION NUMBER: 09/839446
; PRIOR FILING DATE: 2001-03-19
; PRIOR APPLICATION NUMBER: 60/199476
; PRIOR FILING DATE: 2000-03-25
; PRIOR APPLICATION NUMBER: 09/863776
; PRIOR FILING DATE: 2001-05-23
; PRIOR APPLICATION NUMBER: 60/208263
; PRIOR FILING DATE: 2000-05-31
; PRIOR APPLICATION NUMBER: 09/93398
; PRIOR FILING DATE: 2001-08-24
; PRIOR APPLICATION NUMBER: 60/227800
; PRIOR FILING DATE: 2000-08-25
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 1609
; SOFTWARE: Curoseqdist version 0.1
; SEQ ID NO 48
; LENGTH: 713
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-453-372-48

Query Match      68.1% Score 32; DB 9; Length 713;
Best Local Similarity 71.4%; Pred. No. 2.1e+02;
Matches 5; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY      3 DGPAGQA 9
Db      296 DGPAGQS 302

RESULT 37
US-10-453-372-44
; Sequence 44, Application US/10453372
; Publication No. US2006000323A1
; GENERAL INFORMATION:
; APPLICANT: Alsebrook, et al.
; TITLE OF INVENTION: THERAPEUTIC POLYPEPTIDES, NUCLEIC ACIDS ENCODING SAME, AND METHOD
; FILE REFERENCE: 21402-589 A
; CURRENT FILING DATE: 2003-06-03
; PRIOR APPLICATION NUMBER: 09/789390
; PRIOR FILING DATE: 2001-02-23
; PRIOR APPLICATION NUMBER: 60/185967
; PRIOR FILING DATE: 2000-03-01
; PRIOR APPLICATION NUMBER: 09/823187
; PRIOR FILING DATE: 2001-03-29
; PRIOR APPLICATION NUMBER: 60/195792
; PRIOR FILING DATE: 2000-03-10
; PRIOR APPLICATION NUMBER: 09/839446
; PRIOR FILING DATE: 2001-03-19
; PRIOR APPLICATION NUMBER: 60/199476
; PRIOR FILING DATE: 2000-03-25
; PRIOR APPLICATION NUMBER: 09/863776
; PRIOR FILING DATE: 2001-05-23
```

```
; PRIOR APPLICATION NUMBER: 60/208263
; PRIOR FILING DATE: 2000-05-31
; PRIOR APPLICATION NUMBER: 09/93398
; PRIOR FILING DATE: 2001-08-24
; PRIOR APPLICATION NUMBER: 60/227800
; PRIOR FILING DATE: 2000-08-25
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 1609
; SOFTWARE: Curoseqdist version 0.1
; SEQ ID NO 44
; LENGTH: 776
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-453-372-44

Query Match      68.1% Score 32; DB 9; Length 776;
Best Local Similarity 71.4%; Pred. No. 2.2e+02;
Matches 5; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY      3 DGPAGQA 9
Db      296 DGPAGQS 302

RESULT 38
US-10-453-372-46
; Sequence 46, Application US/10453372
; Publication No. US2006000323A1
; GENERAL INFORMATION:
; APPLICANT: Alsebrook, et al.
; TITLE OF INVENTION: THERAPEUTIC POLYPEPTIDES, NUCLEIC ACIDS ENCODING SAME, AND METHOD
; FILE REFERENCE: 21402-589 A
; CURRENT FILING DATE: 2003-06-03
; PRIOR APPLICATION NUMBER: 09/789390
; PRIOR FILING DATE: 2001-02-23
; PRIOR APPLICATION NUMBER: 60/185967
; PRIOR FILING DATE: 2000-03-01
; PRIOR APPLICATION NUMBER: 09/823187
; PRIOR FILING DATE: 2001-03-29
; PRIOR APPLICATION NUMBER: 60/195792
; PRIOR FILING DATE: 2000-03-10
; PRIOR APPLICATION NUMBER: 09/839446
; PRIOR FILING DATE: 2001-03-19
; PRIOR APPLICATION NUMBER: 60/199476
; PRIOR FILING DATE: 2000-03-25
; PRIOR APPLICATION NUMBER: 09/863776
; PRIOR FILING DATE: 2001-05-23
; PRIOR APPLICATION NUMBER: 60/208263
; PRIOR FILING DATE: 2000-05-31
; PRIOR APPLICATION NUMBER: 09/93398
; PRIOR FILING DATE: 2001-08-24
; PRIOR APPLICATION NUMBER: 60/227800
; PRIOR FILING DATE: 2000-08-25
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 1609
; SOFTWARE: Curoseqdist version 0.1
; SEQ ID NO 46
; LENGTH: 776
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-453-372-46

Query Match      68.1% Score 32; DB 9; Length 776;
Best Local Similarity 71.4%; Pred. No. 2.2e+02;
Matches 5; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY      3 DGPAGQA 9
Db      296 DGPAGQS 302

RESULT 39
```

```
US-11-072-512-2654
; Sequence 2654, Application US/11072512
; Publication No. US20060029945A1
GENERAL INFORMATION:
; APPLICANT: ISOGAI, TAKAO
; APPLICANT: SUGIYAMA, TOMOYASU
; APPLICANT: OTSUKI, TETSUJI
; APPLICANT: WAKAMATSU, AI
; APPLICANT: SATO, HIROYUKI
; APPLICANT: ISHII, SHIZUKO
; APPLICANT: YAMAMOTO, JUN-ICHI
; APPLICANT: ISONO, YUKIO
; APPLICANT: HIO, YURI
; APPLICANT: OTSUKA, KAOBU
; APPLICANT: NAGAI, KEIICHI
; APPLICANT: IRIE, RYOTARO
; APPLICANT: TAMECHIKA, ICHIRO
; APPLICANT: SEKI, NAOHICO
; APPLICANT: YOSHIKAWA, TSUTOMU
; APPLICANT: OTSUKA, MOTYUKI
; APPLICANT: NAGAHARI, KENJI
; APPLICANT: MASUHO, YASUHIKO
TITLE OF INVENTION: Novel full length cDNA
FILE REFERENCE: 084335-0191
CURRENT APPLICATION NUMBER: US/11/072,512
PRIOR FILING DATE: 2005-03-07
PRIOR APPLICATION NUMBER: US 60/350,978
PRIOR FILING DATE: 2002-01-25
PRIOR APPLICATION NUMBER: JP 2001-379298
PRIOR FILING DATE: 2001-11-05
NUMBER OF SEQ ID NOS: 4096
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 2654
LENGTH: 808
TYPE: PRT
ORGANISM: Homo sapiens
US-11-072-512-2654

Query Match
Best Local Similarity 68.1%; Score 32; DB 11; Length 808;
Pred. No. 2.3e+02;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 EIDGAGQA 9
Db 173 EDPGEGEA 181

RESULT 40
US-10-453-372-50
; Sequence 50, Application US/10453372
; Publication No. US2006000323A1
GENERAL INFORMATION:
; APPLICANT: Alsobrook, et al.
; TITLE OF INVENTION: THERAPEUTIC POLYPEPTIDES, NUCLEIC ACIDS ENCODING SAME, AND METHOD
; FILE REFERENCE: 21402-589 A
CURRENT APPLICATION NUMBER: US/10/453,372
CURRENT FILING DATE: 2003-06-03
PRIOR APPLICATION NUMBER: 09/789390
PRIOR FILING DATE: 2001-02-23
PRIOR APPLICATION NUMBER: 60/185967
PRIOR FILING DATE: 2000-03-01
PRIOR APPLICATION NUMBER: 09/823187
PRIOR FILING DATE: 2001-03-29
PRIOR APPLICATION NUMBER: 60/195792
PRIOR FILING DATE: 2000-03-10
PRIOR APPLICATION NUMBER: 09/839446
PRIOR FILING DATE: 2001-03-19
PRIOR APPLICATION NUMBER: 60/199476
PRIOR FILING DATE: 2000-03-25
PRIOR APPLICATION NUMBER: 09/863776
PRIOR FILING DATE: 2001-05-23
PRIOR APPLICATION NUMBER: 60/208263
PRIOR FILING DATE: 2000-05-31
```

```

; PRIOR APPLICATION NUMBER: 09/939398
; PRIOR FILING DATE: 2001-08-24
; PRIOR APPLICATION NUMBER: 60/227800
; PRIOR FILING DATE: 2000-08-25
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 1609
; SOFTWARE: CuraseqList version 0.1
; SEQ ID NO 50
; LENGTH: 869
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-453-372-50

Query Match
Best Local Similarity 71.4%; Score 32; DB 9; Length 869;
Pred. No. 2.5e+02;
Matches 5; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 3 DGPAGQA 9
Db 819 DGPAGQA 825

RESULT 41
US-10-453-372-38
; Sequence 38, Application US/10453372
; Publication No. US2006000323A1
GENERAL INFORMATION:
; APPLICANT: Alsobrook, et al.
; TITLE OF INVENTION: THERAPEUTIC POLYPEPTIDES, NUCLEIC ACIDS ENCODING SAME, AND METHOD
; FILE REFERENCE: 21402-589 A
CURRENT APPLICATION NUMBER: US/10/453,372
CURRENT FILING DATE: 2003-06-03
PRIOR APPLICATION NUMBER: 09/789390
PRIOR FILING DATE: 2001-02-23
PRIOR APPLICATION NUMBER: 60/185967
PRIOR FILING DATE: 2000-03-01
PRIOR APPLICATION NUMBER: 09/823187
PRIOR FILING DATE: 2001-03-29
PRIOR APPLICATION NUMBER: 60/195792
PRIOR FILING DATE: 2000-03-10
PRIOR APPLICATION NUMBER: 09/839446
PRIOR FILING DATE: 2001-03-19
PRIOR APPLICATION NUMBER: 60/199476
PRIOR FILING DATE: 2000-03-25
PRIOR APPLICATION NUMBER: 09/863776
PRIOR FILING DATE: 2001-05-23
PRIOR APPLICATION NUMBER: 60/208263
PRIOR FILING DATE: 2000-05-31
PRIOR APPLICATION NUMBER: 09/939398
PRIOR FILING DATE: 2001-08-24
PRIOR APPLICATION NUMBER: 60/227800
PRIOR FILING DATE: 2000-08-25
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 1609
; SOFTWARE: CuraseqList version 0.1
; SEQ ID NO 38
; LENGTH: 2612
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-453-372-38

Query Match
Best Local Similarity 71.4%; Score 32; DB 9; Length 2612;
Pred. No. 7.9e+02;
Matches 5; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 3 DGPAGQA 9
Db 2132 DGPAGQA 2138

RESULT 42
US-10-453-372-36
; Sequence 36, Application US/10453372
```

```
; Publication No. US2006003323A1
; GENERAL INFORMATION:
; APPLICANT: Alsbrook, et al.
; TITLE OF INVENTION: THERAPEUTIC POLYPEPTIDES, NUCLEIC ACIDS ENCODING SAME, AND METHOD
; FILE REFERENCE: 21402-589 A
; CURRENT APPLICATION NUMBER: US/10/453,372
; CURRENT FILING DATE: 2003-06-03
; PRIOR APPLICATION NUMBER: 09/789390
; PRIOR FILING DATE: 2001-02-23
; PRIOR APPLICATION NUMBER: 60/185967
; PRIOR FILING DATE: 2000-03-01
; PRIOR APPLICATION NUMBER: 09/823187
; PRIOR FILING DATE: 2001-03-29
; PRIOR APPLICATION NUMBER: 60/195792
; PRIOR FILING DATE: 2000-03-10
; PRIOR APPLICATION NUMBER: 09/839446
; PRIOR FILING DATE: 2001-03-19
; PRIOR APPLICATION NUMBER: 60/199476
; PRIOR FILING DATE: 2000-03-25
; PRIOR APPLICATION NUMBER: 09/863776
; PRIOR FILING DATE: 2001-05-23
; PRIOR APPLICATION NUMBER: 60/208263
; PRIOR FILING DATE: 2000-05-31
; PRIOR APPLICATION NUMBER: 09/939398
; PRIOR FILING DATE: 2001-08-24
; PRIOR APPLICATION NUMBER: 60/227800
; PRIOR FILING DATE: 2000-08-25
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 1609
; SOFTWARE: CuroSeqqlist version 0.1
; SEQ ID NO 36
; LENGTH: 2669
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-453-372-36

Query Match      68.1%; Score 32; DB 9; Length 2669;
Best Local Similarity 71.4%; Pred. No. 8.1e+02;
Matches 5; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY      3 DGPAGQA 9
Db      2132 DGPAGQA 2138

RESULT 43
US-10-453-372-34
; Sequence 34, Application US/10453372
; Publication No. US2006003323A1
; GENERAL INFORMATION:
; APPLICANT: Alsbrook, et al.
; TITLE OF INVENTION: THERAPEUTIC POLYPEPTIDES, NUCLEIC ACIDS ENCODING SAME, AND METHOD
; FILE REFERENCE: 21402-589 A
; CURRENT APPLICATION NUMBER: US/10/453,372
; CURRENT FILING DATE: 2003-06-03
; PRIOR APPLICATION NUMBER: 09/789390
; PRIOR FILING DATE: 2001-02-23
; PRIOR APPLICATION NUMBER: 60/185967
; PRIOR FILING DATE: 2000-03-01
; PRIOR APPLICATION NUMBER: 09/823187
; PRIOR FILING DATE: 2001-03-29
; PRIOR APPLICATION NUMBER: 60/195792
; PRIOR FILING DATE: 2000-03-10
; PRIOR APPLICATION NUMBER: 09/839446
; PRIOR FILING DATE: 2001-03-19
; PRIOR APPLICATION NUMBER: 60/199476
; PRIOR FILING DATE: 2000-03-25
; PRIOR APPLICATION NUMBER: 09/863776
; PRIOR FILING DATE: 2001-05-23
; PRIOR APPLICATION NUMBER: 60/208263
; PRIOR FILING DATE: 2000-05-31
; PRIOR APPLICATION NUMBER: 09/939398
; PRIOR FILING DATE: 2001-08-24
; PRIOR APPLICATION NUMBER: 60/227800
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 1609
; SOFTWARE: CuroSeqqlist version 0.1
; SEQ ID NO 62
; LENGTH: 3104
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-453-372-62

Query Match      68.1%; Score 32; DB 9; Length 3104;
Best Local Similarity 71.4%; Pred. No. 9.5e+02;
Matches 5; Conservative 2; Mismatches 0; Indels 0; Gaps 0;
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; PRIOR APPLICATION NUMBER: 60/227800
; PRIOR FILING DATE: 2000-08-25
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 1609
; SOFTWARE: CuroSeqqlist version 0.1
; SEQ ID NO 34
; LENGTH: 3104
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-453-372-34

Query Match      68.1%; Score 32; DB 9; Length 3104;
Best Local Similarity 71.4%; Pred. No. 9.5e+02;
Matches 5; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY      3 DGPAGQA 9
Db      2132 DGPAGQA 2138

RESULT 44
US-10-453-372-62
; Sequence 62, Application US/10453372
; Publication No. US2006003323A1
; GENERAL INFORMATION:
; APPLICANT: Alsbrook, et al.
; TITLE OF INVENTION: THERAPEUTIC POLYPEPTIDES, NUCLEIC ACIDS ENCODING SAME, AND METHOD
; FILE REFERENCE: 21402-589 A
; CURRENT APPLICATION NUMBER: US/10/453,372
; CURRENT FILING DATE: 2003-06-03
; PRIOR APPLICATION NUMBER: 09/789390
; PRIOR FILING DATE: 2001-02-23
; PRIOR APPLICATION NUMBER: 60/185967
; PRIOR FILING DATE: 2000-03-01
; PRIOR APPLICATION NUMBER: 09/823187
; PRIOR FILING DATE: 2001-03-29
; PRIOR APPLICATION NUMBER: 60/195792
; PRIOR FILING DATE: 2000-03-10
; PRIOR APPLICATION NUMBER: 09/839446
; PRIOR FILING DATE: 2001-03-19
; PRIOR APPLICATION NUMBER: 60/199476
; PRIOR FILING DATE: 2000-03-25
; PRIOR APPLICATION NUMBER: 09/863776
; PRIOR FILING DATE: 2001-05-23
; PRIOR APPLICATION NUMBER: 60/208263
; PRIOR FILING DATE: 2000-05-31
; PRIOR APPLICATION NUMBER: 09/939398
; PRIOR FILING DATE: 2001-08-24
; PRIOR APPLICATION NUMBER: 60/227800
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 1609
; SOFTWARE: CuroSeqqlist version 0.1
; SEQ ID NO 62
; LENGTH: 3104
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-453-372-62

Query Match      68.1%; Score 32; DB 9; Length 3104;
Best Local Similarity 71.4%; Pred. No. 9.5e+02;
Matches 5; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY      3 DGPAGQA 9
Db      2132 DGPAGQA 2138

RESULT 45
US-10-453-372-64
; Sequence 64, Application US/10453372
; Publication No. US2006003323A1
; GENERAL INFORMATION:
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APPLICANT: Alsobrook, et al.
TITLE OF INVENTION: THERAPEUTIC POLYPEPTIDES, NUCLEIC ACIDS ENCODING SAME, AND METHOD
FILE REFERENCE: 21402-589 A
CURRENT APPLICATION NUMBER: US/10/453,372
CURRENT FILING DATE: 2003-06-03
PRIOR APPLICATION NUMBER: 09/789390
PRIOR FILING DATE: 2001-02-23
PRIOR APPLICATION NUMBER: 60/185967
PRIOR FILING DATE: 2000-03-01
PRIOR APPLICATION NUMBER: 09/823187
PRIOR FILING DATE: 2001-03-29
PRIOR APPLICATION NUMBER: 60/195792
PRIOR FILING DATE: 2000-03-10
PRIOR APPLICATION NUMBER: 09/839446
PRIOR FILING DATE: 2001-03-19
PRIOR APPLICATION NUMBER: 60/199476
PRIOR FILING DATE: 2000-03-25
PRIOR APPLICATION NUMBER: 09/863776
PRIOR FILING DATE: 2001-05-23
PRIOR APPLICATION NUMBER: 60/208263
PRIOR FILING DATE: 2000-05-31
PRIOR APPLICATION NUMBER: 09/939398
PRIOR FILING DATE: 2001-08-24
PRIOR APPLICATION NUMBER: 60/227800
PRIOR FILING DATE: 2000-08-25
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 1609
SOFTWARE: CuroSeqList version 0.1
SEQ ID NO 64
LENGTH: 3104
TYPE: PRT
ORGANISM: Homo sapiens
US-10-453-372-64

Query Match      68.1%; Score 32; DB 9; Length 3104;
Best Local Similarity 71.4%; Pred. No. 9.5e+02;
Matches 5; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY      3 DGPAGQA 9
Db      2132 DGPSCQS 2138

RESULT 46
US-10-453-372-42
Sequence 42, Application US/10453372
Publication No. US2006003323A1
GENERAL INFORMATION:
APPLICANT: Alsobrook, et al.
TITLE OF INVENTION: THERAPEUTIC POLYPEPTIDES, NUCLEIC ACIDS ENCODING SAME, AND METHOD
FILE REFERENCE: 21402-589 A
CURRENT APPLICATION NUMBER: US/10/453,372
CURRENT FILING DATE: 2003-06-03
PRIOR APPLICATION NUMBER: 09/789390
PRIOR FILING DATE: 2001-02-23
PRIOR APPLICATION NUMBER: 60/185967
PRIOR FILING DATE: 2000-03-01
PRIOR APPLICATION NUMBER: 09/823187
PRIOR FILING DATE: 2001-03-29
PRIOR APPLICATION NUMBER: 60/195792
PRIOR FILING DATE: 2000-03-10
PRIOR APPLICATION NUMBER: 09/839446
PRIOR FILING DATE: 2001-03-19
PRIOR APPLICATION NUMBER: 60/199476
PRIOR FILING DATE: 2000-03-25
PRIOR APPLICATION NUMBER: 09/863776
PRIOR FILING DATE: 2001-05-23
PRIOR APPLICATION NUMBER: 60/208263
PRIOR FILING DATE: 2000-05-31
PRIOR APPLICATION NUMBER: 09/939398
PRIOR FILING DATE: 2001-08-24
PRIOR APPLICATION NUMBER: 60/227800
PRIOR FILING DATE: 2000-08-25
```

```
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 1609
SOFTWARE: CuroSeqList version 0.1
SEQ ID NO 42
LENGTH: 3130
TYPE: PRT
ORGANISM: Homo sapiens
US-10-453-372-42

Query Match      68.1%; Score 32; DB 9; Length 3130;
Best Local Similarity 71.4%; Pred. No. 9.5e+02;
Matches 5; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY      3 DGPAGQA 9
Db      2058 DGPSCQS 2064

RESULT 47
US-10-453-372-40
Sequence 40, Application US/10453372
Publication No. US2006003323A1
GENERAL INFORMATION:
APPLICANT: Alsobrook, et al.
TITLE OF INVENTION: THERAPEUTIC POLYPEPTIDES, NUCLEIC ACIDS ENCODING SAME, AND METHOD
FILE REFERENCE: 21402-589 A
CURRENT APPLICATION NUMBER: US/10/453,372
CURRENT FILING DATE: 2003-06-03
PRIOR APPLICATION NUMBER: 09/789390
PRIOR FILING DATE: 2001-02-23
PRIOR APPLICATION NUMBER: 60/185967
PRIOR FILING DATE: 2000-03-01
PRIOR APPLICATION NUMBER: 09/823187
PRIOR FILING DATE: 2001-03-29
PRIOR APPLICATION NUMBER: 60/195792
PRIOR FILING DATE: 2000-03-10
PRIOR APPLICATION NUMBER: 09/839446
PRIOR FILING DATE: 2001-03-19
PRIOR APPLICATION NUMBER: 60/199476
PRIOR FILING DATE: 2000-03-25
PRIOR APPLICATION NUMBER: 09/863776
PRIOR FILING DATE: 2001-05-23
PRIOR APPLICATION NUMBER: 60/208263
PRIOR FILING DATE: 2000-05-31
PRIOR APPLICATION NUMBER: 09/939398
PRIOR FILING DATE: 2001-08-24
PRIOR APPLICATION NUMBER: 60/227800
PRIOR FILING DATE: 2000-08-25
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 1609
SOFTWARE: CuroSeqList version 0.1
SEQ ID NO 40
LENGTH: 3483
TYPE: PRT
ORGANISM: Homo sapiens
US-10-453-372-40

Query Match      68.1%; Score 32; DB 9; Length 3483;
Best Local Similarity 71.4%; Pred. No. 1.1e+03;
Matches 5; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY      3 DGPAGQA 9
Db      2353 DGPSCQS 2359

RESULT 48
US-10-453-372-32
Sequence 32, Application US/10453372
Publication No. US2006003323A1
GENERAL INFORMATION:
APPLICANT: Alsobrook, et al.
TITLE OF INVENTION: THERAPEUTIC POLYPEPTIDES, NUCLEIC ACIDS ENCODING SAME, AND METHOD
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FEATURE:
; NAME/KEY: UNSURE
; LOCATION: (126)
FEATURE:
; NAME/KEY: UNSURE
; LOCATION: (130)
US-11-120-308-60

Query Match 66.0%; Score 31; DB 11; Length 137;
Best Local Similarity 75.0%; Pred. NO. 58;
Matches 6; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 2 IDGPAGQA 9
Db 22 IDGPYGSA 29

Search completed: May 5, 2006, 08:51:40
Job time : 9.4 secs

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STIC Search Report

Biotech-Chem Library

STIC Database Tracking Number: 188266

TO: Nita M Minnifield
Location: rem-3c01/3c18
Art Unit: 1645
Wednesday, May 10, 2006
Case Serial Number: 08/170344

From: Kristine Hensle
Location: Biotech-Chem Library
REM-1B69
Phone: (571)272-4161

Kristine.Hensle@uspto.gov

Search Notes

Examiner Minnifield,

See attached results. This packet is part 5 of 8.

If you have any questions about this search feel free to contact me at any time.

Thank you for using STIC search services!

Kristine Hensle
Librarian
STIC Biotech/Chem Library
(571)272-4161

*Reviewed
5/11/06
nm*

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GenCore version 5.1.7
Copyright (c) 1993 - 2006 Bioacceleration Ltd.

OM protein - protein search, using SW model

Run on: May 5, 2006, 04:01:20 ; Search time 20.7 Seconds
(without alignments)
35.946 Million cell updates/sec

Title: US-08-170-344-40
Perfect score: 47
Sequence: 1 HYDRLTLED 9

Scoring table: BIOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 572060 seqs, 82675679 residues
Total number of hits satisfying chosen parameters: 572060

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 1000 summaries

Database : Issued Patents AA: *
1: /cgn2_6/ptodata/1/1aa/5.COMB.pep: *
2: /cgn2_6/ptodata/1/1aa/6.COMB.pep: *
3: /cgn2_6/ptodata/1/1aa/H.COMB.pep: *
4: /cgn2_6/ptodata/1/1aa/PCITUS.COMB.pep: *
5: /cgn2_6/ptodata/1/1aa/RE.COMB.pep: *
6: /cgn2_6/ptodata/1/1aa/backfillies.pep: *

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	47	100.0	9	2	US-08-159-339A-217
2	47	100.0	10	2	US-10-365-908-43
3	47	100.0	20	2	US-08-075-541D-49
4	47	100.0	20	2	US-09-980-177A-75
5	47	100.0	21	1	US-08-934-915-49
6	47	100.0	26	2	US-08-075-541D-40
7	47	100.0	28	2	US-09-486-394-5
8	47	100.0	30	1	US-08-934-915-53
9	47	100.0	30	1	US-08-934-915-54
10	47	100.0	30	1	US-08-486-394-4
11	47	100.0	98	1	US-08-406-248-6
12	47	100.0	98	2	US-08-075-541D-42
13	47	100.0	98	2	US-09-382-616A-1
14	47	100.0	98	2	US-08-944-368A-4
15	47	100.0	98	2	US-09-820-764-4
16	47	100.0	98	2	US-09-613-303-8
17	47	100.0	98	2	US-09-566-420-19
18	47	100.0	98	2	US-09-986-118A-4
19	47	100.0	98	2	US-09-728-466-1
20	47	100.0	98	2	US-09-824-017-4
21	47	100.0	98	2	US-10-267-311-8
22	47	100.0	98	2	US-10-201-764-19
23	47	100.0	98	2	US-09-637-746-3
24	47	100.0	98	2	US-09-501-097A-7
25	47	100.0	98	2	US-09-980-523A-12
26	47	100.0	121	2	US-09-613-303-12
27	47	100.0	121	2	US-10-267-311-12

28	47	100.0	172	2	US-08-860-165-14	Sequence 14, Appl
29	47	100.0	172	2	US-09-359-382-14	Sequence 14, Appl
30	47	100.0	185	2	US-09-462-993-2	Sequence 2, Appl
31	47	100.0	185	2	US-09-613-303-35	Sequence 35, Appl
32	47	100.0	198	2	US-10-267-311-35	Sequence 35, Appl
33	47	100.0	220	2	US-09-485-885-1	Sequence 1, Appl
34	47	100.0	220	2	US-09-485-885-8	Sequence 8, Appl
35	47	100.0	229	2	US-09-485-885-12	Sequence 12, Appl
36	47	100.0	233	1	US-08-459-818-20	Sequence 20, Appl
37	47	100.0	253	1	US-08-889-666-20	Sequence 20, Appl
38	47	100.0	253	1	US-08-465-078-20	Sequence 20, Appl
39	47	100.0	253	1	US-08-725-776-20	Sequence 20, Appl
40	47	100.0	253	1	US-08-488-062-20	Sequence 20, Appl
41	47	100.0	263	1	US-08-117-083-9	Sequence 9, Appl
42	47	100.0	266	2	US-08-860-165-10	Sequence 10, Appl
43	47	100.0	266	2	US-09-359-382-10	Sequence 10, Appl
44	47	100.0	266	2	US-09-367-309A-1	Sequence 1, Appl
45	47	100.0	287	2	US-09-501-097A-25	Sequence 25, Appl
46	47	100.0	295	2	US-09-613-303-33	Sequence 33, Appl
47	47	100.0	295	2	US-10-267-311-33	Sequence 33, Appl
48	47	100.0	324	2	US-09-613-303-25	Sequence 25, Appl
49	47	100.0	324	2	US-10-267-311-25	Sequence 25, Appl
50	47	100.0	371	2	US-09-485-885-6	Sequence 6, Appl
51	47	100.0	390	2	US-09-485-885-14	Sequence 14, Appl
52	47	100.0	420	2	US-09-501-097A-22	Sequence 22, Appl
53	47	100.0	493	2	US-09-613-303-19	Sequence 19, Appl
54	47	100.0	493	2	US-10-267-311-19	Sequence 19, Appl
55	47	100.0	639	2	US-09-613-303-17	Sequence 17, Appl
56	47	100.0	639	2	US-10-267-311-17	Sequence 17, Appl
57	47	100.0	641	2	US-09-613-303-51	Sequence 51, Appl
58	47	100.0	641	2	US-10-267-311-51	Sequence 51, Appl
59	47	100.0	647	2	US-09-613-303-53	Sequence 53, Appl
60	47	100.0	647	2	US-10-267-311-53	Sequence 53, Appl
61	47	100.0	648	2	US-09-613-303-29	Sequence 29, Appl
62	47	100.0	648	2	US-10-267-311-29	Sequence 29, Appl
63	47	100.0	711	2	US-09-613-303-41	Sequence 41, Appl
64	47	100.0	711	2	US-10-267-311-41	Sequence 41, Appl
65	47	100.0	723	2	US-09-501-097A-20	Sequence 20, Appl
66	47	100.0	724	2	US-09-613-303-45	Sequence 45, Appl
67	47	100.0	724	2	US-10-267-311-45	Sequence 45, Appl
68	47	100.0	724	2	US-10-267-311-45	Sequence 45, Appl
69	47	87.2	19	2	US-08-075-541D-39	Sequence 39, Appl
70	47	87.2	20	2	US-09-828-645-4	Sequence 4, Appl
71	47	87.2	20	2	US-09-828-645-8	Sequence 8, Appl
72	39	83.0	9	2	US-10-365-908-20	Sequence 20, Appl
73	37	78.7	21	1	US-08-934-915-156	Sequence 156, Appl
74	36	76.6	9	2	US-10-365-908-41	Sequence 41, Appl
75	36	76.6	17	2	US-08-075-541D-48	Sequence 48, Appl
76	35	74.5	8	2	US-10-365-908-31	Sequence 31, Appl
77	35	74.5	9	2	US-10-365-908-28	Sequence 28, Appl
78	35	74.5	20	2	US-08-075-541D-50	Sequence 50, Appl
79	35	74.5	631	2	US-09-902-540-12106	Sequence 12106, A
80	34	72.3	190	2	US-09-248-796A-16727	Sequence 16727, A
81	34	72.3	422	1	US-08-403-852D-17	Sequence 17, Appl
82	34	72.3	422	2	US-08-510-646B-18	Sequence 18, Appl
83	34	72.3	422	2	US-09-231-818-17	Sequence 17, Appl
84	34	72.3	422	2	US-09-635-359B-17	Sequence 17, Appl
85	33	70.2	79	2	US-09-513-999C-7312	Sequence 7312, Ap
86	33	70.2	228	2	US-09-328-352-5239	Sequence 5239, Ap
87	33	70.2	270	2	US-09-489-039A-3313	Sequence 9313, Ap
88	33	70.2	648	1	US-08-185-282-1	Sequence 1, Appl
89	33	70.2	648	1	US-08-185-282-2	Sequence 2, Appl
90	33	70.2	648	1	US-08-185-282-3	Sequence 3, Appl
91	33	70.2	648	1	US-08-185-282-4	Sequence 4, Appl
92	33	70.2	648	1	US-08-185-282-5	Sequence 5, Appl
93	33	70.2	699	2	US-10-104-047-2814	Sequence 2814, Ap
94	33	70.2	748	2	US-09-252-991A-31702	Sequence 31702, A
95	33	70.2	881	2	US-09-248-796A-20220	Sequence 20220, A
96	32	68.1	60	2	US-09-006-675-6	Sequence 6, Appl
97	32	68.1	94	1	US-09-228-603A-6	Sequence 6, Appl
98	32	68.1	122	2	US-09-621-976-3959	Sequence 3959, Ap
99	32	68.1	172	2	US-08-916-576B-4	Sequence 4, Appl
100	32	68.1	172	2	US-08-916-576B-4	Sequence 4, Appl

101	32	68.1	172	2	US-10-078-337-4	Sequence 4, Appl1	174	30	63.8	563	2	US-09-949-016-8277	Sequence 8277, Ap
102	32	68.1	190	2	US-09-270-767-32641	Sequence 32641, A	175	30	63.8	571	2	US-09-538-092-737	Sequence 737, Ap
103	32	68.1	202	2	US-09-902-340-16034	Sequence 16034, A	176	30	63.8	691	2	US-09-889-746-8	Sequence 8, Appl1
104	32	68.1	322	2	US-09-270-767-60908	Sequence 60908, A	177	30	63.8	802	2	US-09-156-316-1	Sequence 1, Appl1
105	32	68.1	337	2	US-09-198-452A-411	Sequence 411, App	178	30	63.8	802	2	US-09-757-049A-1	Sequence 11, Appl1
106	32	68.1	346	2	US-09-438-185A-392	Sequence 392, App	179	30	63.8	802	2	US-09-949-016-11705	Sequence 11705, A
107	32	68.1	381	2	US-09-417-485D-47	Sequence 47, Appl	180	30	63.8	906	2	US-09-252-991A-31458	Sequence 31458, A
108	32	68.1	382	2	US-09-270-767-45405	Sequence 45405, A	181	30	63.8	992	2	US-10-104-047-2473	Sequence 2473, Ap
109	32	68.1	394	2	US-09-134-000C-4332	Sequence 4332, Ap	182	30	63.8	1224	2	US-09-930-872-4	Sequence 4, Appl1
110	32	68.1	468	1	US-08-959-011-3	Sequence 3, Appl1	183	30	63.8	1224	2	US-10-217-774-4	Sequence 4, Appl1
111	32	68.1	496	1	US-09-006-675-2	Sequence 2, Appl1	184	30	63.8	1576	2	US-09-562-702A-24	Sequence 24, Appl
112	32	68.1	496	2	US-09-228-603A-2	Sequence 2, Appl1	185	30	63.8	1576	2	US-09-561-818A-24	Sequence 24, Appl
113	32	68.1	536	2	US-09-816-028A-19	Sequence 19, Appl1	186	30	63.8	1576	2	US-10-037-182-16	Sequence 16, Appl
114	32	68.1	536	2	US-09-816-028A-25	Sequence 25, Appl	187	30	63.8	1584	2	US-09-562-702A-28	Sequence 28, Appl
115	32	68.1	536	2	US-10-303-162-19	Sequence 19, Appl	188	30	63.8	1609	2	US-09-562-702A-22	Sequence 22, Appl
116	32	68.1	536	2	US-10-303-162-25	Sequence 25, Appl	189	30	63.8	1609	2	US-09-561-818A-22	Sequence 22, Appl
117	32	68.1	536	2	US-10-303-134-19	Sequence 19, Appl	190	30	63.8	1609	2	US-09-538-092-900	Sequence 900, App
118	32	68.1	536	2	US-10-303-134-25	Sequence 25, Appl	191	30	63.8	1609	2	US-10-037-182-14	Sequence 14, Appl
119	32	68.1	536	2	US-10-303-118-19	Sequence 19, Appl	192	30	63.8	1617	2	US-09-562-702A-26	Sequence 26, Appl
120	32	68.1	536	2	US-10-303-118-25	Sequence 25, Appl	193	29.5	62.8	404	2	US-10-251-078-10	Sequence 10, Appl
121	32	68.1	536	2	US-10-303-128-19	Sequence 19, Appl	194	29.5	62.8	404	2	US-10-251-078-12	Sequence 12, Appl
122	32	68.1	536	2	US-10-303-128-25	Sequence 25, Appl	195	29.5	62.8	404	2	US-10-251-078-14	Sequence 14, Appl
123	32	68.1	561	2	US-09-107-532A-3677	Sequence 3677, Ap	196	29.5	62.8	404	2	US-10-251-078-16	Sequence 16, Appl
124	32	68.1	662	2	US-09-583-110-4571	Sequence 4571, Ap	197	29.5	62.8	404	2	US-10-251-078-18	Sequence 18, Appl
125	32	68.1	679	2	US-09-107-433-3402	Sequence 3402, Ap	198	29.5	62.8	404	2	US-10-251-078-20	Sequence 20, Appl
126	32	68.1	955	2	US-09-949-016-7913	Sequence 7913, Ap	199	29.5	62.8	404	2	US-10-251-078-22	Sequence 22, Appl
127	31	66.0	58	1	US-08-470-179-12	Sequence 12, Appl	200	29	61.7	9	2	US-10-365-908-33	Sequence 33, Appl
128	31	66.0	183	1	US-09-902-540-12773	Sequence 12773, A	201	29	61.7	38	1	US-07-977-630-70	Sequence 70, Appl
129	31	66.0	199	2	US-09-248-796A-17427	Sequence 17427, A	202	29	61.7	38	2	US-09-269-917-25	Sequence 25, Appl
130	31	66.0	242	2	US-09-134-000C-4497	Sequence 4497, Ap	203	29	61.7	56	2	US-09-621-976-7471	Sequence 7471, Ap
131	31	66.0	249	2	US-09-543-681A-4882	Sequence 4882, Ap	204	29	61.7	60	2	US-10-179-784-30	Sequence 30, Appl
132	31	66.0	272	2	US-09-489-039A-1378	Sequence 13748, A	205	29	61.7	69	2	US-09-248-796A-21428	Sequence 21428, A
133	31	66.0	300	2	US-09-902-540-11546	Sequence 11546, A	206	29	61.7	133	2	US-09-902-540-15791	Sequence 15791, A
134	31	66.0	310	2	US-09-602-777A-328	Sequence 328, App	207	29	61.7	139	2	US-09-513-999C-4802	Sequence 4802, Ap
135	31	66.0	367	1	US-08-515-251A-4	Sequence 4, Appl1	208	29	61.7	166	2	US-09-499-148-3	Sequence 3, Appl1
136	31	66.0	399	2	US-09-252-292C-24	Sequence 24, Appl1	209	29	61.7	183	2	US-09-122-443-11	Sequence 11, Appl
137	31	66.0	399	2	US-09-153-599A-9	Sequence 9, Appl1	210	29	61.7	183	2	US-09-558-089-11	Sequence 11, Appl
138	31	66.0	399	2	US-09-567-615B-13	Sequence 13, Appl1	211	29	61.7	183	2	US-09-558-087-11	Sequence 11, Appl
139	31	66.0	433	2	US-09-902-540-13296	Sequence 13296, A	212	29	61.7	183	2	US-09-558-074-11	Sequence 11, Appl
140	31	66.0	484	2	US-09-066-046-8	Sequence 8, Appl1	213	29	61.7	184	2	US-09-949-016-7172	Sequence 7172, Ap
141	31	66.0	613	2	US-09-800-729-82	Sequence 82, Appl	214	29	61.7	192	2	US-09-198-452A-979	Sequence 979, App
142	31	66.0	613	2	US-09-800-729-98	Sequence 98, Appl	215	29	61.7	192	2	US-09-438-185A-908	Sequence 908, App
143	31	66.0	619	2	US-09-066-046-2	Sequence 2, Appl1	216	29	61.7	201	2	US-09-538-092-128	Sequence 128, App
144	31	66.0	789	2	US-09-198-452A-288	Sequence 288, Appl	217	29	61.7	228	2	US-09-252-991A-26434	Sequence 26434, A
145	31	66.0	806	2	US-09-438-185A-277	Sequence 277, App	218	29	61.7	258	2	US-09-248-796A-18315	Sequence 18315, A
146	30	63.8	285	2	US-09-543-681A-7935	Sequence 7935, Ap	219	29	61.7	258	2	US-09-513-999C-4800	Sequence 4800, Ap
147	30	63.8	289	2	US-09-489-039A-14318	Sequence 14318, A	220	29	61.7	264	2	US-09-949-016-6012	Sequence 6012, Ap
148	30	63.8	292	2	US-09-328-352-8057	Sequence 8057, Ap	221	29	61.7	267	1	US-08-557-128-4	Sequence 4, Appl1
149	30	63.8	293	2	US-09-662-254B-75	Sequence 75, Appl	222	29	61.7	267	2	US-09-242-690A-36	Sequence 36, Appl
150	30	63.8	333	2	US-09-538-092-778	Sequence 778, App	223	29	61.7	267	2	US-09-908-855-36	Sequence 36, Appl
151	30	63.8	346	1	US-08-928-352-5625	Sequence 5625, Ap	224	29	61.7	272	2	US-09-949-016-110013	Sequence 110013, A
152	30	63.8	348	1	US-08-997-080-170	Sequence 170, App	225	29	61.7	276	2	US-09-949-016-11703	Sequence 11703, A
153	30	63.8	348	1	US-08-997-362-170	Sequence 170, App	226	29	61.7	280	2	US-09-292-858A-8	Sequence 8, Appl1
154	30	63.8	348	1	US-09-095-855-170	Sequence 170, App	227	29	61.7	285	2	US-09-187-050-12	Sequence 12, Appl
155	30	63.8	348	2	US-09-324-542-170	Sequence 170, App	228	29	61.7	300	2	US-09-949-016-11479	Sequence 11479, A
156	30	63.8	348	2	US-09-205-426-170	Sequence 170, App	229	29	61.7	311	2	US-09-902-540-10771	Sequence 10771, A
157	30	63.8	380	2	US-09-949-016-10856	Sequence 10856, A	230	29	61.7	311	2	US-09-716-964B-148	Sequence 148, App
158	30	63.8	393	1	US-08-997-080-94	Sequence 94, Appl	231	29	61.7	322	2	US-09-902-540-15719	Sequence 15719, A
159	30	63.8	393	1	US-08-997-362-94	Sequence 94, Appl	232	29	61.7	339	2	US-09-328-352-4144	Sequence 4144, Ap
160	30	63.8	393	2	US-08-873-970-94	Sequence 94, Appl	233	29	61.7	339	2	US-09-489-039A-11336	Sequence 11336, A
161	30	63.8	393	2	US-09-095-855-94	Sequence 94, Appl	234	29	61.7	344	2	US-09-949-002-487	Sequence 487, App
162	30	63.8	393	2	US-09-324-542-94	Sequence 94, Appl	235	29	61.7	349	2	US-09-328-352-6132	Sequence 6132, App
163	30	63.8	393	2	US-09-205-426-94	Sequence 94, Appl	236	29	61.7	349	2	US-09-543-681A-5041	Sequence 5041, Ap
164	30	63.8	418	2	US-09-710-279-380	Sequence 380, App	237	29	61.7	361	2	US-09-605-703B-576	Sequence 576, App
165	30	63.8	430	2	US-09-134-001C-4302	Sequence 4302, Ap	238	29	61.7	361	2	US-09-605-703B-578	Sequence 578, App
166	30	63.8	430	2	US-10-104-047-2265	Sequence 2265, Ap	239	29	61.7	369	2	US-09-252-991A-17960	Sequence 17960, A
167	30	63.8	439	2	US-09-252-991A-20570	Sequence 20570, A	240	29	61.7	371	2	US-09-252-991A-32244	Sequence 32244, A
168	30	63.8	460	2	US-09-949-016-6663	Sequence 6663, Ap	241	29	61.7	380	2	US-09-328-352-7161	Sequence 7161, Ap
169	30	63.8	470	1	US-08-959-011-1	Sequence 1, Appl1	242	29	61.7	393	2	US-09-187-050-2	Sequence 2, Appl1
170	30	63.8	484	2	US-09-248-796A-18829	Sequence 18829, A	243	29	61.7	393	2	US-09-187-050-14	Sequence 14, Appl
171	30	63.8	491	2	US-09-930-872-2	Sequence 2, Appl1	244	29	61.7	393	2	US-09-187-050-16	Sequence 16, Appl
172	30	63.8	491	2	US-10-217-774-2	Sequence 2, Appl1	245	29	61.7	393	2	US-09-187-050-18	Sequence 18, Appl
173	30	63.8	494	2	US-09-248-796A-19472	Sequence 19472, A	246	29	61.7	393	2	US-09-187-050-20	Sequence 20, Appl

247	29	61.7	393	2	US-09-187-050-22	Sequence 22, Appl	320	28	59.6	92	2	US-08-905-223-322	Sequence 322, App
248	29	61.7	393	2	US-09-187-050-24	Sequence 24, Appl	321	28	59.6	100	2	US-09-107-532A-4374	Sequence 4374, Ap
249	29	61.7	393	2	US-09-187-050-26	Sequence 26, Appl	322	28	59.6	109	2	US-09-614-912-158	Sequence 158, App
250	29	61.7	393	2	US-09-187-050-27	Sequence 27, Appl	323	28	59.6	136	2	US-09-270-767-33787	Sequence 33787, A
251	29	61.7	393	2	US-09-187-050-28	Sequence 28, Appl	324	28	59.6	136	2	US-09-270-767-49004	Sequence 49004, A
252	29	61.7	393	2	US-09-187-050-29	Sequence 29, Appl	325	28	59.6	137	2	US-09-134-000C-5507	Sequence 5507, Ap
253	29	61.7	393	2	US-09-187-050-30	Sequence 30, Appl	326	28	59.6	141	1	US-07-956-7008-67	Sequence 67, Appl
254	29	61.7	393	2	US-09-187-050-31	Sequence 31, Appl	327	28	59.6	141	1	US-08-476-537-67	Sequence 67, Appl
255	29	61.7	393	2	US-09-187-050-32	Sequence 32, Appl	328	28	59.6	141	1	US-08-485-607-67	Sequence 67, Appl
256	29	61.7	393	2	US-09-187-050-33	Sequence 33, Appl	329	28	59.6	141	1	US-08-475-879-67	Sequence 67, Appl
257	29	61.7	393	2	US-09-187-050-34	Sequence 34, Appl	330	28	59.6	148	2	US-09-640-211A-790	Sequence 790, App
258	29	61.7	422	2	US-09-583-110-1844	Sequence 3844, Ap	331	28	59.6	155	2	US-09-710-279-2704	Sequence 2704, Ap
259	29	61.7	426	2	US-09-107-433-3349	Sequence 3349, Ap	332	28	59.6	158	2	US-09-107-532A-5873	Sequence 26, Appl
260	29	61.7	431	2	US-09-543-681A-6055	Sequence 6055, Ap	333	28	59.6	175	1	US-08-245-511-26	Sequence 26, Appl
261	29	61.7	441	2	US-09-134-000C-4782	Sequence 4782, Ap	334	28	59.6	175	1	US-08-600-933A-26	Sequence 30086, A
262	29	61.7	493	1	US-07-615-448A-7	Sequence 7, Appl	335	28	59.6	182	2	US-09-232-991A-30086	Sequence 2873, Ap
263	29	61.7	493	1	US-08-196-361-7	Sequence 7, Appl	336	28	59.6	208	2	US-09-134-001C-2873	Sequence 4449, Ap
264	29	61.7	493	1	US-08-446-934-7	Sequence 7, Appl	337	28	59.6	208	2	US-09-538-092-129	Sequence 129, App
265	29	61.7	493	1	US-08-448-128-7	Sequence 7, Appl	338	28	59.6	212	2	US-09-763-620-37	Sequence 37, Appl
266	29	61.7	493	1	US-08-948-703-7	Sequence 7, Appl	339	28	59.6	215	2	US-09-252-991A-21320	Sequence 21320, A
267	29	61.7	522	1	US-08-639-237-2	Sequence 2, Appl	340	28	59.6	222	2	US-09-252-991A-20338	Sequence 20338, A
268	29	61.7	522	1	US-08-975-405-2	Sequence 2, Appl	341	28	59.6	223	2	US-09-270-767-43313	Sequence 43313, A
269	29	61.7	522	1	US-09-489-039A-13077	Sequence 13077, A	342	28	59.6	231	2	US-09-270-767-44253	Sequence 44253, A
270	29	61.7	548	1	US-08-871-266B-17	Sequence 17, Appl	343	28	59.6	234	2	US-09-252-991A-26682	Sequence 26682, A
271	29	61.7	548	1	US-09-018-864A-17	Sequence 17, Appl	344	28	59.6	237	1	US-08-103-170-11	Sequence 11, Appl
272	29	61.7	548	1	US-08-871-267B-23	Sequence 23, Appl	345	28	59.6	248	2	US-09-710-279-2982	Sequence 2982, Ap
273	29	61.7	548	1	US-09-618-419-23	Sequence 23, Appl	346	28	59.6	256	2	US-09-270-767-33129	Sequence 33129, A
274	29	61.7	582	1	US-08-134-638-1	Sequence 1, Appl	347	28	59.6	256	2	US-09-270-767-48346	Sequence 48346, A
275	29	61.7	583	1	US-08-448-196A-6	Sequence 4, Appl	348	28	59.6	256	2	US-09-489-039A-12653	Sequence 12653, A
276	29	61.7	583	1	US-08-448-101-200	Sequence 6, Appl	349	28	59.6	257	2	US-09-583-110-3279	Sequence 3279, Ap
277	29	61.7	583	1	US-10-360-101-200	Sequence 200, App	350	28	59.6	261	2	US-09-107-433-4970	Sequence 4970, Ap
278	29	61.7	604	2	US-09-586-935-3	Sequence 3, Appl	351	28	59.6	261	2	US-09-902-540-14936	Sequence 14936, A
279	29	61.7	604	2	US-08-872-861-4	Sequence 4, Appl	352	28	59.6	280	2	US-09-555-510B-3	Sequence 3, Appl
280	29	61.7	604	2	US-10-045-170A-1	Sequence 15, Appl	353	28	59.6	280	2	US-10-231-013-3	Sequence 11020, A
281	29	61.7	625	1	US-08-365-981-15	Sequence 15, Appl	354	28	59.6	281	2	US-09-902-540-11020	Sequence 4, Appl
282	29	61.7	626	2	US-09-902-540-10385	Sequence 10385, A	355	28	59.6	284	4	PCT-US94-09752-4	Sequence 21684, A
283	29	61.7	676	2	US-09-518-550-42	Sequence 42, Appl	356	28	59.6	284	4	US-09-248-796A-21684	Sequence 77, Appl
284	29	61.7	677	2	US-08-480-640A-115	Sequence 115, App	357	28	59.6	288	2	US-08-484-905-77	Sequence 77, Appl
285	29	61.7	677	2	US-08-480-640A-193	Sequence 115, App	358	28	59.6	301	1	US-08-481-985B-77	Sequence 77, Appl
286	29	61.7	677	2	US-08-295-802-115	Sequence 115, App	359	28	59.6	301	2	US-08-370-476-77	Sequence 6398, Ap
287	29	61.7	677	2	US-08-686-968C-58	Sequence 58, App	360	28	59.6	301	2	US-09-328-352-6398	Sequence 10, Appl
288	29	61.7	677	2	US-08-686-968C-115	Sequence 115, App	361	28	59.6	315	1	US-08-118-270-10	Sequence 10, Appl
289	29	61.7	677	2	US-08-488-237A-193	Sequence 193, App	362	28	59.6	317	4	PCT-US93-08528-10	Sequence 6357, Ap
290	29	61.7	677	2	US-08-488-237A-193	Sequence 193, App	363	28	59.6	319	2	US-09-134-000C-6357	Sequence 10, Appl
291	29	61.7	677	2	US-08-375-992A-115	Sequence 115, App	364	28	59.6	319	2	US-09-413-231-10	Sequence 10, Appl
292	29	61.7	677	2	US-08-375-992A-193	Sequence 193, App	365	28	59.6	333	2	US-09-328-352-5838	Sequence 5838, Ap
293	29	61.7	677	2	US-08-472-679H-115	Sequence 115, App	366	28	59.6	342	2	US-09-543-681A-5131	Sequence 5131, Ap
294	29	61.7	677	2	US-08-472-679H-193	Sequence 193, App	367	28	59.6	342	2	US-09-543-681A-5131	Sequence 10092, A
295	29	61.7	694	2	US-09-270-767-36948	Sequence 36948, A	368	28	59.6	342	2	US-09-489-039A-14092	Sequence 6831, Ap
296	29	61.7	694	2	US-09-270-767-52165	Sequence 52165, A	369	28	59.6	345	2	US-09-252-991A-30214	Sequence 30214, A
297	29	61.7	717	2	US-09-543-681A-5706	Sequence 5706, Ap	370	28	59.6	345	2	US-09-328-352-6831	Sequence 14, Appl
298	29	61.7	722	2	US-09-252-991A-17407	Sequence 17407, A	371	28	59.6	345	2	US-09-828-525A-14	Sequence 14, Appl
299	29	61.7	722	2	US-09-518-550-29	Sequence 29, Appl	372	28	59.6	348	2	US-10-104-047-2676	Sequence 2676, Ap
300	29	61.7	726	2	US-09-252-991A-23738	Sequence 23738, A	373	28	59.6	351	2	US-09-107-433-3123	Sequence 3123, Ap
301	29	61.7	798	2	US-09-252-991A-17490	Sequence 17490, A	374	28	59.6	351	2	US-09-828-525A-2	Sequence 2, Appl
302	29	61.7	826	2	US-09-902-540-12490	Sequence 12490, A	375	28	59.6	365	1	US-08-515-251A-2	Sequence 74, Appl
303	29	61.7	832	2	US-09-252-991A-31572	Sequence 31572, A	376	28	59.6	370	2	US-09-107-433-3123	Sequence 3123, Ap
304	29	61.7	1206	2	US-09-252-991A-19632	Sequence 19632, A	377	28	59.6	381	2	US-09-676-475A-451	Sequence 451, App
305	29	61.7	1280	2	US-09-252-991A-18001	Sequence 18001, A	378	28	59.6	382	2	US-09-676-475A-451	Sequence 451, App
306	29	61.7	1874	2	US-09-331-403-2	Sequence 2, Appl	379	28	59.6	382	2	US-09-104-047-2016	Sequence 2016, Ap
307	29	61.7	2026	2	US-09-487-558B-86	Sequence 86, Appl	380	28	59.6	400	2	US-09-583-110-580	Sequence 5080, Ap
308	29	61.7	3491	1	US-07-642-734C-2	Sequence 2, Appl	381	28	59.6	400	2	US-09-258-754-450	Sequence 450, App
309	29	61.7	3491	1	US-08-439-009A-2	Sequence 2, Appl	382	28	59.6	410	2	US-09-258-754-451	Sequence 451, App
310	29	61.7	3491	2	US-09-679-279-13	Sequence 13, Appl	383	28	59.6	410	2	US-09-676-475A-451	Sequence 451, App
311	29	61.7	3546	2	US-09-543-681A-8308	Sequence 8308, Ap	384	28	59.6	410	2	US-09-676-475A-451	Sequence 451, App
312	28	59.6	605	2	US-09-352-991A-26408	Sequence 26408, A	385	28	59.6	414	2	US-09-605-700B-2292	Sequence 2292, Ap
313	28	59.6	71	2	US-10-781-294-8	Sequence 8, Appl	386	28	59.6	414	2	US-09-252-991A-24323	Sequence 24323, A
314	28	59.6	71	2	US-10-781-294-13	Sequence 13, Appl	387	28	59.6	416	2	US-09-248-796A-21977	Sequence 21977, A
315	28	59.6	74	2	US-09-248-796A-24674	Sequence 24674, A	388	28	59.6	417	2	US-09-489-039A-3154	Sequence 3154, Ap
316	28	59.6	76	2	US-09-248-796A-15627	Sequence 15627, A	389	28	59.6	425	2	US-09-134-001C-1143	Sequence 1143, Ap
317	28	59.6	81	2	US-10-781-294-26	Sequence 26, Appl	390	28	59.6	437	2	US-08-914-375C-65	Sequence 65, Appl
318	28	59.6	89	2	US-09-270-767-35724	Sequence 35724, A	391	28	59.6	448	1	US-08-074-121-3	Sequence 3, Appl
319	28	59.6	89	2	US-09-270-767-50941	Sequence 50941, A	392	28	59.6	448	1		

393	28	59.6	448	4	PCT-US94-06447-3	Sequence 3, Appli	466	28	59.6	1131	2	US-09-252-991A-31247	Sequence 31247, A
394	28	59.6	449	1	US-08-074-121-6	Sequence 6, Appli	467	28	59.6	1149	2	US-09-543-681A-7306	Sequence 7306, Ap
395	28	59.6	449	4	PCT-US94-06447-6	Sequence 6, Appli	468	28	59.6	1150	2	US-09-877-730-8	Sequence 8, Appli
396	28	59.6	465	2	US-09-252-991A-26980	Sequence 26980, A	469	28	59.6	1191	2	US-09-854-856-64	Sequence 64, Appl
397	28	59.6	466	1	US-08-194-338-11	Sequence 11, Appl	470	28	59.6	1911	2	US-10-010-720-64	Sequence 64, Appl
398	28	59.6	466	2	US-09-826-509-515	Sequence 515, Appl	471	28	59.6	1939	2	US-09-854-856-48	Sequence 48, Appl
399	28	59.6	467	2	US-09-543-681A-7427	Sequence 7427, Ap	472	28	59.6	1999	2	US-10-010-720-48	Sequence 48, Appl
400	28	59.6	468	2	US-09-902-540-12113	Sequence 12113, A	473	28	59.6	1971	2	US-09-854-856-32	Sequence 32, Appl
401	28	59.6	471	2	US-09-134-000C-3750	Sequence 3750, Ap	474	28	59.6	1971	2	US-10-010-720-16	Sequence 16, Appl
402	28	59.6	476	2	US-09-960-643-2	Sequence 2, Appli	475	28	59.6	1999	2	US-09-854-856-16	Sequence 16, Appl
403	28	59.6	479	2	US-09-270-767-40712	Sequence 40712, A	476	28	59.6	1999	2	US-10-010-720-10	Sequence 10, Appl
404	28	59.6	479	2	US-09-270-767-55928	Sequence 55928, A	477	28	59.6	2004	2	US-09-854-856-58	Sequence 58, Appl
405	28	59.6	481	2	US-09-489-039A-10515	Sequence 10515, A	478	28	59.6	2004	2	US-10-010-720-58	Sequence 58, Appl
406	28	59.6	486	2	US-09-489-039A-10978	Sequence 10978, A	479	28	59.6	2032	2	US-09-854-856-42	Sequence 42, Appl
407	28	59.6	496	2	US-09-252-991A-17049	Sequence 17049, A	480	28	59.6	2032	2	US-10-010-720-42	Sequence 42, Appl
408	28	59.6	521	1	US-08-915-003-7	Sequence 7, Appli	481	28	59.6	2048	2	US-09-854-856-62	Sequence 62, Appl
409	28	59.6	521	1	US-08-642-247-7	Sequence 11, Appli	482	28	59.6	2048	2	US-10-010-720-62	Sequence 62, Appl
410	28	59.6	526	2	US-09-902-540-11272	Sequence 11272, A	483	28	59.6	2064	2	US-09-854-856-26	Sequence 26, Appl
411	28	59.6	535	2	US-09-489-039A-7720	Sequence 7720, Ap	484	28	59.6	2064	2	US-10-010-720-26	Sequence 26, Appl
412	28	59.6	535	2	US-09-650-324A-62	Sequence 62, Appl	485	28	59.6	2076	2	US-09-854-856-46	Sequence 46, Appl
413	28	59.6	535	2	US-09-613-486-45	Sequence 45, Appl	486	28	59.6	2076	2	US-10-010-720-46	Sequence 46, Appl
414	28	59.6	539	2	US-10-039-112A-62	Sequence 62, Appl	487	28	59.6	2092	2	US-09-854-856-10	Sequence 10, Appl
415	28	59.6	539	1	US-08-464-340A-13	Sequence 13, Appl	488	28	59.6	2092	2	US-10-010-720-10	Sequence 10, Appl
416	28	59.6	543	2	US-09-877-730-26	Sequence 26, Appl	489	28	59.6	2108	2	US-09-854-856-30	Sequence 30, Appl
417	28	59.6	553	2	US-09-242-913B-13	Sequence 13, Appl	490	28	59.6	2108	2	US-10-010-720-30	Sequence 30, Appl
418	28	59.6	575	2	US-09-248-796A-20343	Sequence 20343, A	491	28	59.6	2136	2	US-09-854-856-14	Sequence 14, Appl
419	28	59.6	601	2	US-09-134-001C-3857	Sequence 3857, Ap	492	28	59.6	2136	2	US-10-010-720-14	Sequence 14, Appl
420	28	59.6	605	2	US-09-433-043B-123	Sequence 123, Ap	493	28	59.6	2141	2	US-09-854-856-56	Sequence 56, Appl
421	28	59.6	608	2	US-09-134-001C-3395	Sequence 3395, Ap	494	28	59.6	2141	2	US-10-010-720-56	Sequence 56, Appl
422	28	59.6	613	2	US-09-252-991A-28253	Sequence 28253, A	495	28	59.6	2157	2	US-09-854-856-52	Sequence 52, Appl
423	28	59.6	614	2	US-09-902-540-14372	Sequence 14372, A	496	28	59.6	2157	2	US-10-010-720-52	Sequence 52, Appl
424	28	59.6	615	2	US-09-248-796A-14606	Sequence 14606, A	497	28	59.6	2169	2	US-09-854-856-40	Sequence 40, Appl
425	28	59.6	616	2	US-09-248-796A-24217	Sequence 24217, A	498	28	59.6	2169	2	US-10-010-720-40	Sequence 40, Appl
426	28	59.6	624	2	US-09-877-730-24	Sequence 24, Appl	499	28	59.6	2179	2	US-09-949-016-8129	Sequence 8129, Ap
427	28	59.6	626	2	US-09-252-991A-30510	Sequence 30510, A	500	28	59.6	2185	2	US-09-854-856-36	Sequence 36, Appl
428	28	59.6	628	2	US-09-877-730-30	Sequence 30, Appl	501	28	59.6	2201	2	US-10-010-720-36	Sequence 36, Appl
429	28	59.6	629	2	US-09-252-991A-17513	Sequence 17513, A	502	28	59.6	2201	2	US-09-854-856-24	Sequence 24, Appl
430	28	59.6	636	2	US-09-489-039A-12090	Sequence 12090, A	503	28	59.6	2201	2	US-10-010-720-24	Sequence 24, Appl
431	28	59.6	658	2	US-10-216-556A-4	Sequence 4, Appli	504	28	59.6	2217	2	US-09-854-856-20	Sequence 20, Appl
432	28	59.6	662	2	US-09-107-532A-5989	Sequence 5989, Ap	505	28	59.6	2217	2	US-10-010-720-20	Sequence 20, Appl
433	28	59.6	666	2	US-09-134-001C-5465	Sequence 5465, Ap	506	28	59.6	2229	2	US-09-854-856-8	Sequence 8, Appli
434	28	59.6	666	2	US-09-543-681A-6770	Sequence 6770, Ap	507	28	59.6	2229	2	US-10-010-720-8	Sequence 8, Appli
435	28	59.6	670	2	US-09-252-991A-26867	Sequence 26867, A	508	28	59.6	2232	2	US-09-091-219-25	Sequence 25, Appl
436	28	59.6	690	2	US-09-902-540-10001	Sequence 10001, A	509	28	59.6	2232	2	US-09-660-541-25	Sequence 25, Appl
437	28	59.6	712	2	US-09-877-730-22	Sequence 22, Appl	510	28	59.6	2245	2	US-09-854-856-4	Sequence 4, Appli
438	28	59.6	726	2	US-09-949-016-6623	Sequence 6623, Ap	511	28	59.6	2245	2	US-10-010-720-4	Sequence 4, Appli
439	28	59.6	736	2	US-09-949-016-6855	Sequence 6855, Ap	512	28	59.6	2247	2	US-09-091-219-2	Sequence 2, Appli
440	28	59.6	742	2	US-09-949-016-10724	Sequence 10724, A	513	28	59.6	2247	2	US-09-660-541-2	Sequence 2, Appli
441	28	59.6	747	2	US-09-949-016-6821	Sequence 6821, Ap	514	28	59.6	2294	2	US-09-854-856-50	Sequence 50, Appl
442	28	59.6	764	2	US-09-949-016-9890	Sequence 9890, Ap	515	28	59.6	2294	2	US-10-010-720-50	Sequence 50, Appl
443	28	59.6	793	2	US-09-877-730-28	Sequence 28, Appl	516	28	59.6	2322	2	US-09-854-856-34	Sequence 34, Appl
444	28	59.6	826	2	US-09-877-730-16	Sequence 16, Appl	517	28	59.6	2322	2	US-10-010-720-34	Sequence 34, Appl
445	28	59.6	829	2	US-09-248-796A-20145	Sequence 20145, A	518	28	59.6	2334	2	US-09-854-856-18	Sequence 18, Appl
446	28	59.6	854	2	US-09-833-466-12	Sequence 12, Appl	519	28	59.6	2334	2	US-10-010-720-18	Sequence 18, Appl
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448	28	59.6	867	2	US-10-104-047-1052	Sequence 3052, Ap	521	28	59.6	2382	2	US-10-010-720-2	Sequence 2, Appli
449	28	59.6	893	2	US-09-707-121-2	Sequence 2, Appli	522	28	59.6	2763	2	US-08-496-944-2	Sequence 2, Appli
450	28	59.6	904	2	US-09-877-730-6	Sequence 6, Appli	523	28	59.6	3635	2	US-09-845-583A-2	Sequence 2, Appli
451	28	59.6	907	2	US-09-877-730-20	Sequence 20, Appl	524	28	59.6	3635	2	US-10-037-417-47	Sequence 47, Appl
452	28	59.6	985	2	US-09-877-730-10	Sequence 10, Appl	525	28	59.6	6239	2	US-10-037-182-4	Sequence 4, Appli
453	28	59.6	990	2	US-09-902-540-11765	Sequence 11765, A	526	28	59.6	6239	2	US-09-914-286-4	Sequence 4, Appli
454	28	59.6	991	2	US-09-877-730-12	Sequence 12, Appl	527	27	57.4	9	2	US-10-365-908-15	Sequence 15, Appl
455	28	59.6	1034	2	US-10-185-770A-18	Sequence 18, Appl	528	27	57.4	10	2	US-10-365-908-13	Sequence 13, Appl
456	28	59.6	1069	2	US-09-877-730-2	Sequence 2, Appli	529	27	57.4	13	2	US-08-663-272-2	Sequence 2, Appli
457	28	59.6	1072	2	US-09-877-730-18	Sequence 18, Appl	530	27	57.4	13	2	US-08-663-372-5	Sequence 5, Appli
458	28	59.6	1095	2	US-09-112-096-15	Sequence 15, Appl	531	27	57.4	20	1	US-08-484-530-47	Sequence 47, Appl
459	28	59.6	1095	2	US-09-636-215-778	Sequence 778, App	532	27	57.4	20	1	US-08-827-618A-47	Sequence 47, Appl
460	28	59.6	1095	2	US-09-668-165A-778	Sequence 778, App	533	27	57.4	20	2	US-08-483-952A-47	Sequence 47, Appl
461	28	59.6	1095	2	US-09-678-426-778	Sequence 778, App	534	27	57.4	20	2	US-08-955-925A-2	Sequence 2, Appli
462	28	59.6	1095	2	US-09-759-143-778	Sequence 778, App	535	27	57.4	20	2	US-08-973-782-1	Sequence 1, Appli
463	28	59.6	1095	2	US-09-651-236-778	Sequence 778, App	536	27	57.4	20	2	US-08-476-501-47	Sequence 47, Appl
464	28	59.6	1095	2	US-09-657-279-778	Sequence 778, App	537	27	57.4	20	4	PCT-US96-11374-1	Sequence 1, Appli
465	28	59.6	1095	2	US-10-012-896-778	Sequence 778, App	538	27	57.4	66	2	US-09-248-796A-25013	Sequence 25013, A

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541	27	57.4	83	2	US-09-248-796A-22174	Sequence 22174, A	614	27	57.4	282	2	US-09-248-796A-22527	Sequence 25927, A
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543	27	57.4	87	2	US-09-270-767-22832	Sequence 22832, A	616	27	57.4	284	2	US-09-134-000C-5495	Sequence 5495, Ap
544	27	57.4	87	2	US-09-270-767-48049	Sequence 48049, A	617	27	57.4	289	2	US-09-248-796A-17478	Sequence 17478, A
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546	27	57.4	96	2	US-09-248-796A-24481	Sequence 24481, A	619	27	57.4	292	2	US-09-620-461-19	Sequence 19, App1
547	27	57.4	98	1	US-08-479-078-7	Sequence 7, App1	620	27	57.4	293	2	US-09-543-681A-5949	Sequence 5949, Ap
548	27	57.4	103	2	US-09-134-001C-5138	Sequence 5138, Ap	621	27	57.4	302	2	US-09-438-185A-457	Sequence 457, App
549	27	57.4	106	2	US-08-905-223-413	Sequence 413, App	622	27	57.4	303	2	US-09-902-540-14250	Sequence 14250, A
550	27	57.4	112	2	US-09-270-767-59183	Sequence 59183, A	623	27	57.4	304	2	US-09-252-991A-25704	Sequence 25704, A
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552	27	57.4	119	2	US-09-621-976-3996	Sequence 3996, Ap	625	27	57.4	313	2	US-09-605-703B-62	Sequence 62, App1
553	27	57.4	127	2	US-09-902-540-12481	Sequence 12481, A	626	27	57.4	318	2	US-09-328-352-1247	Sequence 12, App1
554	27	57.4	133	2	US-09-252-991A-23872	Sequence 23872, A	627	27	57.4	319	2	US-09-910-174B-12	Sequence 12, App1
555	27	57.4	135	2	US-09-270-767-35891	Sequence 35891, A	628	27	57.4	319	2	US-09-620-461-12	Sequence 12, App1
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559	27	57.4	160	2	US-09-248-796A-26522	Sequence 26522, A	632	27	57.4	324	2	US-09-270-767-42635	Sequence 42635, A
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561	27	57.4	165	2	US-09-519-232-58	Sequence 58, App1	634	27	57.4	335	2	US-09-949-016-6780	Sequence 6780, Ap
562	27	57.4	176	2	US-09-248-796A-14777	Sequence 14777, A	635	27	57.4	338	1	US-09-047-026A-2	Sequence 4661, Ap
563	27	57.4	179	2	US-09-328-352-6376	Sequence 6376, Ap	636	27	57.4	340	2	US-09-047-026A-2	Sequence 2, App1
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565	27	57.4	186	2	US-09-123-443-10	Sequence 10, App1	638	27	57.4	341	2	US-09-580-929-3	Sequence 3, App1
566	27	57.4	186	2	US-09-558-089-10	Sequence 10, App1	639	27	57.4	342	1	US-08-724-394A-6	Sequence 6, App1
567	27	57.4	186	2	US-09-558-087-10	Sequence 10, App1	640	27	57.4	342	2	US-09-270-767-32874	Sequence 32874, A
568	27	57.4	186	2	US-09-558-474-10	Sequence 10, App1	641	27	57.4	344	2	US-09-902-540-16277	Sequence 16277, A
569	27	57.4	187	2	US-09-134-001C-2866	Sequence 2866, Ap	642	27	57.4	345	2	US-09-543-681A-6836	Sequence 6836, Ap
570	27	57.4	191	2	US-08-745-404-4	Sequence 4, App1	643	27	57.4	350	2	US-09-651-200-25	Sequence 25, App1
571	27	57.4	196	2	US-09-247-155-163	Sequence 163, App	644	27	57.4	350	2	US-09-910-174B-17	Sequence 17, App1
572	27	57.4	196	2	US-09-903-190-163	Sequence 163, App	645	27	57.4	352	2	US-09-620-461-14	Sequence 14, App1
573	27	57.4	197	2	US-09-328-352-5000	Sequence 5000, Ap	646	27	57.4	352	2	US-09-580-929-2	Sequence 2, App1
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578	27	57.4	205	1	US-08-852-809-5	Sequence 5, App1	651	27	57.4	357	2	US-09-910-174B-14	Sequence 14, App1
579	27	57.4	205	2	US-09-107-532A-5214	Sequence 5214, Ap	652	27	57.4	357	2	US-09-620-461-14	Sequence 14, App1
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582	27	57.4	222	2	US-09-439-313-479	Sequence 479, App	655	27	57.4	376	1	US-09-204-764-5	Sequence 5, App1
583	27	57.4	222	2	US-09-636-215-479	Sequence 479, App	656	27	57.4	376	2	US-09-575-602-4	Sequence 4, App1
584	27	57.4	222	2	US-09-685-166A-479	Sequence 479, App	657	27	57.4	383	2	US-09-032-086-4	Sequence 4, App1
585	27	57.4	222	2	US-09-679-425-479	Sequence 479, App	658	27	57.4	383	2	US-10-104-047-3932	Sequence 3932, Ap
586	27	57.4	222	2	US-09-759-143-479	Sequence 479, App	659	27	57.4	388	2	US-09-252-991A-22751	Sequence 22751, A
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589	27	57.4	222	2	US-09-657-279-479	Sequence 479, App	662	27	57.4	399	2	US-09-270-767-47856	Sequence 47856, A
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591	27	57.4	224	2	US-09-543-681A-6654	Sequence 6654, Ap	664	27	57.4	411	2	US-09-134-000C-3961	Sequence 3961, App
592	27	57.4	228	2	US-10-051-325-8	Sequence 8, App1	665	27	57.4	422	4	PCT-US91-01360-2	Sequence 2, App1
593	27	57.4	228	2	US-09-991-181-373	Sequence 373, App	666	27	57.4	426	2	US-09-252-991A-32191	Sequence 32191, A
594	27	57.4	229	2	US-09-990-444-373	Sequence 373, App	667	27	57.4	426	2	US-09-543-681A-5231	Sequence 5231, Ap
595	27	57.4	229	2	US-09-997-333-373	Sequence 373, App	668	27	57.4	427	2	US-09-492-709A-12164	Sequence 12164, A
596	27	57.4	229	2	US-09-992-598-373	Sequence 598, Ap	669	27	57.4	441	2	US-09-489-039A-12164	Sequence 12164, A
597	27	57.4	229	2	US-09-949-016-8575	Sequence 8575, Ap	670	27	57.4	441	2	US-09-248-796A-17497	Sequence 17497, A
598	27	57.4	232	2	US-09-949-016-8575	Sequence 8575, Ap	671	27	57.4	452	2	US-09-248-796A-17497	Sequence 17497, A
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601	27	57.4	233	2	US-09-902-540-15733	Sequence 15733, A	674	27	57.4	461	2	US-09-902-540-16734	Sequence 16734, A
602	27	57.4	236	2	US-09-602-848-2	Sequence 2, App1	675	27	57.4	466	2	US-09-248-796A-16346	Sequence 16346, A
603	27	57.4	236	2	US-09-248-796A-14505	Sequence 14505, A	676	27	57.4	481	2	US-09-673-395A-277	Sequence 277, App
604	27	57.4	245	2	US-09-248-796A-21183	Sequence 21183, A	677	27	57.4	489	2	US-09-538-092-699	Sequence 699, App
605	27	57.4	250	2	US-09-270-767-43784	Sequence 43784, A	678	27	57.4	490	1	US-08-294-770A-2	Sequence 2, App1
606	27	57.4	251	2	US-09-091-725-21	Sequence 21, App1	679	27	57.4	491	1	US-08-448-735C-2	Sequence 2, App1
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611	27	57.4	271	2	US-09-231-258-4	Sequence 4, App1	684	27	57.4				

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691	27	57.4	516	1	US-08-762-106-8	Sequence 8, Appl	764	27	57.4	837	2	US-09-012-710-12	Sequence 12, Appl
692	27	57.4	516	2	US-08-745-404-2	Sequence 2, Appl	765	27	57.4	837	2	US-09-556-273-12	Sequence 12, Appl
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737	27	57.4	636	2	US-09-564-805-237	Sequence 237, App	810	27	57.4	1530	2	US-09-598-419-178	Sequence 178, App
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886	26	55.3	25	2	US-08-483-931B-31	Sequence 31, Appli	959	26	55.3	172	2	US-09-732-210-1676	Sequence 1676, Ap
887	26	55.3	25	2	US-09-305-258-678	Sequence 678, App	960	26	55.3	178	2	US-09-248-796A-15752	Sequence 14086, A
888	26	55.3	28	2	US-10-004-860-678	Sequence 678, App	961	26	55.3	178	2	US-09-248-796A-14727	Sequence 14727, A
889	26	55.3	30	1	US-08-934-915-15	Sequence 15, Appli	962	26	55.3	178	2	US-09-328-352-4542	Sequence 4542, Ap
890	26	55.3	30	1	US-08-934-915-15	Sequence 15, Appli	963	26	55.3	178	2	US-09-328-352-4542	Sequence 4542, Ap
891	26	55.3	30	1	US-08-934-915-15	Sequence 15, Appli	964	26	55.3	184	2	US-09-976-451-3	Sequence 3, Appli
892	26	55.3	36	2	US-08-701-382-11	Sequence 11, Appli	965	26	55.3	184	2	US-09-902-540-15012	Sequence 15012, A
893	26	55.3	36	2	US-09-028-937-37	Sequence 37, Appli	966	26	55.3	184	2	US-10-104-047-2391	Sequence 2391, Ap
894	26	55.3	36	2	US-08-788-820-11	Sequence 11, Appli	967	26	55.3	187	2	US-09-134-000C-4869	Sequence 4869, Ap
895	26	55.3	42	2	US-08-956-307B-1	Sequence 1, Appli	968	26	55.3	187	2	US-09-134-000C-4869	Sequence 18716, A
896	26	55.3	54	2	US-09-270-767-57888	Sequence 57888, A	969	26	55.3	188	2	US-09-252-991A-18716	Sequence 14010, A
897	26	55.3	54	2	US-09-583-110-3758	Sequence 3758, Ap	970	26	55.3	196	2	US-09-489-039A-14010	Sequence 57435, A
898	26	55.3	65	2	US-09-107-433-3304	Sequence 3304, Ap	971	26	55.3	196	2	US-09-270-767-57435	Sequence 57435, A
899	26	55.3	72	2	US-09-270-767-36206	Sequence 36206, A	972	26	55.3	196	2	US-09-492-709A-376	Sequence 376, Appli
900	26	55.3	72	2	US-09-270-767-51423	Sequence 51423, A	973	26	55.3	197	2	US-09-370-477-12	Sequence 12, Appli
901	26	55.3	73	2	US-09-270-767-60709	Sequence 60709, A	974	26	55.3	197	2	US-09-370-477-12	Sequence 2340, Ap
902	26	55.3	75	2	US-09-270-767-33396	Sequence 33396, A	975	26	55.3	209	2	US-09-543-681A-4628	Sequence 4628, Ap
903	26	55.3	75	2	US-09-270-767-37423	Sequence 37423, A	976	26	55.3	211	2	US-09-270-767-60547	Sequence 60547, A

977 26 55.3 216 2 US-09-543-681A-6742
 978 26 55.3 217 2 US-09-902-540-11656
 979 26 55.3 222 1 US-08-446-875-14
 980 26 55.3 223 2 US-09-602-767A-340
 981 26 55.3 224 2 US-09-125-642C-16
 982 26 55.3 225 2 US-09-252-991A-29348
 983 26 55.3 227 2 US-09-904-615-126
 984 26 55.3 227 2 US-10-054-988-126
 985 26 55.3 229 2 US-09-902-540-16241
 986 26 55.3 231 2 US-09-107-433-3300
 987 26 55.3 237 2 US-09-134-001C-3057
 988 26 55.3 239 2 US-09-328-352-5274
 989 26 55.3 247 2 US-08-800-682-5
 990 26 55.3 248 2 US-09-107-532A-6427
 991 26 55.3 252 2 US-09-489-039A-14019
 992 26 55.3 254 1 US-08-799-464A-5
 993 26 55.3 254 2 US-08-686-968C-7
 994 26 55.3 254 2 US-08-478-316-17
 995 26 55.3 254 2 US-08-478-316-18
 996 26 55.3 254 2 US-08-478-316-20
 997 26 55.3 254 2 US-08-478-316-22
 998 26 55.3 254 2 US-09-019-793A-17
 999 26 55.3 254 2 US-09-019-793A-18
 1000 26 55.3 254 2 US-09-019-793A-20

ALIGNMENTS

RESULT 1
 US-08-159-339A-217
 : Sequence 217, Application US/08159339A
 : Patent No. 6037135
 : GENERAL INFORMATION:
 : APPLICANT: Kubo, Ralph T.
 : APPLICANT: Grey, Howard M.
 : APPLICANT: Sette, Alessandro
 : APPLICANT: Celis, Esben
 : TITLE OF INVENTION: HLA Binding peptides and Their
 : TITLE OF INVENTION: Uses
 : NUMBER OF SEQUENCES: 1254
 : CORRESPONDENCE ADDRESSES:
 : ADDRESSEE: Townsend and Townsend and Crew LLP
 : STREET: Two Embarcadero Center, Eighth Floor
 : CITY: San Francisco
 : STATE: CA
 : COUNTRY: USA
 : ZIP: 94111-3634
 : COMPUTER READABLE FORM:
 : MEDIUM TYPE: Diskette
 : OPERATING SYSTEM: DOS
 : SOFTWARE: FastSeq for Windows Version 2.0
 : CURRENT APPLICATION DATA:
 : APPLICATION NUMBER: US/08/159,339A
 : FILING DATE: 29-NOV-1993
 : CLASSIFICATION: 424
 : PRIOR APPLICATION DATA:
 : APPLICATION NUMBER: US 07/926,666
 : FILING DATE: 07-AUG-1992
 : APPLICATION NUMBER: US 08/027,746
 : FILING DATE: 05-MAR-1993
 : APPLICATION NUMBER: US 08/103,396
 : FILING DATE: 06-AUG-1993
 : ATTORNEY/AGENT INFORMATION:
 : NAME: Weber, Ellen Lauver
 : REGISTRATION NUMBER: 32,762
 : REFERENCE/DOCKET NUMBER: 018623-005030US
 : TELECOMMUNICATION INFORMATION:
 : TELEPHONE: (415) 576-0200
 : TELEFAX: (415) 576-0300
 : TELEX:
 : INFORMATION FOR SEQ ID NO: 217:

Sequence 6742, Ap
 Sequence 11656, A
 Sequence 14, Appl
 Sequence 340, App
 Sequence 16, Appl
 Sequence 29348, A
 Sequence 126, App
 Sequence 16241, A
 Sequence 3300, Ap
 Sequence 3057, Ap
 Sequence 5274, Ap
 Sequence 5, Appl
 Sequence 6427, Ap
 Sequence 14019, A
 Sequence 5, Appl
 Sequence 7, Appl
 Sequence 17, Appl
 Sequence 18, Appl
 Sequence 20, Appl
 Sequence 22, Appl
 Sequence 17, Appl
 Sequence 18, Appl
 Sequence 20, Appl

SEQUENCE CHARACTERISTICS:
 : LENGTH: 9 amino acids
 : TYPE: amino acid
 : STRANDEDNESS: single
 : TOPOLOGY: linear
 : MOLECULE TYPE: peptide
 : US-08-159-339A-217

Query Match 100.0%; Score 47; DB 2; Length 9;
 Best Local Similarity 100.0%; Pred. No. 4.6e+05;
 Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Cy 1 HVDIRTLED 9
 Db 1 HVDIRTLED 9

RESULT 2

US-10-365-908-43
 : Sequence 43, Application US/10365908
 : Patent No. 6797491
 : GENERAL INFORMATION:
 : APPLICANT: Neeffe, John R.
 : APPLICANT: Boux, Leslie J.
 : APPLICANT: Minnett, Mark T.
 : APPLICANT: Goldstone, Stephen E.
 : APPLICANT: Siegel, Marvin
 : TITLE OF INVENTION: HUMAN PAPILLOMA VIRUS TREATMENT
 : FILE REFERENCE: 12071-003001
 : CURRENT APPLICATION NUMBER: US/10/365,908
 : PRIOR FILING DATE: 2003-02-13
 : PRIOR APPLICATION NUMBER: US/09/891,823
 : PRIOR FILING DATE: 2001-10-19
 : PRIOR APPLICATION NUMBER: US 60/214,202
 : PRIOR FILING DATE: 2000-06-26
 : NUMBER OF SEQ ID NOS: 140
 : SOFTWARE: FastSeq for Windows Version 4.0
 : SEQ ID NO 43
 : LENGTH: 10
 : TYPE: PRT
 : ORGANISM: Human papilloma virus
 : US-10-365-908-43
 : Query Match 100.0%; Score 47; DB 2; Length 10;
 : Best Local Similarity 100.0%; Pred. No. 0.0056;
 : Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 : Cy 1 HVDIRTLED 9
 : Db 1 HVDIRTLED 9
 : RESULT 3
 : US-08-075-541D-49
 : Sequence 49, Application US/08075541D
 : Patent No. 6183745
 : GENERAL INFORMATION:
 : APPLICANT: TINDLE, ROBERT
 : APPLICANT: FERNANDO, GERMAIN
 : APPLICANT: FRAZER, IAN
 : TITLE OF INVENTION: SUBUNIT PAPILLOMA VIRUS VACCINE AND
 : TITLE OF INVENTION: PEPTIDES FOR USE THEREIN
 : NUMBER OF SEQUENCES: 56
 : CORRESPONDENCE ADDRESSES:
 : ADDRESSEE: PANITCH SCHWARZ JACOBS & NADEL, P. C.
 : STREET: 1601 MARKET STREET, 36TH FLOOR
 : CITY: PHILADELPHIA
 : STATE: PENNSYLVANIA
 : COUNTRY: USA
 : ZIP: 19103-2398
 : COMPUTER READABLE FORM:
 : MEDIUM TYPE: Floppy disk
 : COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/075,541D
FILING DATE: 10-JUN-1993
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: AU pk 3876
FILING DATE: 12-DEC-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: pct/au91/00575
FILING DATE: 12-DEC-1991
ATTORNEY/AGENT INFORMATION:
NAME: NADEL, ALAN S
REGISTRATION NUMBER: 27,363
REFERENCE/DOCKET NUMBER: 8795-4
TELECOMMUNICATION INFORMATION:
TELEPHONE: 215-567-2020
TELEFAX: 215-567-2991
INFORMATION FOR SEQ ID NO: 49:
SEQUENCE CHARACTERISTICS:
LENGTH: 20 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-08-075-541D-49

Query Match 100.0%; Score 47; DB 2; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.012;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 HVDIRTTLED 9
Db 4 HVDIRTTLED 12

RESULT 4
US-09-980-177A-75
Sequence 75, Application US/09980177A
Patent No. 6838084
GENERAL INFORMATION:
APPLICANT: Jochims, Ingrid
APPLICANT: Nielsen, John
TITLE OF INVENTION: Cytotoxic T-Cell Epitopes of the
TITLE OF INVENTION: Papilloma Virus L1-Protein and Use Thereof in Diagnosis and
TITLE OF INVENTION: Therapy
FILE REFERENCE: 50125/036001
CURRENT APPLICATION NUMBER: US/09/980,177A
PRIOR FILING DATE: 2001-11-29
PRIOR APPLICATION NUMBER: PCT/EP00/05006
PRIOR FILING DATE: 2000-05-31
PRIOR APPLICATION NUMBER: DE 19925199.1
PRIOR FILING DATE: 1999-06-01
NUMBER OF SEQ ID NOS: 77
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 75
LENGTH: 20
TYPE: PRT
ORGANISM: Human papillomavirus type 16
US-09-980-177A-75

Query Match 100.0%; Score 47; DB 2; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.012;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 HVDIRTTLED 9
Db 7 HVDIRTTLED 15

RESULT 5
US-08-934-915-49

Sequence 49, Application US/08934915
Patent No. 5932412
GENERAL INFORMATION:
APPLICANT: DILLNER, JOAKIM
APPLICANT: DILLNER, LENA
APPLICANT: CHENG, HWEI-MING
TITLE OF INVENTION: SYNTHETIC PEPTIDES OF HUMAN
TITLE OF INVENTION: PAPILLOMAVIRUS 1, 5, 6, 8,
TITLE OF INVENTION: 11, 16, 18, 31, 33 AND 56,
TITLE OF INVENTION: USEFUL IN IMMUNOASSAY FOR
TITLE OF INVENTION: DIAGNOSTIC PURPOSES
NUMBER OF SEQUENCES: 193
CORRESPONDENCE ADDRESS:
ADDRESSEE: MASON & ASSOCIATES, P.A.
STREET: 1757 U.S. HWY. 19 NORTH, SUITE 500
CITY: CLEARWATER
STATE: FLORIDA
COUNTRY: U.S.A.
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: Windows 3.0
SOFTWARE: Microsoft Word 6.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/934,915
FILING DATE: 22-SEP-1997
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/949,836
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: LOUISE A. Foulch
REGISTRATION NUMBER: 37,133
REFERENCE/DOCKET NUMBER: 1946.6
TELECOMMUNICATION INFORMATION:
TELEPHONE: 813-538-3800
TELEFAX: 813-538-3820
TELEX:
INFORMATION FOR SEQ ID NO: 49:
SEQUENCE CHARACTERISTICS:
LENGTH: 21 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-08-934-915-49

Query Match 100.0%; Score 47; DB 1; Length 21;
Best Local Similarity 100.0%; Pred. No. 0.013;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 HVDIRTTLED 9
Db 12 HVDIRTTLED 20

RESULT 6
US-08-075-541D-40
Sequence 40, Application US/08075541D
Patent No. 6183745
GENERAL INFORMATION:
APPLICANT: TINDLE, ROBERT
APPLICANT: FERNANDO, GERMAIN
APPLICANT: FRAZER, IAN
TITLE OF INVENTION: SUBUNIT PAPILLOMA VIRUS VACCINE AND
TITLE OF INVENTION: PEPTIDES FOR USE THEREIN
NUMBER OF SEQUENCES: 56
CORRESPONDENCE ADDRESS:
ADDRESSEE: PANITCH SCHWARTZ JACOBS & NADEL, P.C.
STREET: 1601 MARKET STREET, 36TH FLOOR
CITY: PHILADELPHIA
STATE: PENNSYLVANIA
COUNTRY: USA
ZIP: 19103-2398

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/075,541D
FILING DATE: 10-JUN-1993
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: AU pk 3876
FILING DATE: 12-DEC-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: pcc/au91/00575
FILING DATE: 12-DEC-1991
ATTORNEY/AGENT INFORMATION:
NAME: NADEL, ALAN S
REGISTRATION NUMBER: 27,363
REFERENCE/DOCKET NUMBER: 8795-4
TELECOMMUNICATION INFORMATION:
TELEPHONE: 215-567-2020
TELEFAX: 215-567-2991
INFORMATION FOR SEQ ID NO: 40:
SEQUENCE CHARACTERISTICS:
LENGTH: 26 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-08-075-541D-40

Query Match 100.0%; Score 47; DB 2; Length 26;
Best Local Similarity 100.0%; Pred. No. 0.016;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 HVDIRTLIED 9
|||
Db 2 HVDIRTLIED 10

RESULT 7
US-09-486-394-5
Sequence 5, Application US/09486394
Patent No. 6478749
GENERAL INFORMATION:
APPLICANT: Hopfl, Reinhard
TITLE OF INVENTION: Diagnostic Kit for Skin Tests, and Method
FILE REFERENCE: 032929-001
CURRENT APPLICATION NUMBER: US/09/486,394
CURRENT FILING DATE: 2000-06-20
PRIOR APPLICATION NUMBER: PCT/EP98/04773
PRIOR FILING DATE: 1998-07-30
PRIOR APPLICATION NUMBER: DE 197 37 409.3
PRIOR FILING DATE: 1997-08-27
NUMBER OF SEQ ID NOS: 6
SOFTWARE: Patentin version 3.1
SEQ ID NO 5
LENGTH: 28
TYPE: PRT
ORGANISM: Human papillomavirus type 16
FEATURE:
NAME/KEY: PEPTIDE
LOCATION: (1)..(28)
OTHER INFORMATION: E7 peptide.
US-09-486-394-5

Query Match 100.0%; Score 47; DB 2; Length 28;
Best Local Similarity 100.0%; Pred. No. 0.018;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1 HVDIRTLIED 9
|||
Db 3 HVDIRTLIED 11

RESULT 8
US-08-934-915-53
Sequence 53, Application US/08934915
Patent No. 5932412
GENERAL INFORMATION:
APPLICANT: DILLNER, JOAKIM
APPLICANT: DILLNER, LENA
APPLICANT: CHENG, HWEI-MING
TITLE OF INVENTION: SYNTHETIC PEPTIDES OF HUMAN
TITLE OF INVENTION: PAPILLOMAVIRUS 1, 5, 6, 8,
TITLE OF INVENTION: 11, 16, 18, 31, 33 AND 56,
TITLE OF INVENTION: USEFUL IN IMMUNOASSAY FOR
TITLE OF INVENTION: DIAGNOSTIC PURPOSES
NUMBER OF SEQUENCES: 193
CORRESPONDENCE ADDRESS:
ADDRESSEE: MASON & ASSOCIATES, P.A.
STREET: 17757 U.S. HWY. 19 NORTH, SUITE 500
CITY: CLEARWATER
STATE: FLORIDA
COUNTRY: U.S.A.
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: Windows 3.0
SOFTWARE: Microsoft word 6.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/934,915
FILING DATE: 22-SEP-1997
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/949,836
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: LOUISE A. Foutch
REGISTRATION NUMBER: 37,133
REFERENCE/DOCKET NUMBER: 1946.6
TELECOMMUNICATION INFORMATION:
TELEPHONE: 813-538-3800
TELEFAX: 813-538-3820
TELEX:
INFORMATION FOR SEQ ID NO: 53:
SEQUENCE CHARACTERISTICS:
LENGTH: 30 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-08-934-915-53

Query Match 100.0%; Score 47; DB 1; Length 30;
Best Local Similarity 100.0%; Pred. No. 0.019;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 HVDIRTLIED 9
|||
Db 16 HVDIRTLIED 24

RESULT 9
US-08-934-915-54
Sequence 54, Application US/08934915
Patent No. 5932412
GENERAL INFORMATION:
APPLICANT: DILLNER, JOAKIM
APPLICANT: DILLNER, LENA
APPLICANT: CHENG, HWEI-MING
TITLE OF INVENTION: SYNTHETIC PEPTIDES OF HUMAN
TITLE OF INVENTION: PAPILLOMAVIRUS 1, 5, 6, 8,
TITLE OF INVENTION: 11, 16, 18, 31, 33 AND 56,
TITLE OF INVENTION: USEFUL IN IMMUNOASSAY FOR
TITLE OF INVENTION: DIAGNOSTIC PURPOSES
NUMBER OF SEQUENCES: 193

;; CORRESPONDENCE ADDRESS:
;; ADDRESSEE: MASON & ASSOCIATES, P.A.
;; STREET: 17757 U.S. HWY. 19 NORTH, SUITE 500
;; CITY: CLEARWATER
;; STATE: FLORIDA
;; COUNTRY: U.S.A.
;; COMPUTER READABLE FORM:
;; MEDIUM TYPE: Floppy disk
;; COMPUTER: IBM PC compatible
;; OPERATING SYSTEM: Windows 3.0
;; SOFTWARE: Microsoft Word 6.0
;; CURRENT APPLICATION DATA:
;; APPLICATION NUMBER: US/08/934,915
;; FILING DATE: 22-SEP-1997
;; CLASSIFICATION: 435
;; PRIOR APPLICATION DATA:
;; APPLICATION NUMBER: 07/949,836
;; FILING DATE:
;; ATTORNEY/AGENT INFORMATION:
;; NAME: LOUISE A. Foulch
;; REGISTRATION NUMBER: 37,133
;; REFERENCE/DOCKET NUMBER: 1946.6
;; TELECOMMUNICATION INFORMATION:
;; TELEPHONE: 813-538-3800
;; TELEFAX: 813-538-3820
;; TELEX:
;; INFORMATION FOR SEQ ID NO: 54:
;; SEQUENCE CHARACTERISTICS:
;; LENGTH: 30 amino acids
;; TYPE: amino acid
;; TOPOLOGY: linear
;; MOLECULE TYPE: peptide
;; US-08-934-915-54

Query Match 100.0%; Score 47; DB 1; Length 30;
Best Local Similarity 100.0%; Pred. No. 0.019;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1 HVDIRTLED 9
Db 5 HVDIRTLED 13

RESULT 10
US-09-486-394-4
; Sequence 4, Application US/09486394
; Patent No. 6478749
; GENERAL INFORMATION:
; APPLICANT: Hopfl, Reinhard
; TITLE OF INVENTION: Diagnostic Kit for Skin Tests, and Method
; FILE REFERENCE: 032929-001
; CURRENT APPLICATION NUMBER: US/09/486,394
; CURRENT FILING DATE: 2000-06-20
; PRIOR APPLICATION NUMBER: PCT/EP98/04773
; PRIOR FILING DATE: 1998-07-30
; PRIOR APPLICATION NUMBER: DE 197 37 409.3
; PRIOR FILING DATE: 1997-08-27
; NUMBER OF SEQ ID NOS: 6
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 4
; LENGTH: 30
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
; FEATURE:
; NAME/KEY: PEPTIDE
; LOCATION: (1)..(30)
; OTHER INFORMATION: E7 peptide.
US-09-486-394-4

Query Match 100.0%; Score 47; DB 2; Length 30;
Best Local Similarity 100.0%; Pred. No. 0.019;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 HVDIRTLED 9
Db 13 HVDIRTLED 21

RESULT 11
US-08-406-248-6
; Sequence 6, Application US/08406248
; Patent No. 5736318
; GENERAL INFORMATION:
; APPLICANT: Munger, Karl
; APPLICANT: Jones, D. Leanne
; TITLE OF INVENTION: METHOD AND KIT FOR EVALUATING
; TITLE OF INVENTION: TRANSFORMED CELLS
; NUMBER OF SEQUENCES: 6
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Ann-Louise Kerner, Ph.D., Lappin & Kusner
; STREET: 200 State Street
; CITY: Boston
; STATE: MA
; COUNTRY: USA
; ZIP: 02109
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/406,248
; FILING DATE:
; CLASSIFICATION: 436
; ATTORNEY/AGENT INFORMATION:
; NAME: McDaniels, Patricia A.
; REGISTRATION NUMBER: 33,194
; REFERENCE/DOCKET NUMBER: HAZ-011
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 617-330-1300
; TELEFAX: 617-330-1311
; INFORMATION FOR SEQ ID NO: 6:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 98 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-406-248-6

Query Match 100.0%; Score 47; DB 1; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.07;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 HVDIRTLED 9
Db 73 HVDIRTLED 81

RESULT 12
US-08-075-541D-42
; Sequence 42, Application US/08075541D
; Patent No. 6183745
; GENERAL INFORMATION:
; APPLICANT: TINDLE, ROBERT
; APPLICANT: FERNANDO, GERMAIN
; APPLICANT: FRAZER, IAN
; TITLE OF INVENTION: SUBUNIT PAPILLOMA VIRUS VACCINE AND
; TITLE OF INVENTION: PEPTIDES FOR USE THEREIN
; NUMBER OF SEQUENCES: 56
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: PANITCH SCHWARTZ JACOBS & NADEL, P.C.
; STREET: 1601 MARKET STREET, 36TH FLOOR
; CITY: PHILADELPHIA
; STATE: PENNSYLVANIA
; COUNTRY: USA
; ZIP: 19103-2398

```
COMPUTER READABLE FORM:
;
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/075,541D
; FILING DATE: 10-JUN-1993
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: AU pk 3876
; FILING DATE: 12-DEC-1990
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: pcc/au91/00575
; FILING DATE: 12-DEC-1991
; ATTORNEY/AGENT INFORMATION:
; NAME: NADEL, ALAN S
; REGISTRATION NUMBER: 27,363
; REFERENCE/DOCKET NUMBER: 8795-4
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 215-567-2020
; TELEFAX: 215-567-2991
; INFORMATION FOR SEQ ID NO: 42:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 98 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
;
; US-08-075-541D-42
```

```
Query Match          100.0%; Score 47; DB 2; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.07;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
OY      1 HVDIRTTLED 9
        |||||||
Db       73 HVDIRTTLED 81
```

```
RESULT 13
US-09-382-616A-1
; Sequence 1, Application US/09382616A
; Patent No. 6200746
; GENERAL INFORMATION:
; APPLICANT: Fisher, Christopher
; APPLICANT: He, Manxia
; TITLE OF INVENTION: Methods to Identify Anti-Viral Agents
; FILE REFERENCE: 28341/6216
; CURRENT APPLICATION NUMBER: US/09/382,616A
; PRIOR FILING DATE: 1999-08-25
; PRIOR APPLICATION NUMBER: 09/382,616
; NUMBER OF SEQ ID NOS: 43
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 1
; LENGTH: 98
; TYPE: PRT
; ORGANISM: Papillomavirus sv1v1agi
;
; US-09-382-616A-1
```

```
Query Match          100.0%; Score 47; DB 2; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.07;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
OY      1 HVDIRTTLED 9
        |||||||
Db       73 HVDIRTTLED 81
```

```
RESULT 14
US-08-944-368A-4
; Sequence 4, Application US/08944368A
```

```
; Patent No. 6228368
; GENERAL INFORMATION:
; APPLICANT: Giesman, et al.
; TITLE OF INVENTION: Papilloma Virus Capsomere Vaccine
; TITLE OF INVENTION: Formulations and Methods of Use
; NUMBER OF SEQUENCES: 28
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Marshall, O'Toole, Gerstein, Murray &
; ADDRESSEE: Borun
; STREET: 233 South Wacker Drive, 6300 Sears Tower
; CITY: Chicago
; STATE: Illinois
; COUNTRY: United States of America
; ZIP: 60606-6402
;
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/944,368A
; FILING DATE:
; CLASSIFICATION: 424
; ATTORNEY/AGENT INFORMATION:
; NAME: Williams Jr., Joseph A.
; REGISTRATION NUMBER: 38,659
; REFERENCE/DOCKET NUMBER: 27013/34028
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 312-474-6300
; TELEFAX: 312-474-0448
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 98 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
;
; US-08-944-368A-4
```

```
Query Match          100.0%; Score 47; DB 2; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.07;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
OY      1 HVDIRTTLED 9
        |||||||
Db       73 HVDIRTTLED 81
```

```
RESULT 15
US-09-820-764-4
; Sequence 4, Application US/09820764
; Patent No. 632696
; GENERAL INFORMATION:
; APPLICANT: BURGER, Alexander
; APPLICANT: HALBEK, Michael
; TITLE OF INVENTION: PAPILLOMA VIRUS CAPSOMERE VACCINE
; FORMULATIONS AND METHODS OF USE
; NUMBER OF SEQUENCES: 28
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: FOLEY & LARDNER
; STREET: 3000 K Street, N.W.
; CITY: Washington
; STATE: D.C.
; COUNTRY: U.S.A.
; ZIP: 20007-5109
;
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/820,764
; FILING DATE: 30-Mar-2001
; CLASSIFICATION: <Unknown>
```

```

;
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 09/026,896
; FILING DATE: 20-FEB-1998
; ATTORNEY/AGENT INFORMATION:
; NAME: Sandercock, Colin G.
; REGISTRATION NUMBER: 31,298
; REFERENCE/DOCKET NUMBER: 37067/102
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202) 672-5300
; TELEFAX: (202) 672-5399
;
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 98 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; SEQUENCE DESCRIPTION: SEQ ID NO: 4:
US-09-820-764-4

Query Match 100.0%; Score 47; DB 2; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.07;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 HYDRTILED 9
Db 73 HYDRTILED 81

RESULT 16
US-09-613-303-8
; Sequence 8, Application US/09613303
; Patent No. 6495347
; GENERAL INFORMATION:
; APPLICANT: Siegel, Marvin
; APPLICANT: Chu, N. Randall
; TITLE OF INVENTION: INDUCTION OF A TH1-LIKE RESPONSE IN VITRO
; FILE REFERENCE: 12071/002001
; CURRENT APPLICATION NUMBER: US/09/613,303
; CURRENT FILING DATE: 2000-07-10
; PRIOR APPLICATION NUMBER: US 60/143,757
; PRIOR FILING DATE: 1999-07-08
; NUMBER OF SEQ ID NOS: 55
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 8
; LENGTH: 98
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: fusion sequence
US-09-613-303-8

Query Match 100.0%; Score 47; DB 2; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.07;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 HYDRTILED 9
Db 73 HYDRTILED 81

RESULT 17
US-09-566-420-19
; Sequence 19, Application US/09566420
; Patent No. 6500641
; GENERAL INFORMATION:
; APPLICANT: CHEN, SI-YI AND ZHAOYANG, YOU
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR ANTIGENS WHICH ELICIT AN
; TITLE OF INVENTION: IMMUNE RESPONSE
; FILE REFERENCE: TBA
; CURRENT APPLICATION NUMBER: US/09/566,420
; CURRENT FILING DATE: 2000-05-05
; PRIOR APPLICATION NUMBER: 60/132,752
```

```

;
; PRIOR FILING DATE: 1999-05-06
; PRIOR APPLICATION NUMBER: 60/132,750
; PRIOR FILING DATE: 1999-05-06
; NUMBER OF SEQ ID NOS: 19
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 19
; LENGTH: 98
; TYPE: PRT
; ORGANISM: Human papillomavirus type E7
US-09-566-420-19

Query Match 100.0%; Score 47; DB 2; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.07;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 HYDRTILED 9
Db 73 HYDRTILED 81

RESULT 18
US-09-986-118A-4
; Sequence 4, Application US/09986118A
; Patent No. 6562351
; GENERAL INFORMATION:
; APPLICANT: BURGER, Alexander
; APPLICANT: HALLEK, Michael
; TITLE OF INVENTION: PAPILLOMA VIRUS CAPSOMERE VACCINE
; FORMULATIONS AND METHODS OF USE
; NUMBER OF SEQUENCES: 28
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: FOLEY & LARDNER
; STREET: 3000 K Street, N.W.
; CITY: Washington
; STATE: D.C.
; COUNTRY: U.S.A.
; ZIP: 20007-5109
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/986,118A
; FILING DATE: 07-No. 6562351-2001
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 09/026,896
; FILING DATE: <Unknown>
; ATTORNEY/AGENT INFORMATION:
; NAME: Sandercock, Colin G.
; REGISTRATION NUMBER: 31,298
; REFERENCE/DOCKET NUMBER: 37067/102
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202) 672-5300
; TELEFAX: (202) 672-5399
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 98 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; SEQUENCE DESCRIPTION: SEQ ID NO: 4:
US-09-986-118A-4

Query Match 100.0%; Score 47; DB 2; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.07;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 HYDRTILED 9
Db 73 HYDRTILED 81
```

RESULT 19
US-09-728-466-1
; Sequence 1, Application US/09728466
; Patent No. 6641994
; GENERAL INFORMATION:
; APPLICANT: Fisher, Christopher
; TITLE OF INVENTION: Methods to Identify Anti-Viral Agents
; FILE REFERENCE: 28341/6216
; CURRENT APPLICATION NUMBER: US/09/728,466
; CURRENT FILING DATE: 2000-12-01
; PRIOR APPLICATION NUMBER: 09/382,616
; PRIOR FILING DATE: 1999-08-25
; NUMBER OF SEQ ID NOS: 43
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 1
; LENGTH: 98
; TYPE: PRT
; ORGANISM: Papillomavirus sylvilagi
US-09-728-466-1

Query Match
Best Local Similarity 100.0%; Score 47; DB 2; Length 98;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 HVDIRTTLED 9
|||
Db 73 HVDIRTTLED 81

RESULT 20
US-09-824-017-4
; Sequence 4, Application US/09824017
; Patent No. 6649167
; GENERAL INFORMATION:
; APPLICANT: BURGER, Alexander
; TITLE OF INVENTION: PAPILLOMA VIRUS CAPSOMERE VACCINE
; FORMULATIONS AND METHODS OF USE
; NUMBER OF SEQUENCES: 28
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: FOLEY & LARDNER
; STREET: 3000 K Street, N.W.
; CITY: Washington
; STATE: D.C.
; COUNTRY: U.S.A.
; ZIP: 20007-5109
; COMPUTER READABLE FORM:
; MEDIUM TYPE: floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/824,017
; FILING DATE: 03-Apr-2001
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 09/026,896
; FILING DATE: 1998-02-20
; ATTORNEY/AGENT INFORMATION:
; NAME: Sandercock, Colin G.
; REGISTRATION NUMBER: 31,298
; REFERENCE/DOCKET NUMBER: 37067/102
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202) 672-5300
; TELEFAX: (202) 672-5399
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 98 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein

SEQUENCE DESCRIPTION: SEQ ID NO: 4:
US-09-824-017-4
Query Match
Best Local Similarity 100.0%; Score 47; DB 2; Length 98;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 HVDIRTTLED 9
|||
Db 73 HVDIRTTLED 81

RESULT 21
US-10-267-311-8
; Sequence 8, Application US/10267311
; Patent No. 6657055
; GENERAL INFORMATION:
; APPLICANT: Siegel, Marvin
; APPLICANT: Chu, N. Randall
; TITLE OF INVENTION: INDUCTION OF A THI-LIKE RESPONSE IN VITRO
; FILE REFERENCE: 12071/002001
; CURRENT APPLICATION NUMBER: US/10/267,311
; CURRENT FILING DATE: 2002-10-09
; PRIOR APPLICATION NUMBER: US/09/613,303
; PRIOR FILING DATE: 2000-07-10
; PRIOR APPLICATION NUMBER: US 60/143,757
; PRIOR FILING DATE: 1999-07-08
; NUMBER OF SEQ ID NOS: 55
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 8
; LENGTH: 98
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: fusion sequence
US-10-267-311-8

Query Match
Best Local Similarity 100.0%; Score 47; DB 2; Length 98;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 HVDIRTTLED 9
|||
Db 73 HVDIRTTLED 81

RESULT 22
US-10-201-764-19
; Sequence 19, Application US/10201764
; Patent No. 6716623
; GENERAL INFORMATION:
; APPLICANT: CHEN, SI-YI AND ZHAOYANG, YOU
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR ANTIGENS WHICH ELICIT AN
; IMMUNE RESPONSE
; FILE REFERENCE: TBA
; CURRENT APPLICATION NUMBER: US/10/201,764
; CURRENT FILING DATE: 2002-07-22
; PRIOR APPLICATION NUMBER: US/09/566,420
; PRIOR FILING DATE: 2000-05-05
; PRIOR APPLICATION NUMBER: 60/132,752
; PRIOR FILING DATE: 1999-05-06
; PRIOR APPLICATION NUMBER: 60/132,750
; PRIOR FILING DATE: 1999-05-06
; NUMBER OF SEQ ID NOS: 19
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 19
; LENGTH: 98
; TYPE: PRT
; ORGANISM: Human papillomavirus type E7
US-10-201-764-19

Query Match
Best Local Similarity 100.0%; Score 47; DB 2; Length 98;

Best Local Similarity 100.0%; Pred. No. 0.07;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 HYDIRTLED 9
| | | | |
Db 73 HYDIRTLED 81

RESULT 23

US-09-637-746-3
; Sequence 3, Application US/09637746
; Patent No. 6727079
; GENERAL INFORMATION:
; APPLICANT: Thorgelsson, Snorri S.
; APPLICANT: Moltach, Joseph T.
; APPLICANT: Zhang, Minghang
; TITLE OF INVENTION: CDNA ENCODING A GENE BOG (B5T OVER-EXPRESSED GENE) AND ITS PROTEIN
; FILE REFERENCE: 11613.29USW1
; CURRENT APPLICATION NUMBER: US/09/637,746
; CURRENT FILING DATE: 2000-08-11
; PRIOR APPLICATION NUMBER: PCT/US99/04142
; PRIOR FILING DATE: 1999-02-25
; PRIOR APPLICATION NUMBER: US 60/079,567
; PRIOR FILING DATE: 1998-03-27
; PRIOR APPLICATION NUMBER: US 60/075,922
; PRIOR FILING DATE: 1998-02-25
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 3
; LENGTH: 98
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-09-637-746-3

Query Match 100.0%; Score 47; DB 2; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.07;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 HYDIRTLED 9
| | | | |
Db 73 HYDIRTLED 81

RESULT 24

US-09-501-097A-7
; Sequence 7, Application US/09501097A
; Patent No. 6734173
; GENERAL INFORMATION:
; APPLICANT: Tzyy-Chou Wu
; APPLICANT: Chien-Fu Hung
; TITLE OF INVENTION: IMPROVED HSP DNA VACCINES
; FILE REFERENCE: 2240-169349
; CURRENT APPLICATION NUMBER: US/09/501,097A
; CURRENT FILING DATE: 2000-02-09
; NUMBER OF SEQ ID NOS: 25
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 7
; LENGTH: 98
; TYPE: PRT
; ORGANISM: human papillomavirus
US-09-501-097A-7

Query Match 100.0%; Score 47; DB 2; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.07;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 HYDIRTLED 9
| | | | |
Db 73 HYDIRTLED 81

RESULT 25

US-09-980-523A-12
; Sequence 12, Application US/09980523A
; Patent No. 6783763
; GENERAL INFORMATION:
; APPLICANT: CHOPPIN, JEANNINE
; APPLICANT: BOURGAULT VILLADA, ISABELLE
; APPLICANT: GUILLET, JEAN-GERARD
; APPLICANT: CONNAN, FRANCINE
; APPLICANT: FERRIES, ESTELLE
; TITLE OF INVENTION: POLYPEPTIC PROTEIN FRAGMENTS OF THE E6 AND E7
; TITLE OF INVENTION: PROTEINS OF HPV, THEIR PRODUCTION AND THEIR USE
; TITLE OF INVENTION: PARTICULARLY IN VACCINATION
; FILE REFERENCE: WO91 AO INS
; CURRENT APPLICATION NUMBER: US/09/980,523A
; CURRENT FILING DATE: 2002-04-29
; PRIOR APPLICATION NUMBER: PCT/FR00/01513
; PRIOR FILING DATE: 2000-05-31
; PRIOR APPLICATION NUMBER: FR 99/07012
; PRIOR FILING DATE: 1999-06-03
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 12
; LENGTH: 98
; TYPE: PRT
; ORGANISM: Human Papillomavirus
US-09-980-523A-12

Query Match 100.0%; Score 47; DB 2; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.07;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 HYDIRTLED 9
| | | | |
Db 73 HYDIRTLED 81

RESULT 26

US-09-613-303-12
; Sequence 12, Application US/09613303
; Patent No. 6495347
; GENERAL INFORMATION:
; APPLICANT: Siegel, Marvin
; APPLICANT: Chu, N. Randall
; APPLICANT: Mizzen, Lee A.
; TITLE OF INVENTION: INDUCTION OF A TH1-LIKE RESPONSE IN VITRO
; FILE REFERENCE: 12071/002001
; CURRENT APPLICATION NUMBER: US/09/613,303
; CURRENT FILING DATE: 2000-07-10
; PRIOR APPLICATION NUMBER: US 60/143,757
; PRIOR FILING DATE: 1999-07-08
; NUMBER OF SEQ ID NOS: 55
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 12
; LENGTH: 121
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: fusion sequence
US-09-613-303-12

Query Match 100.0%; Score 47; DB 2; Length 121;
Best Local Similarity 100.0%; Pred. No. 0.089;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 HYDIRTLED 9
| | | | |
Db 96 HYDIRTLED 104

RESULT 27

US-10-267-311-12
; Sequence 12, Application US/10267311
; Patent No. 6657055

```

; GENERAL INFORMATION:
; APPLICANT: Siegel, Marvin
; APPLICANT: Chu, N. Randall
; APPLICANT: Mizzen, Lee A.
; TITLE OF INVENTION: INDUCTION OF A TH1-LIKE RESPONSE IN VITRO
; FILE REFERENCE: 12071/002001
; CURRENT APPLICATION NUMBER: US/0/267,311
; CURRENT FILING DATE: 2002-10-09
; PRIOR APPLICATION NUMBER: US/09/613,303
; PRIOR FILING DATE: 2000-07-10
; PRIOR APPLICATION NUMBER: US 60/143,757
; PRIOR FILING DATE: 1999-07-08
; NUMBER OF SEQ ID NOS: 55
; SOFTWARE: PasteSeq for Windows Version 4.0
; SEQ ID NO 12
; LENGTH: 121
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: fusion sequence
US-10-267-311-12

```

```

Query Match          100.0%; Score 47; DB 2; Length 121;
Best Local Similarity 100.0%; Pred. No. 0.089;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```
QY      1 HVDIRTTLED 9
        |||||
Db       96 HVDIRTTLED 104

```

```

RESULT 28
US-08-860-165-14
; Sequence 14, Application US/08860165A
; Patent No. 6004557
; GENERAL INFORMATION:
; APPLICANT: EDWARDS, Stirling John
; APPLICANT: COX, John Cooper
; APPLICANT: WEBB, Elizabeth Ann
; APPLICANT: FRASER, Ian
; TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
; FILE REFERENCE: 17227/130
; CURRENT APPLICATION NUMBER: US/08/860,165A
; CURRENT FILING DATE: 1997-09-22
; EARLIER APPLICATION NUMBER: PCT/AU95/00868
; EARLIER FILING DATE: 1995-12-20
; EARLIER APPLICATION NUMBER: AU PN0157
; EARLIER FILING DATE: 1994-12-20
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 14
; LENGTH: 172
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Gene Fusion
US-08-860-165-14

```

```

Query Match          100.0%; Score 47; DB 2; Length 172;
Best Local Similarity 100.0%; Pred. No. 0.13;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```
QY      1 HVDIRTTLED 9
        |||||
Db       41 HVDIRTTLED 49

```

```

RESULT 29
US-09-359-382-14
; Sequence 14, Application US/09359382
; Patent No. 6306397
; GENERAL INFORMATION:
; APPLICANT: EDWARDS, Stirling John

```

```

; APPLICANT: COX, John Cooper
; APPLICANT: WEBB, Elizabeth Ann
; APPLICANT: FRASER, Ian
; TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
; FILE REFERENCE: 017227/0148
; CURRENT APPLICATION NUMBER: US/09/359,382
; CURRENT FILING DATE: 1999-07-23
; EARLIER APPLICATION NUMBER: US 08/860,165
; EARLIER FILING DATE: 1997-09-22
; EARLIER APPLICATION NUMBER: PCT/AU95/00868
; EARLIER FILING DATE: 1995-12-20
; EARLIER APPLICATION NUMBER: AU PN0157/94
; EARLIER FILING DATE: 1994-12-20
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 14
; LENGTH: 172
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-09-359-382-14

```

```

Query Match          100.0%; Score 47; DB 2; Length 172;
Best Local Similarity 100.0%; Pred. No. 0.13;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```
QY      1 HVDIRTTLED 9
        |||||
Db       41 HVDIRTTLED 49

```

```

RESULT 30
US-09-462-993-2
; Sequence 2, Application US/09462993
; Patent No. 6884786
; GENERAL INFORMATION:
; APPLICANT: KIENY, Marie-Paule
; APPLICANT: BALLOUT, Jean-Marc
; APPLICANT: BIZOUARNE, Nadine
; TITLE OF INVENTION: ANTITUMORAL COMPOSITION BASED ON IMMUNOGENIC
; FILE REFERENCE: 017753-122
; CURRENT APPLICATION NUMBER: US/09/462,993
; CURRENT FILING DATE: 2000-04-17
; PRIOR APPLICATION NUMBER: PCT/FR98/01576
; PRIOR FILING DATE: 1998-07-17
; PRIOR APPLICATION NUMBER: FR 97/09152
; PRIOR FILING DATE: 1997-07-18
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: PatentIn Ver. 2.2
; SEQ ID NO 2
; LENGTH: 185
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Derived from human papillomavirus, strain
; OTHER INFORMATION: HPV-16, E7 fusion signals of the rables
; OTHER INFORMATION: glycoprotein, clone E7*TKR.
US-09-462-993-2

```

```

Query Match          100.0%; Score 47; DB 2; Length 185;
Best Local Similarity 100.0%; Pred. No. 0.14;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```
QY      1 HVDIRTTLED 9
        |||||
Db       92 HVDIRTTLED 100

```

```

RESULT 31
US-09-613-303-35
; Sequence 35, Application US/09613303
; Patent No. 6495347
; GENERAL INFORMATION:

```

```

; APPLICANT: Siegel, Marvin
; APPLICANT: Chu, N. Randall
; APPLICANT: Mizzen, Lee A.
; TITLE OF INVENTION: INDUCTION OF A TH1-LIKE RESPONSE IN VITRO
; FILE REFERENCE: 12071/002001
; CURRENT APPLICATION NUMBER: US/09/613,303
; PRIOR FILING DATE: 2000-07-10
; PRIOR APPLICATION NUMBER: US 60/143,757
; PRIOR FILING DATE: 1999-07-08
; NUMBER OF SEQ ID NOS: 55
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 35
; LENGTH: 198
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: fusion sequence
; US-09-613-303-35
```

```
Query Match          100.0%; Score 47; DB 2; Length 198;
Best Local Similarity 100.0%; Pred. No. 0.15;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy 1 HYDIRTLED 9
Db 173 HYDIRTLED 181
```

```

RESULT 32
; US-10-267-311-35
; Sequence 35, Application US/10267311
; Patent No. 6657055
; GENERAL INFORMATION:
; APPLICANT: Siegel, Marvin
; APPLICANT: Chu, N. Randall
; APPLICANT: Mizzen, Lee A.
; TITLE OF INVENTION: INDUCTION OF A TH1-LIKE RESPONSE IN VITRO
; FILE REFERENCE: 12071/002001
; CURRENT APPLICATION NUMBER: US/10/267,311
; CURRENT FILING DATE: 2002-10-09
; PRIOR APPLICATION NUMBER: US/09/613,303
; PRIOR FILING DATE: 2000-07-10
; PRIOR APPLICATION NUMBER: US 60/143,757
; PRIOR FILING DATE: 1999-07-08
; NUMBER OF SEQ ID NOS: 55
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 35
; LENGTH: 198
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: fusion sequence
; US-10-267-311-35
```

```
Query Match          100.0%; Score 47; DB 2; Length 198;
Best Local Similarity 100.0%; Pred. No. 0.15;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy 1 HYDIRTLED 9
Db 173 HYDIRTLED 181
```

```

RESULT 33
; US-09-485-885-1
; Sequence 1, Application US/09485885
; Patent No. 6342224
; GENERAL INFORMATION:
; APPLICANT: Bruck, Claudine
; APPLICANT: Cabezon Silva, Teresa
; APPLICANT: Delisse, Anne-Marie Eva Bernande
; APPLICANT: Gerard, Catherine Marie Ghislaine
; APPLICANT: Lombardo-Bencheikh, Angela
```

```

; TITLE OF INVENTION: Vaccine
; FILE REFERENCE: B45107
; CURRENT APPLICATION NUMBER: US/09/485,885
; CURRENT FILING DATE: 2000-02-18
; PRIOR APPLICATION NUMBER: PCT/EP98/05285
; PRIOR FILING DATE: 1998-08-17
; PRIOR APPLICATION NUMBER: GB 9717953.5
; PRIOR FILING DATE: 1997-08-22
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 1
; LENGTH: 220
; TYPE: PRT
; ORGANISM: Homo sapien
; US-09-485-885-1
```

```
Query Match          100.0%; Score 47; DB 2; Length 220;
Best Local Similarity 100.0%; Pred. No. 0.17;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy 1 HYDIRTLED 9
Db 186 HYDIRTLED 194
```

```

RESULT 34
; US-09-485-885-8
; Sequence 8, Application US/09485885
; Patent No. 6342224
; GENERAL INFORMATION:
; APPLICANT: Bruck, Claudine
; APPLICANT: Cabezon Silva, Teresa
; APPLICANT: Delisse, Anne-Marie Eva Bernande
; APPLICANT: Gerard, Catherine Marie Ghislaine
; APPLICANT: Lombardo-Bencheikh, Angela
; TITLE OF INVENTION: Vaccine
; FILE REFERENCE: B45107
; CURRENT APPLICATION NUMBER: US/09/485,885
; CURRENT FILING DATE: 2000-02-18
; PRIOR APPLICATION NUMBER: PCT/EP98/05285
; PRIOR FILING DATE: 1998-08-17
; PRIOR APPLICATION NUMBER: GB 9717953.5
; PRIOR FILING DATE: 1997-08-22
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 8
; LENGTH: 220
; TYPE: PRT
; ORGANISM: Homo sapien
; US-09-485-885-8
```

```
Query Match          100.0%; Score 47; DB 2; Length 220;
Best Local Similarity 100.0%; Pred. No. 0.17;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy 1 HYDIRTLED 9
Db 186 HYDIRTLED 194
```

```

RESULT 35
; US-09-485-885-12
; Sequence 12, Application US/09485885
; Patent No. 6342224
; GENERAL INFORMATION:
; APPLICANT: Bruck, Claudine
; APPLICANT: Cabezon Silva, Teresa
; APPLICANT: Delisse, Anne-Marie Eva Bernande
; APPLICANT: Gerard, Catherine Marie Ghislaine
; APPLICANT: Lombardo-Bencheikh, Angela
; TITLE OF INVENTION: Vaccine
; FILE REFERENCE: B45107
; CURRENT APPLICATION NUMBER: US/09/485,885
```

;; CURRENT FILING DATE: 2000-02-18
;; PRIOR APPLICATION NUMBER: PCT/EP98/05285
;; PRIOR FILING DATE: 1998-08-17
;; PRIOR APPLICATION NUMBER: GB 9717953.5
;; PRIOR FILING DATE: 1997-08-22
;; NUMBER OF SEQ ID NOS: 23
;; SOFTWARE: FastSeq for Windows Version 3.0
;; SEQ ID NO 12
;; LENGTH: 239
;; TYPE: PRT
;; ORGANISM: Homo sapien
US-09-485-885-12

Query Match 100.0%; Score 47; DB 2; Length 239;
Best Local Similarity 100.0%; Pred. No. 0.19;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 HVDIRTTLED 9
|||
Db 205 HVDIRTTLED 213

RESULT 36
US-08-459-818-20
; Sequence 20, Application US/08459818
; Patent No. 5851795
; GENERAL INFORMATION:
; APPLICANT: Linsley, Peter S.
; APPLICANT: Ledbetter, Jeffrey A.
; APPLICANT: Damle, Nitin K.
; APPLICANT: Brady, William
; TITLE OF INVENTION: CTLA4 Receptor and Uses Thereof
; NUMBER OF SEQUENCES: 27
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Merchant & Gould
; STREET: 1150 Santa Monica Blvd., Suite 400
; CITY: Los Angeles
; STATE: California
; COUNTRY: USA
; ZIP: 90025
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: FastSeq 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/459, 818
; FILING DATE: 02-JUN-1995
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Adriano, Sarah B.
; REGISTRATION NUMBER: 34,470
; REFERENCE/DOCKET NUMBER: 30436.35US02
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 310-445-1140
; TELEFAX: 310-445-9031
; INFORMATION FOR SEQ ID NO: 20:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 253 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-459-818-20

Query Match 100.0%; Score 47; DB 1; Length 253;
Best Local Similarity 100.0%; Pred. No. 0.2;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
OY 1 HVDIRTTLED 9
|||
Db 228 HVDIRTTLED 236

RESULT 37
US-08-889-666-20
; Sequence 20, Application US/08889666
; Patent No. 5885796
; GENERAL INFORMATION:
; APPLICANT: Linsley, Peter S.
; APPLICANT: Ledbetter, Jeffrey A.
; APPLICANT: Damle, Nitin K.
; APPLICANT: Brady, William
; APPLICANT: Kiener, Peter A.
; TITLE OF INVENTION: CTLA4 Receptor and Uses Thereof
; NUMBER OF SEQUENCES: 26
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Merchant & Gould
; STREET: 1150 Santa Monica Blvd., Suite 400
; CITY: Los Angeles
; STATE: California
; COUNTRY: USA
; ZIP: 90025
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/889, 666
; FILING DATE: 08-JUL-1997
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/375390
; FILING DATE: 18-JAN-1995
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Adriano, Sarah B.
; REGISTRATION NUMBER: 34,470
; REFERENCE/DOCKET NUMBER: 30436-35US01
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 310-445-1140
; TELEFAX: 310-445-9031
; INFORMATION FOR SEQ ID NO: 20:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 253 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-889-666-20

Query Match 100.0%; Score 47; DB 1; Length 253;
Best Local Similarity 100.0%; Pred. No. 0.2;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
OY 1 HVDIRTTLED 9
|||
Db 228 HVDIRTTLED 236

RESULT 38
US-08-465-078-20
; Sequence 20, Application US/08465078
; Patent No. 5885796
; GENERAL INFORMATION:
; APPLICANT: Linsley, Peter S.
; APPLICANT: Ledbetter, Jeffrey A.
; APPLICANT: Damle, Nitin K.
; APPLICANT: Brady, William
; APPLICANT: Kiener, Peter A.
; TITLE OF INVENTION: CTLA4 Receptor and Uses Thereof
; NUMBER OF SEQUENCES: 26
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Merchant & Gould
; STREET: 1150 Santa Monica Blvd., Suite 400


```

CITY: Los Angeles
STATE: California
COUNTRY: USA
ZIP: 90025
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/465,078
FILING DATE: 05-JUN-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/375390
FILING DATE: 18-JAN-1995
ATTORNEY/AGENT INFORMATION:
NAME: Adriano, Sarah B.
REGISTRATION NUMBER: 34,470
REFERENCE/DOCKET NUMBER: 30436-35US01
TELECOMMUNICATION INFORMATION:
TELEPHONE: 310-445-1140
TELEFAX: 310-445-9031
INFORMATION FOR SEQ ID NO: 20:
SEQUENCE CHARACTERISTICS:
LENGTH: 253 amino acids
TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-465-078-20

Query Match          100.0%; Score 47; DB 1; Length 253;
Best Local Similarity 100.0%; Pred. No. 0.2;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0.

QY      1 HVDIRTTLED 9
Db      228 HVDIRTTLED 236

RESULT 39
US-08-725-776-20
; Sequence 20, Application US/08725776
; Patent No. 5968510
; GENERAL INFORMATION:
; APPLICANT: Linsley, Peter S.
; APPLICANT: Ledbetter, Jeffrey A.
; APPLICANT: Damele, Nitin K.
; APPLICANT: Brady, William
; APPLICANT: Klenner, Peter A.
; TITLE OF INVENTION: CTLA4 Receptor and Uses Thereof
; NUMBER OF SEQUENCES: 26
; CORRESPONDENCE ADDRESS:
; ADDRESSER: Merchant & Gould
; STREET: 11150 Santa Monica Blvd., Suite 400
; CITY: Los Angeles
; STATE: California
; COUNTRY: USA
; ZIP: 90025
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/725,776
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/375390
; FILING DATE: 18-JAN-1995
; ATTORNEY/AGENT INFORMATION:

```

```

NAME: Adriano, Sarah B.
REGISTRATION NUMBER: 34,470
REFERENCE/DOCKET NUMBER: 30436-35US01
TELECOMMUNICATION INFORMATION:
TELEPHONE: 310-445-1140
TELEFAX: 310-445-9031
INFORMATION FOR SEQ ID NO: 20:
SEQUENCE CHARACTERISTICS:
LENGTH: 253 amino acids
TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-725-776-20

Query Match      100.0%; Score 47; DB 1; Length 253;
Best Local Similarity 100.0%; Pred. No. 0.2;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0

QY      1 HVDIRTLTD 9
Db      228 HVDIRTLTD 236

RESULT 40
US-08-488-062-20
; Sequence 20, Application US/08488062
; Patent No. 5977318
; GENERAL INFORMATION:
; APPLICANT: Linsley, Peter S.
; APPLICANT: Ledbetter, Jeffrey A.
; APPLICANT: Dangle, Milton K.
; APPLICANT: Brady, William
; APPLICANT: Kiener, Peter A.
; TITLE OF INVENTION: CTLA4 Receptor and Uses Thereof
; NUMBER OF SEQUENCES: 26
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Merchant & Gould
; STREET: 11150 Santa Monica Blvd., Suite 400
; CITY: Los Angeles
; STATE: California
; COUNTRY: USA
; ZIP: 90025
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/488,062
; FILING DATE: 07-JUN-1995
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/375390
; FILING DATE: 18-JAN-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: Adriano, Sarah B.
; REGISTRATION NUMBER: 34,470
; REFERENCE/DOCKET NUMBER: 30436-35US01
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 310-445-1140
; TELEFAX: 310-445-9031
; INFORMATION FOR SEQ ID NO: 20:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 253 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-488-062-20

Query Match      100.0%; Score 47; DB 1; Length 253;
Best Local Similarity 100.0%; Pred. No. 0.2;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0

```

Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 HVDIRTTLED 9
|||||

Db 228 HVDIRTTLED 236

RESULT 41

US-08-117-083-9
; Sequence 9, Application US/08117083
; Patent No. 5719054
; GENERAL INFORMATION:
; APPLICANT: Bournell, Michael E.
; APPLICANT: Inglis, Stephen C.
; APPLICANT: Munro, Alan J.
; TITLE OF INVENTION: Recombinant Virus Vectors Encoding Human
; NUMBER OF SEQUENCES: 70
; CORRESPONDENCE ADDRESS:
; ADDRESSER: Walter H. Dregger
; STREET: 4 Embarcadero Center, Suite 3400
; CITY: San Francisco
; STATE: CA
; COUNTRY: USA
; ZIP: 94111
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/117,083
; FILING DATE: 10-SEP-1993
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Dregger, Walter H.
; REGISTRATION NUMBER: 24,190
; REFERENCE/DOCKET NUMBER: A-58783
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 415-781-1989
; TELEFAX: 415-398-3249
; TELEX: 910 277299
; INFORMATION FOR SEQ ID NO: 9:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 263 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; FEATURE:
; NAME/KEY: Protein
; LOCATION: 1..263
; OTHER INFORMATION:
; OTHER INFORMATION: /note="Xaa refers to stop codon in
US-08-117-083-9
Query Match 100.0%; Score 47; DB 1; Length 263;
Best Local Similarity 100.0%; Pred. No. 0.21;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 HVDIRTTLED 9
|||||

Db 234 HVDIRTTLED 242

RESULT 42

US-08-860-165-10
; Sequence 10, Application US/08860165A
; Patent No. 6004557
; GENERAL INFORMATION:
; APPLICANT: EDWARDS, Scirling John
; APPLICANT: COX, John Cooper
; APPLICANT: WEBB, Elizabeth Ann

; APPLICANT: FRAZER, Ian
; TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
; FILE REFERENCE: 17227/130
; CURRENT APPLICATION NUMBER: US/08/860,165A
; CURRENT FILING DATE: 1997-09-22
; EARLIER APPLICATION NUMBER: PCT/AU95/00868
; EARLIER FILING DATE: 1995-12-20
; EARLIER APPLICATION NUMBER: AU PNO157
; EARLIER FILING DATE: 1994-12-20
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: Patent In Ver. 2.0
; SEQ ID NO 10
; LENGTH: 266
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURES:
; OTHER INFORMATION: Description of Artificial Sequence: Gene Fusion

US-08-860-165-10

Query Match 100.0%; Score 47; DB 2; Length 266;
Best Local Similarity 100.0%; Pred. No. 0.21;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 HVDIRTTLED 9
|||||

Db 233 HVDIRTTLED 241

RESULT 43

US-09-359-382-10
; Sequence 10, Application US/09359382
; Patent No. 6306397
; GENERAL INFORMATION:
; APPLICANT: EDWARDS, Scirling John
; APPLICANT: COX, John Cooper
; APPLICANT: WEBB, Elizabeth Ann
; APPLICANT: FRAZER, Ian
; TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
; FILE REFERENCE: 017227/0148
; CURRENT APPLICATION NUMBER: US/09/359,382
; CURRENT FILING DATE: 1999-07-23
; EARLIER APPLICATION NUMBER: US 08/860,165
; EARLIER FILING DATE: 1997-09-22
; EARLIER APPLICATION NUMBER: PCT/AU95/00868
; EARLIER FILING DATE: 1995-12-20
; EARLIER APPLICATION NUMBER: AU PNO157/94
; EARLIER FILING DATE: 1994-12-20
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: Patent In Ver. 2.0
; SEQ ID NO 10
; LENGTH: 266
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-09-359-382-10

Query Match 100.0%; Score 47; DB 2; Length 266;
Best Local Similarity 100.0%; Pred. No. 0.21;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 HVDIRTTLED 9
|||||

Db 233 HVDIRTTLED 241

RESULT 44

US-09-367-309A-1
; Sequence 1, Application US/09367309A
; Patent No. 6428807
; GENERAL INFORMATION:
; APPLICANT: MACFARLAN, RODERICK I.
; APPLICANT: MALLIAROS, JIM
; TITLE OF INVENTION: CHELATING IMMUNOSTIMULATING COMPLEXES
; FILE REFERENCE: 017227/0149

CURRENT APPLICATION NUMBER: US/09/367,309A
CURRENT FILING DATE: 1999-08-11
PRIOR APPLICATION NUMBER: PCT/AU98/00080
PRIOR FILING DATE: 1998-02-13
PRIOR APPLICATION NUMBER: AU PO 5178
PRIOR FILING DATE: 1997-02-19
NUMBER OF SEQ ID NOS: 6
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 1
LENGTH: 266
TYPE: PRT
ORGANISM: Human papillomavirus type 16
US-09-367-309A-1

Query Match 100.0%; Score 47; DB 2; Length 266;
Best Local Similarity 100.0%; Pred. No. 0.21;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 HVDIRTLTD 9
Db 233 HVDIRTLTD 241

RESULT 45
US-09-501-097A-25
Sequence 25, Application US/09501097A
Patent No. 6734173
GENERAL INFORMATION:
APPLICANT: Tzyy-Chou Wu
APPLICANT: Chien-Fu Hung
TITLE OF INVENTION: IMPROVED HSP DNA VACCINES
FILE REFERENCE: 2240-169349
CURRENT APPLICATION NUMBER: US/09/501,097A
CURRENT FILING DATE: 2000-02-09
NUMBER OF SEQ ID NOS: 25
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 25
LENGTH: 287
TYPE: PRT
ORGANISM: Human papillomavirus/Mouse
US-09-501-097A-25

Query Match 100.0%; Score 47; DB 2; Length 287;
Best Local Similarity 100.0%; Pred. No. 0.23;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 HVDIRTLTD 9
Db 262 HVDIRTLTD 270

RESULT 46
US-09-613-303-33
Sequence 33, Application US/09613303
Patent No. 6495347
GENERAL INFORMATION:
APPLICANT: Siegel, Marvin
APPLICANT: Chu, N. Randall
APPLICANT: Mizzen, Lee A.
TITLE OF INVENTION: INDUCTION OF A TH1-LIKE RESPONSE IN VITRO
FILE REFERENCE: 12071/002001
CURRENT APPLICATION NUMBER: US/09/613,303
CURRENT FILING DATE: 2000-07-10
PRIOR APPLICATION NUMBER: US 60/143,757
PRIOR FILING DATE: 1999-07-08
NUMBER OF SEQ ID NOS: 55
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 33
LENGTH: 295
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: fusion sequence

US-09-613-303-33

Query Match 100.0%; Score 47; DB 2; Length 295;
Best Local Similarity 100.0%; Pred. No. 0.24;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 HVDIRTLTD 9
Db 270 HVDIRTLTD 278

RESULT 47
US-10-267-311-33
Sequence 33, Application US/10267311
Patent No. 6657055
GENERAL INFORMATION:
APPLICANT: Siegel, Marvin
APPLICANT: Chu, N. Randall
APPLICANT: Mizzen, Lee A.
TITLE OF INVENTION: INDUCTION OF A TH1-LIKE RESPONSE IN VITRO
FILE REFERENCE: 12071/002001
CURRENT APPLICATION NUMBER: US/10/267,311
CURRENT FILING DATE: 2002-10-09
PRIOR APPLICATION NUMBER: US/09/613,303
PRIOR FILING DATE: 2000-07-10
PRIOR APPLICATION NUMBER: US 60/143,757
PRIOR FILING DATE: 1999-07-08
NUMBER OF SEQ ID NOS: 55
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 33
LENGTH: 295
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: fusion sequence
US-10-267-311-33

Query Match 100.0%; Score 47; DB 2; Length 295;
Best Local Similarity 100.0%; Pred. No. 0.24;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 HVDIRTLTD 9
Db 270 HVDIRTLTD 278

RESULT 48
US-09-613-303-25
Sequence 25, Application US/09613303
Patent No. 6495347
GENERAL INFORMATION:
APPLICANT: Siegel, Marvin
APPLICANT: Chu, N. Randall
APPLICANT: Mizzen, Lee A.
TITLE OF INVENTION: INDUCTION OF A TH1-LIKE RESPONSE IN VITRO
FILE REFERENCE: 12071/002001
CURRENT APPLICATION NUMBER: US/09/613,303
CURRENT FILING DATE: 2000-07-10
PRIOR APPLICATION NUMBER: US 60/143,757
PRIOR FILING DATE: 1999-07-08
NUMBER OF SEQ ID NOS: 55
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 25
LENGTH: 324
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: fusion sequence
US-09-613-303-25

Query Match 100.0%; Score 47; DB 2; Length 324;
Best Local Similarity 100.0%; Pred. No. 0.26;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Db 337 HVDIRTLIED 345

Search completed: May 5, 2006, 04:48:46
Job time : 24.7 secs

OY 1 HVDIRTLIED 9
Db 299 HVDIRTLIED 307

RESULT 49
US-10-267-311-25
; Sequence 25, Application US/10267311
; Patent No. 6657055
; GENERAL INFORMATION:
; APPLICANT: Siegel, Marvin
; APPLICANT: Chu, N. Randall
; APPLICANT: Mizzen, Lee A.
; TITLE OF INVENTION: INDUCTION OF A THI-LIKE RESPONSE IN VITRO
; FILE REFERENCE: 12071/002001
; CURRENT APPLICATION NUMBER: US/10/267,311
; PRIOR FILING DATE: 2002-10-09
; PRIOR APPLICATION NUMBER: US/09/613,303
; PRIOR FILING DATE: 2000-07-10
; PRIOR APPLICATION NUMBER: US 60/143,757
; NUMBER OF SEQ ID NOS: 55
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 25
; LENGTH: 324
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: fusion sequence
US-10-267-311-25

Query Match 100.0%; Score 47; DB 2; Length 324;
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; Sequence 6, Application US/09485885
; Patent No. 6342224
; GENERAL INFORMATION:
; APPLICANT: Bruck, Claudine
; APPLICANT: Cabezon Silva, Teresa
; APPLICANT: Delisse, Anne-Marie Eva Fernande
; APPLICANT: Gerard, Catherine Marie Ghislaine
; APPLICANT: Lombardo-Benchelkh, Angela
; TITLE OF INVENTION: Vaccine
; FILE REFERENCE: B45107
; CURRENT APPLICATION NUMBER: US/09/485,885
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; PRIOR FILING DATE: 1997-08-22
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 6
; LENGTH: 371
; TYPE: PRT
; ORGANISM: Homo sapien
US-09-485-885-6

Query Match 100.0%; Score 47; DB 2; Length 371;
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OM protein - protein search, using sw model

Run on: May 5, 2006, 08:18:14 ; Search time 56 Seconds
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Title: US-08-170-344-40
Perfect score: 47
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Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1867569 seqs, 417829326 residues

Total number of hits satisfying chosen parameters: 1867569

Minimum DB seq length: 0
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Post-processing: Minimum Match 0%
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Database : Published Applications AA_Main:*

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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106	35	74.5	9	3	US-10-365-908-28	Sequence 28, Appl	179	32	68.1	172	4	US-10-230-414-194	Sequence 194, App
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253	32	68.1	172	4	US-10-219-472-194	Sequence 194, App	326	32	68.1	536	4	US-10-845-408-25	Sequence 25, Appl
254	32	68.1	172	4	US-10-219-527-194	Sequence 194, App	327	32	68.1	536	4	US-10-845-412-19	Sequence 19, Appl
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256	32	68.1	172	4	US-10-223-087-228	Sequence 228, App	329	32	68.1	536	5	US-10-846-219-19	Sequence 25, Appl
257	32	68.1	172	4	US-10-223-083-228	Sequence 228, App	330	32	68.1	536	5	US-10-846-219-25	Sequence 25, Appl
258	32	68.1	172	4	US-10-216-166-194	Sequence 194, App	331	32	68.1	536	5	US-10-821-604-19	Sequence 25, Appl
259	32	68.1	172	4	US-10-218-612-194	Sequence 194, App	332	32	68.1	536	5	US-10-821-604-25	Sequence 25, Appl
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261	32	68.1	172	4	US-10-216-163-194	Sequence 194, App	334	32	68.1	536	5	US-10-847-983-25	Sequence 25, Appl
262	32	68.1	172	4	US-10-223-081-228	Sequence 228, App	335	32	68.1	536	5	US-10-821-573-19	Sequence 25, Appl
263	32	68.1	172	4	US-10-218-765-194	Sequence 194, App	336	32	68.1	536	5	US-10-821-573-25	Sequence 25, Appl
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266	32	68.1	172	4	US-10-219-067-194	Sequence 194, App	339	32	68.1	536	5	US-10-850-125-19	Sequence 25, Appl
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271	32	68.1	172	4	US-10-219-480-194	Sequence 194, App	344	32	68.1	536	5	US-10-962-334-25	Sequence 25, Appl
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281	32	68.1	172	4	US-10-223-082-228	Sequence 228, App	354	32	68.1	662	5	US-10-472-928-2488	Sequence 2488, App
282	32	68.1	172	4	US-10-305-654-228	Sequence 228, App	355	32	68.1	662	5	US-10-501-282-4862	Sequence 4862, App
283	32	68.1	172	4	US-10-232-226-194	Sequence 194, App	356	32	68.1	679	5	US-10-617-320-3402	Sequence 3402, App
284	32	68.1	172	4	US-10-230-130-194	Sequence 194, App	357	32	68.1	706	5	US-10-450-763-55538	Sequence 55538, A
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287	32	68.1	172	4	US-10-232-230-194	Sequence 194, App	360	32	68.1	806	6	US-11-097-143-9390	Sequence 9390, App
288	32	68.1	172	4	US-10-119-480-194	Sequence 194, App	361	32	68.1	895	4	US-10-032-585-7321	Sequence 7321, App
289	32	68.1	172	5	US-10-219-477-194	Sequence 194, App	362	32	68.1	895	4	US-10-732-922-22452	Sequence 22452, A
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292	32	68.1	216	4	US-10-353-929-51	Sequence 51, Appl	365	32	68.1	1509	5	US-10-732-923-3349	Sequence 3349, App
293	32	68.1	216	4	US-10-408-765A-1388	Sequence 1388, App	366	32	68.1	1955	5	US-10-732-923-3349	Sequence 3349, App
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297	32	68.1	272	4	US-10-425-115-300505	Sequence 300505, App	370	32	68.0	371	6	US-10-212-628-69	Sequence 69, Appl
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300	32	68.1	322	4	US-10-437-963-203206	Sequence 203206, App	373	32	68.0	41	4	US-10-425-115-321715	Sequence 321715, App
301	32	68.1	329	5	US-10-739-930-10708	Sequence 10708, A	374	32	68.0	89	4	US-10-425-115-182629	Sequence 182629, App
302	32	68.1	336	4	US-10-424-599-238549	Sequence 238549, App	375	32	68.0	94	4	US-10-340-578-24	Sequence 24, Appl
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314	32	68.1	536	4	US-10-303-161-25	Sequence 25, Appl	387	32	68.0	196	4	US-10-767-701-59748	Sequence 59748, A
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318	32	68.1	536	4	US-10-303-128-25	Sequence 25, Appl	391	32	68.0	248	4	US-10-369-493-839	Sequence 839, App
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					US-10-732-923-13853	Sequence 13853, A						US-10-425-114-49944	Sequence 49944, A

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543	30	63.8	283	4	US-10-425-115-194245	Sequence 194245, A	616	30	63.8	728	5	US-10-732-923-23226	Sequence 23226, A
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547	30	63.8	307	4	US-10-425-114-39175	Sequence 39175, A	620	30	63.8	793	4	US-10-408-765A-2774	Sequence 2754, Ap
548	30	63.8	311	5	US-10-739-930-9957	Sequence 9957, Ap	621	30	63.8	800	4	US-10-437-963-139447	Sequence 139447, A
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584	30	63.8	548	4	US-10-408-765A-352	Sequence 352, App	657	29.5	62.8	404	4	US-10-251-078-12	Sequence 12, Appl
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586	30	63.8	565	4	US-10-425-114-72493	Sequence 26506, Ap	659	29.5	62.8	404	4	US-10-251-078-16	Sequence 16, Appl
587	30	63.8	570	4	US-10-425-115-265868	Sequence 265868, A	660	29.5	62.8	404	4	US-10-251-078-18	Sequence 18, Appl
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590	30	63.8	610	4	US-10-670-695-30	Sequence 30, Appl	663	29	61.7	9	3	US-09-891-823-33	Sequence 33, Appl
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592	30	63.8	624	6	US-11-097-143-22344	Sequence 22344, A	665	29	61.7	9	5	US-10-871-138-33	Sequence 33, Appl
593	30	63.8	624	6	US-11-097-143-28578	Sequence 28578, A	666	29	61.7	15	4	US-10-648-547-79	Sequence 79, Appl
594	30	63.8	626	4	US-10-108-260A-4299	Sequence 4299, Ap	667	29	61.7	15	4	US-10-306-541-79	Sequence 79, Appl
595	30	63.8	629	4	US-10-437-963-192558	Sequence 192558, A	668	29	61.7	16	4	US-10-256-326-12	Sequence 12, Appl
596	30	63.8	634	4	US-10-323-167-2	Sequence 2, Appl1	669	29	61.7	16	4	US-09-798-789-7	Sequence 7, Appl1
597	30	63.8	634	4	US-10-437-963-144299	Sequence 144299, A	670	29	61.7	43	3	US-09-981-289-7	Sequence 29, Appl
598	30	63.8	635	4	US-10-437-963-192708	Sequence 192708, A	671	29	61.7	43	4	US-10-262-630-29	Sequence 29, Appl
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605	30	63.8	658	6	US-11-013-314-8	Sequence 8, Appl1	678	29	61.7	68	4	US-10-437-963-55580	Sequence 55580, A
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687	29	61.7	88	6	US-11-021-949-143	Sequence 143, App	760	29	61.7	261	6	US-11-084-250-2	Sequence 2, Appl1
688	29	61.7	88	6	US-11-021-928A-40	Sequence 40, Appl	761	29	61.7	262	4	US-10-437-963-117179	Sequence 117179,
689	29	61.7	90	4	US-10-171-404A-14	Sequence 14, Appl	762	29	61.7	264	4	US-10-116-775-255	Sequence 255, App
690	29	61.7	93	4	US-10-425-115-245683	Sequence 245683,	763	29	61.7	264	4	US-10-291-172-206	Sequence 206, App
691	29	61.7	93	5	US-10-450-763-34131	Sequence 34131, A	764	29	61.7	264	4	US-10-221-278-206	Sequence 206, Appl
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696	29	61.7	114	4	US-10-424-599-148363	Sequence 148363,	769	29	61.7	270	5	US-10-412-6998-364	Sequence 364, App
697	29	61.7	118	4	US-10-335-977-8897	Sequence 8897, Ap	770	29	61.7	270	5	US-10-396-058-26	Sequence 26, Appl1
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711	29	61.7	137	4	US-10-437-963-179787	Sequence 179787,	784	29	61.7	311	4	US-10-671-403-148	Sequence 148, App
712	29	61.7	137	5	US-10-450-763-35978	Sequence 35978, A	785	29	61.7	311	4	US-10-671-403-148	Sequence 148, App
713	29	61.7	138	5	US-10-450-763-35980	Sequence 35980, A	786	29	61.7	311	4	US-10-671-419-148	Sequence 148, App
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715	29	61.7	141	6	US-11-097-143-42693	Sequence 42693, A	788	29	61.7	311	4	US-10-671-194-148	Sequence 148, App
716	29	61.7	142	4	US-10-784-880-66	Sequence 66, Appl1	789	29	61.7	311	4	US-10-673-098-148	Sequence 148, App
717	29	61.7	143	4	US-10-767-701-57801	Sequence 57801, A	790	29	61.7	311	4	US-10-672-638-148	Sequence 148, App
718	29	61.7	148	4	US-10-282-122A-58277	Sequence 58277, A	791	29	61.7	311	4	US-10-673-127-148	Sequence 148, App
719	29	61.7	148	4	US-10-335-977-8887	Sequence 8887, Ap	792	29	61.7	311	4	US-10-670-817-148	Sequence 148, App
720	29	61.7	150	4	US-10-767-701-59648	Sequence 59648, A	793	29	61.7	311	4	US-10-673-119-148	Sequence 148, App
721	29	61.7	152	3	US-09-925-300-1782	Sequence 1782, Ap	794	29	61.7	311	4	US-10-671-207-148	Sequence 148, App
722	29	61.7	153	4	US-10-425-115-345511	Sequence 345511,	795	29	61.7	311	5	US-10-673-120-148	Sequence 148, App
723	29	61.7	155	4	US-10-424-599-262831	Sequence 262831,	796	29	61.7	311	5	US-10-671-412-148	Sequence 148, App
724	29	61.7	157	4	US-10-767-701-42791	Sequence 42791, A	797	29	61.7	311	5	US-10-671-859-148	Sequence 148, App
725	29	61.7	161	3	US-09-925-301-1566	Sequence 1566, Ap	798	29	61.7	311	5	US-10-671-106-148	Sequence 148, App
726	29	61.7	166	4	US-10-246-946-3	Sequence 3, Appl1	799	29	61.7	312	3	US-09-906-179A-219	Sequence 219, App
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744	29	61.7	214	5	US-10-450-763-341723	Sequence 41723, A	817	29	61.7	338	4	US-10-369-493-34686	Sequence 6486, Ap
745	29	61.7	214	5	US-10-450-763-32924	Sequence 42924, A	818	29	61.7	338	4	US-10-425-114-53535	Sequence 53525, A
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751	29	61.7	237	5	US-10-733-923-16319	Sequence 16319, A	824	29	61.7	378	4	US-10-425-114-658830	Sequence 65830, A
752	29	61.7	242	4	US-10-276-774-2432	Sequence 2432, Ap	825	29	61.7	383	4	US-10-425-115-325879	Sequence 325879,
753	29	61.7	243	4	US-10-282-122A-47480	Sequence 47480, A	826	29	61.7	385	4	US-10-369-493-10254	Sequence 10254, A
754	29	61.7	252	4	US-10-424-599-168827	Sequence 168827,	827	29	61.7	385	4	US-10-041-018-49	Sequence 49, Appl1
755	29	61.7	254	5	US-10-450-763-37846	Sequence 37846, A	828	29	61.7	395	4	US-10-369-493-20749	Sequence 20749, A
756	29	61.7	257	4	US-10-369-493-11151	Sequence 11151, A	829	29	61.7	399	3	US-09-764-868-1005	Sequence 1005, Ap
757	29	61.7	258	4	US-10-264-049-4295	Sequence 4295, Ap	830	29	61.7	399	4	US-10-042-865-132	Sequence 132, App

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832	29	61.7	409	4	US-10-408-765A-1036	Sequence 1036, Ap	905	29	61.7	745	4	US-10-282-122A-44384	Sequence 44384, A
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835	29	61.7	415	3	US-09-764-868-1027	Sequence 1027, Ap	908	29	61.7	872	4	US-10-437-963-180394	Sequence 180394, A
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838	29	61.7	423	3	US-09-815-242-13560	Sequence 13560, A	911	29	61.7	980	3	US-10-647-268-2	Sequence 2, Appl
839	29	61.7	423	3	US-10-283-122A-67503	Sequence 67503, A	912	29	61.7	988	5	US-10-647-268-4	Sequence 4, Appl
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841	29	61.7	427	4	US-10-389-566-1658	Sequence 1658, Ap	914	29	61.7	988	5	US-10-647-268-10	Sequence 10, Appl
842	29	61.7	430	4	US-10-282-122A-68578	Sequence 68578, A	915	29	61.7	988	5	US-10-647-268-10	Sequence 10, Appl
843	29	61.7	433	5	US-10-156-761-8681	Sequence 8681, Ap	916	29	61.7	1006	6	US-10-437-963-166775	Sequence 166775, A
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845	29	61.7	441	4	US-10-156-761-13130	Sequence 13130, A	918	29	61.7	1101	4	US-10-424-599-206083	Sequence 206083, A
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848	29	61.7	468	4	US-10-425-115-215400	Sequence 215400, A	921	29	61.7	1212	4	US-10-330-797-3351	Sequence 3351, Ap
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852	29	61.7	485	4	US-10-374-780A-34	Sequence 34, Appl	925	29	61.7	1255	5	US-10-876-066-421	Sequence 421, Appl
853	29	61.7	485	5	US-10-225-066A-236	Sequence 236, App	926	29	61.7	1291	4	US-10-452-024-122	Sequence 122, App
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862	29	61.7	522	4	US-10-042-865-130	Sequence 129, App	935	29	61.7	2026	3	US-10-369-493-12175	Sequence 12175, A
863	29	61.7	522	4	US-10-042-865-130	Sequence 130, App	936	29	61.7	2026	4	US-10-437-963-182758	Sequence 182758, A
864	29	61.7	526	4	US-10-042-865-24	Sequence 24, Appl	937	29	61.7	2323	5	US-10-844-716-6	Sequence 6, Appl
865	29	61.7	530	4	US-10-042-865-131	Sequence 131, App	938	29	61.7	3725	5	US-10-970-944-21	Sequence 21, Appl
866	29	61.7	536	4	US-10-423-115-325875	Sequence 325875, A	939	29	61.7	4590	4	US-10-160-758-13	Sequence 13, Appl
867	29	61.7	541	5	US-10-757-832-3	Sequence 3, Appl	940	29	61.7	4590	4	US-10-160-758-14	Sequence 14, Appl
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870	29	61.7	547	4	US-10-425-114-62055	Sequence 62055, A	943	29	61.7	4590	4	US-10-783-528-93	Sequence 5292, App
871	29	61.7	548	4	US-10-369-493-1659	Sequence 1659, Ap	944	29	61.7	4590	5	US-10-756-149-5292	Sequence 53336, A
872	29	61.7	552	4	US-10-369-493-648	Sequence 648, App	945	29	61.7	4591	5	US-10-450-763-53336	Sequence 31, Appl
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874	29	61.7	560	4	US-10-369-493-19829	Sequence 19829, A	947	29	61.7	179	4	US-10-424-599-212554	Sequence 5610, Ap
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883	29	61.7	604	5	US-10-919-365-1	Sequence 1, Appl	956	29	61.7	9	4	US-10-013-312-1441	Sequence 1441, Ap
884	29	61.7	607	4	US-10-057-789-45	Sequence 45, Appl	957	29	61.7	15	4	US-10-958-216-199	Sequence 199, App
885	29	61.7	607	4	US-10-057-789-45	Sequence 45, Appl	958	29	61.7	15	4	US-10-013-312-2677	Sequence 2677, Ap
886	29	61.7	607	5	US-10-775-204-1156	Sequence 1156, Ap	959	29	61.7	15	4	US-10-013-312-2736	Sequence 2736, Ap
887	29	61.7	607	5	US-10-775-204-1160	Sequence 1160, Ap	960	29	61.7	15	4	US-10-013-312-2750	Sequence 2750, Ap
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903	29	61.7	738	4	US-10-437-963-153555	Sequence 153555, A	976	29	61.7	71	4	US-10-407-866-8	Sequence 8, Appl
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978 28 59.6 71 4 US-10-781-294-13 Sequence 13, Appli
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980 28 59.6 73 4 US-10-156-761-7825 Sequence 7825, Ap
981 28 59.6 73 4 US-10-424-599-187161 Sequence 187161,
982 28 59.6 73 4 US-10-424-599-268811 Sequence 268811,
983 28 59.6 74 4 US-10-424-599-165196 Sequence 165196,
984 28 59.6 76 3 US-09-764-877-1335 Sequence 1335, Ap
985 28 59.6 76 4 US-10-242-515-1335 Sequence 1335, Ap
986 28 59.6 77 4 US-10-425-115-229155 Sequence 229155,
987 28 59.6 80 4 US-10-424-599-185313 Sequence 185313,
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989 28 59.6 81 3 US-09-965-621-26 Sequence 26, Appl
990 28 59.6 81 4 US-10-407-866-26 Sequence 26, Appl
991 28 59.6 81 4 US-10-781-294-26 Sequence 26, Appl
992 28 59.6 84 4 US-10-437-963-164838 Sequence 164838,
993 28 59.6 84 5 US-10-450-763-37845 Sequence 37845, A
994 28 59.6 85 4 US-10-425-115-260166 Sequence 260166,
995 28 59.6 87 4 US-10-437-963-202191 Sequence 202191,
996 28 59.6 89 4 US-10-425-115-341288 Sequence 341288,
997 28 59.6 89 5 US-10-501-282-5172 Sequence 5172, Ap
998 28 59.6 91 4 US-10-335-977-6836 Sequence 6836, Ap
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ALIGNMENTS

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RESULT 1
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; Sequence 43, Application US/09891823
; Publication No. US2002010566A1
; GENERAL INFORMATION:
; APPLICANT: Neeffe, John R.
; APPLICANT: Boux, Leslie J.
; APPLICANT: Winnett, Mark T.
; APPLICANT: Goldstone, Stephen E.
; APPLICANT: Siegel, Marvin
; TITLE OF INVENTION: HUMAN PAPILLOMA VIRUS TREATMENT
; FILE REFERENCE: 12071-003001
; CURRENT APPLICATION NUMBER: US/09/891,823
; CURRENT FILING DATE: 2001-10-19
; PRIOR APPLICATION NUMBER: US 60/214,202
; PRIOR FILING DATE: 2000-06-26
; NUMBER OF SEQ ID NOS: 140
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 43
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Human papilloma virus
US-09-891-823-43

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Best Local Similarity 100.0%; Pred. No. 0.012;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db      1 HVDIRTTLED 9

RESULT 2
US-10-365-908-43
; Sequence 43, Application US/10365908
; Publication No. US20030170268A1
; GENERAL INFORMATION:
; APPLICANT: Neeffe, John R.
; APPLICANT: Boux, Leslie J.
; APPLICANT: Winnett, Mark T.
; APPLICANT: Goldstone, Stephen E.
; APPLICANT: Siegel, Marvin
; TITLE OF INVENTION: HUMAN PAPILLOMA VIRUS TREATMENT
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; FILE REFERENCE: 12071-003001
; CURRENT APPLICATION NUMBER: US/10/365,908
; CURRENT FILING DATE: 2003-02-13
; PRIOR APPLICATION NUMBER: US/09/891,823
; PRIOR FILING DATE: 2001-10-19
; PRIOR APPLICATION NUMBER: US 60/214,202
; PRIOR FILING DATE: 2000-06-26
; NUMBER OF SEQ ID NOS: 140
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 43
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Human papilloma virus
US-10-365-908-43

Query Match      100.0%; Score 47; DB 4; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.012;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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Db      1 HVDIRTTLED 9

RESULT 3
US-10-871-138-43
; Sequence 43, Application US/10871138
; Publication No. US20040235741A1
; GENERAL INFORMATION:
; APPLICANT: Neeffe, John R.
; APPLICANT: Boux, Leslie J.
; APPLICANT: Winnett, Mark T.
; APPLICANT: Goldstone, Stephen E.
; APPLICANT: Siegel, Marvin
; TITLE OF INVENTION: HUMAN PAPILLOMA VIRUS TREATMENT
; FILE REFERENCE: 12071-003001
; CURRENT APPLICATION NUMBER: US/10/871,138
; CURRENT FILING DATE: 2004-06-18
; PRIOR APPLICATION NUMBER: US/09/891,823
; PRIOR FILING DATE: 2001-06-26
; PRIOR APPLICATION NUMBER: US 60/214,202
; PRIOR FILING DATE: 2000-06-26
; NUMBER OF SEQ ID NOS: 140
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 43
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Human papilloma virus
US-10-871-138-43

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Best Local Similarity 100.0%; Pred. No. 0.012;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1 HVDIRTTLED 9
Db      1 HVDIRTTLED 9

RESULT 4
US-10-648-547-68
; Sequence 68, Application US/10648547
; Publication No. US20040147044A1
; GENERAL INFORMATION:
; APPLICANT: Mittleman, Abraham
; APPLICANT: Kanduc, Darja
; TITLE OF INVENTION: Improved Antigens
; FILE REFERENCE: 12354/9
; CURRENT APPLICATION NUMBER: US/10/648,547
; CURRENT FILING DATE: 2003-08-25
; PRIOR APPLICATION NUMBER: 10/306,541
; PRIOR FILING DATE: 11-25-2002
; PRIOR APPLICATION NUMBER: 60/333,249
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PRIOR FILING DATE: 11-23-2001
NUMBER OF SEQ ID NOS: 108
SOFTWARE: WordPerfect 8.0 for Windows
SEQ ID NO: 68
LENGTH: 15
TYPE: PRT
ORGANISM: human papillomavirus
US-10-648-547-68

Query Match 100.0%; Score 47; DB 4; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.019;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 HVDIRTLED 9
DB 2 HVDIRTLED 10

RESULT 5
US-10-648-547-78
Sequence 78, Application US/10648547
Publication No. US20040147044A1
GENERAL INFORMATION:
APPLICANT: Mitelman, Abraham
APPLICANT: Kanduc, Darja
TITLE OF INVENTION: Improved Antigens
FILE REFERENCE: 12354/9
CURRENT APPLICATION NUMBER: US/10/648,547
CURRENT FILING DATE: 2003-08-25
PRIOR APPLICATION NUMBER: 10/306,541
PRIOR FILING DATE: 11-25-2002
PRIOR APPLICATION NUMBER: 60/333,249
PRIOR FILING DATE: 11-23-2001
NUMBER OF SEQ ID NOS: 108
SOFTWARE: WordPerfect 8.0 for Windows
SEQ ID NO: 78
LENGTH: 15
TYPE: PRT
ORGANISM: human papillomavirus
US-10-648-547-78

Query Match 100.0%; Score 47; DB 4; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.019;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 HVDIRTLED 9
DB 1 HVDIRTLED 9

RESULT 6
US-10-648-547-90
Sequence 90, Application US/10648547
Publication No. US20040147044A1
GENERAL INFORMATION:
APPLICANT: Mitelman, Abraham
APPLICANT: Kanduc, Darja
TITLE OF INVENTION: Improved Antigens
FILE REFERENCE: 12354/9
CURRENT APPLICATION NUMBER: US/10/648,547
CURRENT FILING DATE: 2003-08-25
PRIOR APPLICATION NUMBER: 10/306,541
PRIOR FILING DATE: 11-25-2002
PRIOR APPLICATION NUMBER: 60/333,249
PRIOR FILING DATE: 11-23-2001
NUMBER OF SEQ ID NOS: 108
SOFTWARE: WordPerfect 8.0 for Windows
SEQ ID NO: 90
LENGTH: 15
TYPE: PRT
ORGANISM: human papillomavirus
US-10-648-547-90

Query Match 100.0%; Score 47; DB 4; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.019;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 HVDIRTLED 9
DB 6 HVDIRTLED 14

RESULT 7
US-10-648-547-97
Sequence 97, Application US/10648547
Publication No. US20040147044A1
GENERAL INFORMATION:
APPLICANT: Mitelman, Abraham
APPLICANT: Kanduc, Darja
TITLE OF INVENTION: Improved Antigens
FILE REFERENCE: 12354/9
CURRENT APPLICATION NUMBER: US/10/648,547
CURRENT FILING DATE: 2003-08-25
PRIOR APPLICATION NUMBER: 10/306,541
PRIOR FILING DATE: 11-25-2002
PRIOR APPLICATION NUMBER: 60/333,249
PRIOR FILING DATE: 11-23-2001
NUMBER OF SEQ ID NOS: 108
SOFTWARE: WordPerfect 8.0 for Windows
SEQ ID NO: 97
LENGTH: 15
TYPE: PRT
ORGANISM: human papillomavirus
US-10-648-547-97

Query Match 100.0%; Score 47; DB 4; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.019;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 HVDIRTLED 9
DB 3 HVDIRTLED 11

RESULT 8
US-10-476-570-49
Sequence 49, Application US/10476570
Publication No. US20040170644A1
GENERAL INFORMATION:
APPLICANT: COMMISSARIAT A L'ENERGIE ATOMIQUE
APPLICANT: INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE
APPLICANT: MAILLIER, Bernard
APPLICANT: BOURGAULT-VILLADA, Isabelle
APPLICANT: POUILLET-MORATILLE, Sandra
TITLE OF INVENTION: Mixture of peptides derived from B6 and/or E7
FILE REFERENCE: 45646-5071-US
CURRENT APPLICATION NUMBER: US/10/476,570
CURRENT FILING DATE: 2003-11-04
PRIOR APPLICATION NUMBER: PCT/FR02/01533
PRIOR FILING DATE: 2002-05-03
PRIOR APPLICATION NUMBER: FR 01 05980
PRIOR FILING DATE: 2001-05-04
NUMBER OF SEQ ID NOS: 63
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO: 49
LENGTH: 15
TYPE: PRT
ORGANISM: artificial sequence
FEATURE:
OTHER INFORMATION: Description of the artificial sequence: peptide E7 67-81
US-10-476-570-49

Query Match 100.0%; Score 47; DB 4; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.019;

Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 HVDIRTTLED 9
|||||

Db 7 HVDIRTTLED 15

RESULT 9
US-10-476-570-50

; Sequence 50, Application US/10476570
; Publication No. US20040170644A1

; GENERAL INFORMATION:

; APPLICANT: COMMISSARIAT A L'ENERGIE ATOMIQUE

; APPLICANT: INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE

; APPLICANT: MAILLIERE, Bernard

; APPLICANT: BOURGAULT-VILLADA, Isabelle

; APPLICANT: POUVELLE-MORATILLE, Sandra

; APPLICANT: GUILLET, Jean-Gerard

; TITLE OF INVENTION: Mixture of peptides derived from E6 and/or E7

; FILE REFERENCE: 45636-5071-US

; CURRENT APPLICATION NUMBER: US/10/476,570

; PRIOR FILING DATE: 2003-11-04

; PRIOR APPLICATION NUMBER: PCT/FR02/01533

; PRIOR FILING DATE: 2002-05-03

; PRIOR APPLICATION NUMBER: FR 01 05980

; PRIOR FILING DATE: 2001-05-04

; NUMBER OF SEQ ID NOS: 63

; SOFTWARE: PatentIn Ver. 2.1

; SEQ ID NO 50

; LENGTH: 15

; TYPE: PRT

; ORGANISM: artificial sequence

; FEATURE:

; OTHER INFORMATION: Description of the artificial sequence: peptide E7 72-86

US-10-476-570-50

Query Match 100.0%; Score 47; DB 4; Length 15;

Best Local Similarity 100.0%; Pred. No. 0.019;

Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 HVDIRTTLED 9
|||||

Db 2 HVDIRTTLED 10

RESULT 10
US-10-306-541-68
; Sequence 68, Application US/10306541
; Publication No. US20040171081A1

; GENERAL INFORMATION:

; APPLICANT: Mittelman, Abraham

; APPLICANT: Kanduc, Darja

; TITLE OF INVENTION: Improved Antigens

; FILE REFERENCE: 12354/4

; CURRENT APPLICATION NUMBER: US/10/306,541

; PRIOR FILING DATE: 2003-11-25

; PRIOR APPLICATION NUMBER: 60/333,249

; PRIOR FILING DATE: 2001-11-23

; NUMBER OF SEQ ID NOS: 108

; SOFTWARE: WordPerfect 8.0 for Windows

; SEQ ID NO 68

; LENGTH: 15

; TYPE: PRT

; ORGANISM: human papillomavirus

US-10-306-541-68

Query Match 100.0%; Score 47; DB 4; Length 15;

Best Local Similarity 100.0%; Pred. No. 0.019;

Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 HVDIRTTLED 9
|||||

Db 2 HVDIRTTLED 10

RESULT 11
US-10-306-541-78

; Sequence 78, Application US/10306541

; Publication No. US20040171081A1

; GENERAL INFORMATION:

; APPLICANT: Mittelman, Abraham

; APPLICANT: Kanduc, Darja

; TITLE OF INVENTION: Improved Antigens

; FILE REFERENCE: 12354/4

; CURRENT APPLICATION NUMBER: US/10/306,541

; PRIOR FILING DATE: 2003-11-25

; PRIOR APPLICATION NUMBER: 60/333,249

; PRIOR FILING DATE: 2001-11-23

; NUMBER OF SEQ ID NOS: 108

; SOFTWARE: WordPerfect 8.0 for Windows

; SEQ ID NO 78

; LENGTH: 15

; TYPE: PRT

; ORGANISM: human papillomavirus

US-10-306-541-78

Query Match 100.0%; Score 47; DB 4; Length 15;

Best Local Similarity 100.0%; Pred. No. 0.019;

Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 HVDIRTTLED 9
|||||

Db 1 HVDIRTTLED 9

RESULT 12
US-10-306-541-90
; Sequence 90, Application US/10306541
; Publication No. US20040171081A1

; GENERAL INFORMATION:

; APPLICANT: Mittelman, Abraham

; APPLICANT: Kanduc, Darja

; TITLE OF INVENTION: Improved Antigens

; FILE REFERENCE: 12354/4

; CURRENT APPLICATION NUMBER: US/10/306,541

; PRIOR FILING DATE: 2003-11-25

; PRIOR APPLICATION NUMBER: 60/333,249

; PRIOR FILING DATE: 2001-11-23

; NUMBER OF SEQ ID NOS: 108

; SOFTWARE: WordPerfect 8.0 for Windows

; SEQ ID NO 90

; LENGTH: 15

; TYPE: PRT

; ORGANISM: human papillomavirus

US-10-306-541-90

Query Match 100.0%; Score 47; DB 4; Length 15;

Best Local Similarity 100.0%; Pred. No. 0.019;

Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 HVDIRTTLED 9
|||||

Db 6 HVDIRTTLED 14

RESULT 13
US-10-306-541-97
; Sequence 97, Application US/10306541
; Publication No. US20040171081A1

; GENERAL INFORMATION:

; APPLICANT: Mittelman, Abraham

; APPLICANT: Kanduc, Darja

; TITLE OF INVENTION: Improved Antigens

; FILE REFERENCE: 12354/4

; CURRENT APPLICATION NUMBER: US/10/306,541

CURRENT FILING DATE: 2003-11-25
PRIOR APPLICATION NUMBER: 60/333,249
PRIOR FILING DATE: 2001-11-23
NUMBER OF SEQ ID NOS: 108
SOFTWARE: WordPerfect 8.0 for Windows
SEQ ID NO 97
LENGTH: 15
TYPE: PRT
ORGANISM: human papillomavirus
US-10-306-541-97

Query Match 100.0%; Score 47; DB 4; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.019;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 HVDIRTLIED 9
Db 3 HVDIRTLIED 11

RESULT 14

US-10-432-465-50
Sequence 50, Application US/10432465
Publication No. US20040091479A1
GENERAL INFORMATION:
APPLICANT: Nieland, John
APPLICANT: Kaufmann, Andreas
APPLICANT: Kather, Angela
APPLICANT: Schinz, Manuela
TITLE OF INVENTION: T-Cell Epitopes of the Papillomavirus L1
TITLE OF INVENTION: Protein and E7 Protein and Their Use in Diagnosis and
TITLE OF INVENTION: Therapy
FILE REFERENCE: 50125/077001
CURRENT APPLICATION NUMBER: US/10/432,465
CURRENT FILING DATE: 2003-12-10
PRIOR APPLICATION NUMBER: PCT/EP01/14037
PRIOR FILING DATE: 2001-11-30
PRIOR APPLICATION NUMBER: DE 10059631.2
PRIOR FILING DATE: 2000-12-01
NUMBER OF SEQ ID NOS: 116
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 50
LENGTH: 20
TYPE: PRT
ORGANISM: Human papillomavirus
US-10-432-465-50

Query Match 100.0%; Score 47; DB 4; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.026;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 HVDIRTLIED 9
Db 7 HVDIRTLIED 15

RESULT 15

US-10-890-526-75
Sequence 75, Application US/10890526
Publication No. US20040258708A1
GENERAL INFORMATION:
APPLICANT: Jochims, Ingrid
APPLICANT: Nieland, John
TITLE OF INVENTION: Cytotoxic T-Cell Epitopes of the
TITLE OF INVENTION: Papilloma Virus L1-Protein and Use Thereof in Diagnosis and
TITLE OF INVENTION: Therapy
FILE REFERENCE: 50125/036001
CURRENT APPLICATION NUMBER: US/10/890,526
CURRENT FILING DATE: 2004-07-13
PRIOR APPLICATION NUMBER: US/09/980,177
PRIOR FILING DATE: 2002-05-02
PRIOR APPLICATION NUMBER: PCT/EP00/05006
PRIOR FILING DATE: 2000-05-31

PRIOR APPLICATION NUMBER: DE 1992519.1
PRIOR FILING DATE: 1999-06-01
NUMBER OF SEQ ID NOS: 77
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 75
LENGTH: 20
TYPE: PRT
ORGANISM: Human papillomavirus type 16
US-10-890-526-75

Query Match 100.0%; Score 47; DB 5; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.026;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 HVDIRTLIED 9
Db 7 HVDIRTLIED 15

RESULT 16

US-10-476-570-17
Sequence 17, Application US/10476570
Publication No. US20040170644A1
GENERAL INFORMATION:
APPLICANT: COMMISSARIAT A L'ENERGIE ATOMIQUE
APPLICANT: INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE
APPLICANT: MAILLIERE, Bernard
APPLICANT: BOURGAULT-VILLADA, Isabelle
APPLICANT: POUVELLE-MORATILLE, Sandra
APPLICANT: GUILLET, Jean-Gerard
TITLE OF INVENTION: Mixture of peptides derived from B6 and/or E7
TITLE OF INVENTION: papillomavirus proteins and uses thereof
FILE REFERENCE: 45636-5071-US
CURRENT APPLICATION NUMBER: US/10/476,570
CURRENT FILING DATE: 2003-11-04
PRIOR APPLICATION NUMBER: PCT/FR02/01533
PRIOR FILING DATE: 2002-05-03
PRIOR APPLICATION NUMBER: FR 01 05980
PRIOR FILING DATE: 2001-05-04
NUMBER OF SEQ ID NOS: 63
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 17
LENGTH: 23
TYPE: PRT
ORGANISM: artificial sequence
FEATURE:
OTHER INFORMATION: Description of the artificial sequence: peptide E7 65-87
US-10-476-570-17

Query Match 100.0%; Score 47; DB 4; Length 23;
Best Local Similarity 100.0%; Pred. No. 0.03;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 HVDIRTLIED 9
Db 9 HVDIRTLIED 17

RESULT 17

US-09-728-466-1
Sequence 1, Application US/09728466
Patent No. US20010029022A1
GENERAL INFORMATION:
APPLICANT: Fisher, Christopher
APPLICANT: He, Manxia
TITLE OF INVENTION: Methods to Identify Anti-Viral Agents
FILE REFERENCE: 28341/6216
CURRENT APPLICATION NUMBER: US/09/728,466
CURRENT FILING DATE: 2000-12-01
PRIOR APPLICATION NUMBER: 09/382,616
PRIOR FILING DATE: 1999-08-25
NUMBER OF SEQ ID NOS: 43
SOFTWARE: PatentIn Ver. 2.0

SEQ ID NO 1
LENGTH: 98
TYPE: PRT
ORGANISM: Papillomavirus sv1v1agi
US-09-728-466-1

Query Match 100.0%; Score 47; DB 3; Length 98;
Best Local Similarity 100.0%; Pred. NO. 0.15; Indels 0; Gaps 0;
Matches 9; Conservative 0; Mismatches 0;

QY 1 HVDIRTTLED 9
|||
73 HVDIRTTLED 81

RESULT 18
US-09-820-765-4
Sequence 4, Application US/09820765
Publication No. US20020039584A1
GENERAL INFORMATION:
APPLICANT: BURGER, Alexander
HALLEK, Michael

TITLE OF INVENTION: PAPILLOMA VIRUS CAPSOMERE VACCINE
FORMULATIONS AND METHODS OF USE

NUMBER OF SEQUENCES: 28

CORRESPONDENCE ADDRESSES:
ADDRESSEE: FOLEY & LARDNER
STREET: 3000 K Street, N.W.
CITY: Washington
STATE: D.C.
COUNTRY: U.S.A.
ZIP: 20007-5109

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30

CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/820,765
FILING DATE: 30-Mar-2001
CLASSIFICATION: <Unknown>

PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 09/026,896
FILING DATE: 20-FEB-1998
ATTORNEY/AGENT INFORMATION:
NAME: Sandercock, Colin G.
REGISTRATION NUMBER: 31,298
REFERENCE/DOCKET NUMBER: 37067/102

TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 672-5300
TELEFAX: (202) 672-5399

INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 98 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
SEQUENCE DESCRIPTION: SEQ ID NO: 4:
US-09-820-765-4

Query Match 100.0%; Score 47; DB 3; Length 98;
Best Local Similarity 100.0%; Pred. NO. 0.15; Indels 0; Gaps 0;
Matches 9; Conservative 0; Mismatches 0;

QY 1 HVDIRTTLED 9
|||
73 HVDIRTTLED 81

RESULT 19
US-09-824-017-4
Sequence 4, Application US/09824017
Publication No. US20020197668A1

GENERAL INFORMATION:

APPLICANT: BURGER, Alexander
HALLEK, Michael

TITLE OF INVENTION: PAPILLOMA VIRUS CAPSOMERE VACCINE
FORMULATIONS AND METHODS OF USE

NUMBER OF SEQUENCES: 28

CORRESPONDENCE ADDRESSES:
ADDRESSEE: FOLEY & LARDNER
STREET: 3000 K Street, N.W.
CITY: Washington
STATE: D.C.
COUNTRY: U.S.A.
ZIP: 20007-5109

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30

CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/824,017
FILING DATE: 03-Apr-2001
CLASSIFICATION: 424

PRIOR APPLICATION DATA:
APPLICATION NUMBER: 09/026,896
FILING DATE: 1998-02-20
ATTORNEY/AGENT INFORMATION:
NAME: Sandercock, Colin G.
REGISTRATION NUMBER: 31,298
REFERENCE/DOCKET NUMBER: 37067/102

TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 672-5300
TELEFAX: (202) 672-5399

INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 98 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
SEQUENCE DESCRIPTION: SEQ ID NO: 4:
US-09-824-017-4

Query Match 100.0%; Score 47; DB 3; Length 98;
Best Local Similarity 100.0%; Pred. NO. 0.15; Indels 0; Gaps 0;
Matches 9; Conservative 0; Mismatches 0;

QY 1 HVDIRTTLED 9
|||
73 HVDIRTTLED 81

RESULT 20
US-09-986-118A-4
Sequence 4, Application US/09986118A
Publication No. US20030021806A1
GENERAL INFORMATION:

APPLICANT: BURGER, Alexander
HALLEK, Michael
TITLE OF INVENTION: PAPILLOMA VIRUS CAPSOMERE VACCINE
FORMULATIONS AND METHODS OF USE

NUMBER OF SEQUENCES: 28
CORRESPONDENCE ADDRESSES:
ADDRESSEE: FOLEY & LARDNER
STREET: 3000 K Street, N.W.
CITY: Washington
STATE: D.C.
COUNTRY: U.S.A.
ZIP: 20007-5109

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/986,118A
FILING DATE: 07-NO. US20030021806A1-2001
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 09/026,896
FILING DATE: <Unknown>
ATTORNEY/AGENT INFORMATION:
NAME: Sandercock, Colin G.
REGISTRATION NUMBER: 31,298
REFERENCE/DOCKET NUMBER: 37067/102
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 672-5300
TELEFAX: (202) 672-5399
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 98 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
SEQUENCE DESCRIPTION: SEQ ID NO: 4:
US-09-986-118A-4

Query Match 100.0%; Score 47; DB 3; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.15; Indels 0; Gaps 0;
Matches 9; Conservative 0; Mismatches 0;

QY 1 HYDIRTLED 9
Db 73 HYDIRTLED 81

RESULT 21
US-10-267-311-8
Sequence 8, Application US/10267311
Publication No. US20030050469A1
GENERAL INFORMATION:
APPLICANT: Siegel, Marvin
APPLICANT: Chu, N. Randall
APPLICANT: Mizzen, Lee A.
TITLE OF INVENTION: INDUCTION OF A TH1-LIKE RESPONSE IN VITRO
FILE REFERENCE: 12071/002001
CURRENT APPLICATION NUMBER: US/10/267,311
CURRENT FILING DATE: 2002-10-09
PRIOR APPLICATION NUMBER: US/09/613,303
PRIOR FILING DATE: 2000-07-10
PRIOR APPLICATION NUMBER: US 60/143,757
PRIOR FILING DATE: 1999-07-08
NUMBER OF SEQ ID NOS: 55
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 8
LENGTH: 98
TYPE: PRP
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: fusion sequence
US-10-267-311-8

Query Match 100.0%; Score 47; DB 4; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.15; Indels 0; Gaps 0;
Matches 9; Conservative 0; Mismatches 0;

QY 1 HYDIRTLED 9
Db 73 HYDIRTLED 81

RESULT 22
US-10-177-390-8
Sequence 8, Application US/10177390
Publication No. US20030143743A1
GENERAL INFORMATION:
APPLICANT: Schuler, Gerold
APPLICANT: N.V. Antwerp Innovatlecentrum

TITLE OF INVENTION: Improved Transfection of Eucaryotic Cells with Linear
TITLE OF INVENTION: Polynucleotides by Electroporation
FILE REFERENCE: 021505wo/JH/ml
CURRENT APPLICATION NUMBER: US/10/177,390
CURRENT FILING DATE: 2002-06-20
NUMBER OF SEQ ID NOS: 34
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 8
LENGTH: 98
TYPE: PRP
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: fragment of
OTHER INFORMATION: human papilloma virus type 16 E7 gene
US-10-177-390-8

Query Match 100.0%; Score 47; DB 4; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.15; Indels 0; Gaps 0;
Matches 9; Conservative 0; Mismatches 0;

QY 1 HYDIRTLED 9
Db 73 HYDIRTLED 81

RESULT 23
US-10-201-764-19
Sequence 19, Application US/10201764
Publication No. US20030166140A1
GENERAL INFORMATION:
APPLICANT: CHEN, SI-YI AND ZHAOYANG, YOU
TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR ANTIGENS WHICH ELICIT AN
TITLE OF INVENTION: IMMUNE RESPONSE
FILE REFERENCE: TBA
CURRENT APPLICATION NUMBER: US/10/201,764
CURRENT FILING DATE: 2002-07-22
PRIOR APPLICATION NUMBER: US/09/566,420
PRIOR FILING DATE: 2000-05-05
PRIOR APPLICATION NUMBER: 60/132,752
PRIOR FILING DATE: 1999-05-06
PRIOR APPLICATION NUMBER: 60/132,750
PRIOR FILING DATE: 1999-05-06
NUMBER OF SEQ ID NOS: 19
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 19
LENGTH: 98
TYPE: PRP
ORGANISM: Human papillomavirus type E7
US-10-201-764-19

Query Match 100.0%; Score 47; DB 4; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.15; Indels 0; Gaps 0;
Matches 9; Conservative 0; Mismatches 0;

QY 1 HYDIRTLED 9
Db 73 HYDIRTLED 81

RESULT 24
US-10-654-129-4
Sequence 4, Application US/10654129
Publication No. US2004008161A1
GENERAL INFORMATION:
APPLICANT: BURGER, Alexander
APPLICANT: HALLEK, Michael
TITLE OF INVENTION: PAPILLOMA VIRUS CAPSOMERE VACCINE
NUMBER OF SEQUENCES: 28
CORRESPONDENCE ADDRESS:
ADDRESSER: FOLEY & LARDNER
STREET: 3000 K Street, N.W.
CITY: Washington

STATE: D.C.
COUNTRY: U.S.A.
ZIP: 20007-5109
COMPUTER READABLE FORM:
MEDIUM TYPE: floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/654,129
FILING DATE: 04-Sep-2003
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/09/824,017
FILING DATE: 03-Apr-2001
APPLICATION NUMBER: 09/026,896
FILING DATE: 1998-02-20
ATTORNEY/AGENT INFORMATION:
NAME: Sandercock, Colin G.
REGISTRATION NUMBER: 31,298
REFERENCE/DOCKET NUMBER: 37067/102
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 672-5300
TELEFAX: (202) 672-5399
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 98 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
SEQUENCE DESCRIPTION: SEQ ID NO: 4:
US-10-654-129-4

Query Match 100.0%; Score 47; DB 4; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.15;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 HVDIRTIED 9
Db 73 HVDIRTIED 81

RESULT 25
US-10-681-410-19
Sequence 19, Application US/10681410
Publication No. US20040096426a1
GENERAL INFORMATION:
APPLICANT: CHEN, SI-YI AND ZHAOYANG, YOU
TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR ANTIGENS WHICH ELICIT AN
FILE REFERENCE: TBA
CURRENT APPLICATION NUMBER: US/10/681,410
CURRENT FILING DATE: 2003-10-08
PRIOR APPLICATION NUMBER: US/10/201,764
PRIOR FILING DATE: 2002-07-22
PRIOR APPLICATION NUMBER: US/09/566,420
PRIOR FILING DATE: 2000-05-05
PRIOR APPLICATION NUMBER: 60/132,752
PRIOR FILING DATE: 1999-05-06
PRIOR APPLICATION NUMBER: 60/132,750
PRIOR FILING DATE: 1999-05-06
NUMBER OF SEQ ID NOS: 19
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 19
LENGTH: 98
TYPE: PRT
ORGANISM: Human papillomavirus type E7
US-10-681-410-19

Query Match 100.0%; Score 47; DB 4; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.15;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 HVDIRTIED 9
Db 73 HVDIRTIED 81

RESULT 26
US-10-772-988-3
Sequence 3, Application US/10772988
Publication No. US20040139485A1
GENERAL INFORMATION:
APPLICANT: Thorgelsson, Snorri S.
APPLICANT: Woltach, Joseph T.
APPLICANT: Zhang, Minhuang
TITLE OF INVENTION: CDNA ENCODING A GENE BOG (B5T OVER-EXPRESSED GENE) AND ITS PROTEIN
FILE REFERENCE: 11613.29USW1
CURRENT APPLICATION NUMBER: US/10/772,988
CURRENT FILING DATE: 2004-02-05
PRIOR APPLICATION NUMBER: US/09/637,746
PRIOR FILING DATE: 2000-08-11
PRIOR APPLICATION NUMBER: PCT/US99/04142
PRIOR FILING DATE: 1999-02-25
PRIOR APPLICATION NUMBER: US 60/079,567
PRIOR FILING DATE: 1998-03-27
PRIOR APPLICATION NUMBER: US 60/075,922
PRIOR FILING DATE: 1998-02-25
NUMBER OF SEQ ID NOS: 15
SOFTWARE: Patentin version 3.1
SEQ ID NO 3
LENGTH: 98
TYPE: PRT
ORGANISM: Human papillomavirus
US-10-772-988-3

Query Match 100.0%; Score 47; DB 4; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.15;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 HVDIRTIED 9
Db 73 HVDIRTIED 81

RESULT 27
US-10-479-541-5
Sequence 5, Application US/10479541
Publication No. US20040151723A1
GENERAL INFORMATION:
APPLICANT: Kirin Beer Kabushiki Kaisha
TITLE OF INVENTION: Novel E7 antigen epitope from human papillomavirus and
FILE REFERENCE: 137240PX
CURRENT APPLICATION NUMBER: US/10/479,541
CURRENT FILING DATE: 2003-12-04
PRIOR APPLICATION NUMBER: 173803/2001
PRIOR FILING DATE: 2001-06-08
NUMBER OF SEQ ID NOS: 5
SOFTWARE: Patentin Ver. 2.1
SEQ ID NO 5
LENGTH: 98
TYPE: PRT
ORGANISM: Human papillomavirus type 16
US-10-479-541-5

Query Match 100.0%; Score 47; DB 4; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.15;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 HVDIRTIED 9
Db 73 HVDIRTIED 81

RESULT 28
US-10-042-526A-4
; Sequence 4, Application US/10042526A
; Publication No. US20050031636A1
; GENERAL INFORMATION:
; APPLICANT: GISSMANN, et al.
; TITLE OF INVENTION: PAPILLOMA VIRUS CAPSOMERE VACCINE FORMULATIONS AND METHODS OF USE
; FILE REFERENCE: 27013/38150
; CURRENT APPLICATION NUMBER: US/10/042,526A
; PRIOR FILING DATE: 2002-04-29
; PRIOR APPLICATION NUMBER: US 09/632,286
; PRIOR FILING DATE: 2000-08-03
; PRIOR APPLICATION NUMBER: US 08/944,368
; PRIOR FILING DATE: 1997-10-06
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 4
; LENGTH: 98
; TYPE: PRT
; ORGANISM: Human Papilloma Virus
US-10-042-526A-4

Query Match 100.0%; Score 47; DB 5; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.15;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 HYDIRTLED 9
Db 73 HYDIRTLED 81

RESULT 29
US-10-657-399-1
; Sequence 1, Application US/10657399
; Publication No. US20050032038A1
; GENERAL INFORMATION:
; APPLICANT: Fisher, Christopher
; APPLICANT: He, Manxia
; TITLE OF INVENTION: Methods to identify Anti-Viral Agents
; FILE REFERENCE: 28341/6216
; CURRENT APPLICATION NUMBER: US/10/657,399
; PRIOR FILING DATE: 2003-09-08
; PRIOR APPLICATION NUMBER: US/09/728,466
; PRIOR FILING DATE: 2000-12-01
; PRIOR APPLICATION NUMBER: 09/382,616
; PRIOR FILING DATE: 1999-08-25
; NUMBER OF SEQ ID NOS: 43
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1
; LENGTH: 98
; TYPE: PRT
; ORGANISM: Papillomavirus gylv1agi
US-10-657-399-1

Query Match 100.0%; Score 47; DB 5; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.15;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 HYDIRTLED 9
Db 73 HYDIRTLED 81

RESULT 30
US-10-858-384-12
; Sequence 12, Application US/10858384
; Publication No. US20050033025A1
; GENERAL INFORMATION:
; APPLICANT: CHOPPIN, JEANINE
; APPLICANT: BOURGAULT VILLADA, ISABELLE
; APPLICANT: GUILLET, JEAN-GERARD
; APPLICANT: CONNAN, FRANCINE
; APPLICANT: FERRIES, ESTELLE

; TITLE OF INVENTION: POLYPEPTIC PROTEIN FRAGMENTS OF THE E6 PROTEIN
; TITLE OF INVENTION: OR E7 OF HPV, THEIR PRODUCTION AND THEIR USE
; TITLE OF INVENTION: PARTICULARLY IN VACCINATION
; FILE REFERENCE: 0508-1037-1
; CURRENT APPLICATION NUMBER: US/10/858,384
; PRIOR FILING DATE: 2004-06-02
; PRIOR APPLICATION NUMBER: FR 9907012
; PRIOR FILING DATE: 1999-06-03
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: PatentIn Ver. 3.2
; SEQ ID NO 12
; LENGTH: 98
; TYPE: PRT
; ORGANISM: Human Papillomavirus
US-10-858-384-12

Query Match 100.0%; Score 47; DB 5; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.15;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 HYDIRTLED 9
Db 73 HYDIRTLED 81

RESULT 31
US-10-484-063-26
; Sequence 26, Application US/10484063
; Publication No. US20050048467A1
; GENERAL INFORMATION:
; APPLICANT: SASTRY, K. JAGANNADHA
; APPLICANT: TORTOLERO-LUNA, GUILLERMO
; APPLICANT: FOLLEN, MICHELE
; TITLE OF INVENTION: METHODS AND COMPOSITIONS RELATING TO HPV-ASSOCIATED
; TITLE OF INVENTION: PRE-CANCEROUS AND CANCEROUS GROWTHS, INCLUDING CIN
; FILE REFERENCE: UTSC:560US
; CURRENT APPLICATION NUMBER: US/10/484,063
; PRIOR FILING DATE: 2004-01-16
; PRIOR APPLICATION NUMBER: PCT/US02/23198
; PRIOR FILING DATE: 2002-07-19
; PRIOR APPLICATION NUMBER: 60/306,809
; PRIOR FILING DATE: 2001-07-20
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 26
; LENGTH: 98
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-10-484-063-26

Query Match 100.0%; Score 47; DB 5; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.15;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 HYDIRTLED 9
Db 73 HYDIRTLED 81

RESULT 32
US-10-343-448-5
; Sequence 5, Application US/10343448
; Publication No. US20050054820A1
; GENERAL INFORMATION:
; APPLICANT: WU, TAYY-CHOOU
; APPLICANT: HUNG, CHIEH-FU
; TITLE OF INVENTION: MOLECULAR VACCINE LINKING AN ENDOPLASMIC RETICULUM CHAPERONE
; TITLE OF INVENTION: POLYPEPTIDE TO AN ANTIGEN
; FILE REFERENCE: 2240-186463
; CURRENT APPLICATION NUMBER: US/10/343,448
; PRIOR FILING DATE: 2003-01-31
; PRIOR APPLICATION NUMBER: PCT/US01/24134
; PRIOR FILING DATE: 2001-08-02

```

; PRIOR APPLICATION NUMBER: US 60/222,902
; PRIOR FILING DATE: 2000-08-03
; NUMBER OF SEQ ID NOS: 7
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 5
; LENGTH: 98
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-343-448-5
```

```

Query Match          100.0%; Score 47; DB 5; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.15;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 HVDIRTLED 9
        |||||||
Db       73 HVDIRTLED 81
```

```

RESULT 33
US-10-679-956-8
; Sequence 8, Application US/10679956
; Publication No. US2005008984A1
; GENERAL INFORMATION:
; APPLICANT: Siegel, Marvin
; APPLICANT: Chu, N. Randall
; APPLICANT: Mizzen, Lee A.
; TITLE OF INVENTION: INDUCTION OF A TH1-LIKE RESPONSE IN VITRO
; FILE REFERENCE: 12071/002001
; CURRENT APPLICATION NUMBER: US/10/679,956
; CURRENT FILING DATE: 2003-10-06
; PRIOR APPLICATION NUMBER: US/09/613,303
; PRIOR FILING DATE: 2000-07-10
; PRIOR APPLICATION NUMBER: US 60/143,757
; PRIOR FILING DATE: 1999-07-08
; NUMBER OF SEQ ID NOS: 55
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 8
; LENGTH: 98
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: fusion sequence
US-10-679-956-8
```

```

Query Match          100.0%; Score 47; DB 5; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.15;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 HVDIRTLED 9
        |||||||
Db       73 HVDIRTLED 81
```

```

RESULT 34
US-10-367-057-17
; Sequence 17, Application US/10367057
; Publication No. US20050100554A1
; GENERAL INFORMATION:
; APPLICANT: Cuthill, Scott;
; APPLICANT: Jackson, Amanda;
; APPLICANT: Lewin, David A.;
; APPLICANT: Ooi, Chean Eng
; TITLE OF INVENTION: Complexes and Methods of Using Same
; FILE REFERENCE: 21402-559
; CURRENT APPLICATION NUMBER: US/10/367,057
; CURRENT FILING DATE: 2003-02-14
; PRIOR APPLICATION NUMBER: 60/256,911
; PRIOR FILING DATE: 2002-02-14
; NUMBER OF SEQ ID NOS: 198
; SOFTWARE: CuraseqIst version 0.1
; SEQ ID NO 17
; LENGTH: 98
```

```

; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-367-057-17
```

```

Query Match          100.0%; Score 47; DB 5; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.15;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 HVDIRTLED 9
        |||||||
Db       73 HVDIRTLED 81
```

```

RESULT 35
US-11-077-939-5
; Sequence 5, Application US/11077939
; Publication No. US20050196865A1
; GENERAL INFORMATION:
; APPLICANT: Frazer, Ian Hector
; TITLE OF INVENTION: Gene Expression System Based on Codon Translation Efficiency
; FILE REFERENCE: 10338-11U1
; CURRENT APPLICATION NUMBER: US/11/077,939
; CURRENT FILING DATE: 2005-03-11
; PRIOR APPLICATION NUMBER: PCT/AU2003/001200
; PRIOR FILING DATE: 2003-09-12
; PRIOR APPLICATION NUMBER: US 60/410410
; PRIOR FILING DATE: 2002-09-13
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 5
; LENGTH: 98
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-11-077-939-5
```

```

Query Match          100.0%; Score 47; DB 6; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.15;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 HVDIRTLED 9
        |||||||
Db       73 HVDIRTLED 81
```

```

RESULT 36
US-10-115-440-7
; Sequence 7, Application US/10115440
; Publication No. US20040086845A1
; GENERAL INFORMATION:
; APPLICANT: HUNG, Chien-Fu
; TITLE OF INVENTION: SUPERIOR MOLECULAR VACCINE LINKING THE TRANSLOCATION DOMAIN OF A
; FILE REFERENCE: 02240-179934
; CURRENT APPLICATION NUMBER: US/10/115,440
; CURRENT FILING DATE: 2002-09-30
; PRIOR APPLICATION NUMBER: US 60/281,003
; PRIOR FILING DATE: 2001-04-04
; PRIOR APPLICATION NUMBER: PCT/US00/41422
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: US 09/501,097
; PRIOR FILING DATE: 2000-02-09
; PRIOR APPLICATION NUMBER: US 09/421,608
; PRIOR FILING DATE: 1999-10-20
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 7
; LENGTH: 99
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-115-440-7
```

```

Query Match          100.0%; Score 47; DB 4; Length 99;
```

Best Local Similarity 100.0%; Pred. No. 0.15; Indels 0; Gaps 0;
Matches 9; Conservative 0; Mismatches 0;

QY 1 HVDIRTLTD 9
Db 73 HVDIRTLTD 81

RESULT 37
US-10-472-724-4

; Sequence 4, Application US/10472724
; Publication No. US20040171806A1
; GENERAL INFORMATION:
; APPLICANT: Cid-Arregui, Angel
; APPLICANT: Zur Hausen, Harald
; TITLE OF INVENTION: Modified HPV E6 and E7 genes and proteins useful for vaccination
; FILE REFERENCE: 4121-154
; CURRENT APPLICATION NUMBER: US/10/472,724
; CURRENT FILING DATE: 2003-09-17
; PRIOR APPLICATION NUMBER: PCT/EP02/03271
; PRIOR FILING DATE: 2002-03-22
; PRIOR APPLICATION NUMBER: EP 01107271.7
; PRIOR FILING DATE: 2001-03-23
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 4
; LENGTH: 111
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Construct
US-10-472-724-4

Query Match 100.0%; Score 47; DB 4; Length 111;
Best Local Similarity 100.0%; Pred. No. 0.16; Indels 0; Gaps 0;
Matches 9; Conservative 0; Mismatches 0;

QY 1 HVDIRTLTD 9
Db 78 HVDIRTLTD 86

RESULT 38
US-10-267-311-12

; Sequence 12, Application US/10267311
; Publication No. US20030050469A1
; GENERAL INFORMATION:
; APPLICANT: Siegel, Marvin
; APPLICANT: Chu, N. Randall
; APPLICANT: Mizzen, Lee A.
; TITLE OF INVENTION: INDUCTION OF A THI-LIKE RESPONSE IN VITRO
; FILE REFERENCE: 12071/002001
; CURRENT APPLICATION NUMBER: US/10/267,311
; CURRENT FILING DATE: 2002-10-09
; PRIOR APPLICATION NUMBER: US/09/613,303
; PRIOR FILING DATE: 2000-07-10
; PRIOR APPLICATION NUMBER: US 60/143,757
; PRIOR FILING DATE: 1999-07-08
; NUMBER OF SEQ ID NOS: 55
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 12
; LENGTH: 121
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: fusion sequence
US-10-267-311-12

Query Match 100.0%; Score 47; DB 4; Length 121;
Best Local Similarity 100.0%; Pred. No. 0.19; Indels 0; Gaps 0;
Matches 9; Conservative 0; Mismatches 0;

QY 1 HVDIRTLTD 9

Db 96 HVDIRTLTD 104

RESULT 39
US-10-679-956-12

; Sequence 12, Application US/10679956
; Publication No. US20050089841A1
; GENERAL INFORMATION:
; APPLICANT: Siegel, Marvin
; APPLICANT: Chu, N. Randall
; APPLICANT: Mizzen, Lee A.
; TITLE OF INVENTION: INDUCTION OF A THI-LIKE RESPONSE IN VITRO
; FILE REFERENCE: 12071/002001
; CURRENT APPLICATION NUMBER: US/10/679,956
; CURRENT FILING DATE: 2003-10-06
; PRIOR APPLICATION NUMBER: US/09/613,303
; PRIOR FILING DATE: 2000-07-10
; PRIOR APPLICATION NUMBER: US 60/143,757
; PRIOR FILING DATE: 1999-07-08
; NUMBER OF SEQ ID NOS: 55
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 12
; LENGTH: 121
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: fusion sequence
US-10-679-956-12

Query Match 100.0%; Score 47; DB 5; Length 121;
Best Local Similarity 100.0%; Pred. No. 0.19; Indels 0; Gaps 0;
Matches 9; Conservative 0; Mismatches 0;

QY 1 HVDIRTLTD 9
Db 96 HVDIRTLTD 104

RESULT 40
US-11-072-288-2

; Sequence 2, Application US/11072288
; Publication No. US20050159386A1
; GENERAL INFORMATION:
; APPLICANT: Kient, Marie-Paule
; APPLICANT: BALLOU, Jean-Marc
; APPLICANT: BIZOUARNE, Nadine
; TITLE OF INVENTION: ANTITUMORAL COMPOSITION BASED ON IMMUNOGENIC
; FILE REFERENCE: 017753-122
; CURRENT APPLICATION NUMBER: US/11/072,288
; CURRENT FILING DATE: 2005-03-07
; PRIOR APPLICATION NUMBER: US/09/462,993
; PRIOR FILING DATE: 2000-04-17
; PRIOR APPLICATION NUMBER: PCT/FR98/01576
; PRIOR FILING DATE: 1998-07-17
; PRIOR APPLICATION NUMBER: FR 97/09152
; PRIOR FILING DATE: 1997-07-18
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: PatentIn Ver. 2.2
; SEQ ID NO 2
; LENGTH: 185
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Derived from human papillomavirus, strain
; OTHER INFORMATION: HPV-16, E7 fusion signals of the rabies
; OTHER INFORMATION: glycoprotein, clone E7*TMR.
US-11-072-288-2

Query Match 100.0%; Score 47; DB 6; Length 185;
Best Local Similarity 100.0%; Pred. No. 0.31; Indels 0; Gaps 0;
Matches 9; Conservative 0; Mismatches 0;

Oy 1 HVDIRTTLED 9
Db 92 HVDIRTTLED 100

RESULT 41
US-10-267-311-35
; Sequence 35, Application US/10267311
; Publication No. US20030050469A1
; GENERAL INFORMATION:
; APPLICANT: Siegel, Marvin
; APPLICANT: Chu, N. Randall
; APPLICANT: Mizzen, Lee A.
; TITLE OF INVENTION: INDUCTION OF A TH1-LIKE RESPONSE IN VITRO
; FILE REFERENCE: 12071/002001
; CURRENT FILING DATE: US/10/267,311
; PRIOR FILING DATE: 2002-10-09
; PRIOR APPLICATION NUMBER: US/09/613,303
; PRIOR FILING DATE: 2000-07-10
; PRIOR APPLICATION NUMBER: US 60/143,757
; PRIOR FILING DATE: 1999-07-08
; NUMBER OF SEQ ID NOS: 55
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 35
; LENGTH: 198
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: fusion sequence
US-10-267-311-35

Query Match 100.0%; Score 47; DB 4; Length 198;
Best Local Similarity 100.0%; Pred. No. 0.34;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Oy 1 HVDIRTTLED 9
Db 173 HVDIRTTLED 181

RESULT 42
US-10-679-956-35
; Sequence 35, Application US/10679956
; Publication No. US20050089841A1
; GENERAL INFORMATION:
; APPLICANT: Siegel, Marvin
; APPLICANT: Chu, N. Randall
; APPLICANT: Mizzen, Lee A.
; TITLE OF INVENTION: INDUCTION OF A TH1-LIKE RESPONSE IN VITRO
; FILE REFERENCE: 12071/002001
; CURRENT FILING DATE: US/10/679,956
; PRIOR FILING DATE: 2003-10-06
; PRIOR APPLICATION NUMBER: US/09/613,303
; PRIOR FILING DATE: 2000-07-10
; PRIOR APPLICATION NUMBER: US 60/143,757
; PRIOR FILING DATE: 1999-07-08
; NUMBER OF SEQ ID NOS: 55
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 35
; LENGTH: 198
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: fusion sequence
US-10-679-956-35

Query Match 100.0%; Score 47; DB 5; Length 198;
Best Local Similarity 100.0%; Pred. No. 0.34;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Oy 1 HVDIRTTLED 9
Db 173 HVDIRTTLED 181

Db 173 HVDIRTTLED 181

RESULT 43
US-10-000-903-1
; Sequence 1, Application US/10000903
; Publication No. US20020182221A1
; GENERAL INFORMATION:
; APPLICANT: Bruck, Claudine
; APPLICANT: Cabezon Silva, Teresa
; APPLICANT: Delisse, Anne-Marie Eva Fernandez
; APPLICANT: Gerard, Catherine Marie Ghislaine
; APPLICANT: Lombardo-Bencheikh, Angela
; TITLE OF INVENTION: Vaccine
; FILE REFERENCE: B45107
; CURRENT FILING DATE: US/10/000,903
; CURRENT FILING DATE: 2001-10-01
; PRIOR FILING DATE: PCT/EP98/05285
; PRIOR FILING DATE: 1998-08-17
; PRIOR APPLICATION NUMBER: GB 9717953.5
; PRIOR FILING DATE: 1997-08-22
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 1
; LENGTH: 220
; TYPE: PRT
; ORGANISM: Homo sapien
US-10-000-903-1

Query Match 100.0%; Score 47; DB 4; Length 220;
Best Local Similarity 100.0%; Pred. No. 0.38;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Oy 1 HVDIRTTLED 9
Db 186 HVDIRTTLED 194

RESULT 44
US-10-000-903-8
; Sequence 8, Application US/10000903
; Publication No. US20020182221A1
; GENERAL INFORMATION:
; APPLICANT: Bruck, Claudine
; APPLICANT: Cabezon Silva, Teresa
; APPLICANT: Delisse, Anne-Marie Eva Fernandez
; APPLICANT: Gerard, Catherine Marie Ghislaine
; APPLICANT: Lombardo-Bencheikh, Angela
; TITLE OF INVENTION: Vaccine
; FILE REFERENCE: B45107
; CURRENT FILING DATE: US/10/000,903
; CURRENT FILING DATE: 2001-10-01
; PRIOR FILING DATE: PCT/EP98/05285
; PRIOR FILING DATE: 1998-08-17
; PRIOR APPLICATION NUMBER: GB 9717953.5
; PRIOR FILING DATE: 1997-08-22
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 8
; LENGTH: 220
; TYPE: PRT
; ORGANISM: Homo sapien
US-10-000-903-8

Query Match 100.0%; Score 47; DB 4; Length 220;
Best Local Similarity 100.0%; Pred. No. 0.38;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Oy 1 HVDIRTTLED 9
Db 186 HVDIRTTLED 194

RESULT 45
US-10-899-771-1
; Sequence 1, Application US/10899771
; Publication No. US20050031638A1
; GENERAL INFORMATION:
; APPLICANT: Dalemans, Wilfried L.J.
; APPLICANT: Gerard, Catherine Marie Ghislaine
; TITLE OF INVENTION: Compositions Comprising Human Papilloma Virus Proteins
; TITLE OF INVENTION: and Fusion Proteins Adjuvanted with a Cpg Oligonucleotide
; FILE REFERENCE: B45124
; CURRENT APPLICATION NUMBER: US/10/899,771
; CURRENT FILING DATE: 2004-07-27
; PRIOR APPLICATION NUMBER: US/09/581,976
; PRIOR FILING DATE: 2000-06-20
; PRIOR APPLICATION NUMBER: PCT/EP98/08563
; PRIOR FILING DATE: 1998-12-18
; PRIOR APPLICATION NUMBER: GB 9727262.9
; PRIOR FILING DATE: 1997-12-24
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 1
; LENGTH: 220
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Chimaeric protein (protein D from Haemophilus
; OTHER INFORMATION: influenzae B and E7 from Human papilloma virus type
; OTHER INFORMATION: 16)
US-10-899-771-1

Query Match 100.0%; Score 47; DB 5; Length 220;
Best Local Similarity 100.0%; Pred. No. 0.38;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 HVDIRTLSD 9
Db 186 HVDIRTLSD 194

RESULT 46
US-10-899-771-8
; Sequence 8, Application US/10899771
; Publication No. US20050031638A1
; GENERAL INFORMATION:
; APPLICANT: Dalemans, Wilfried L.J.
; APPLICANT: Gerard, Catherine Marie Ghislaine
; TITLE OF INVENTION: Compositions Comprising Human Papilloma Virus Proteins
; TITLE OF INVENTION: and Fusion Proteins Adjuvanted with a Cpg Oligonucleotide
; FILE REFERENCE: B45124
; CURRENT APPLICATION NUMBER: US/10/899,771
; CURRENT FILING DATE: 2004-07-27
; PRIOR APPLICATION NUMBER: US/09/581,976
; PRIOR FILING DATE: 2000-06-20
; PRIOR APPLICATION NUMBER: PCT/EP98/08563
; PRIOR FILING DATE: 1998-12-18
; PRIOR APPLICATION NUMBER: GB 9727262.9
; PRIOR FILING DATE: 1997-12-24
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 8
; LENGTH: 220
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Chimaeric protein (protein D from Haemophilus
; OTHER INFORMATION: influenzae B and mutated E7 from Human papilloma
; OTHER INFORMATION: virus type 16)
US-10-899-771-8

Query Match 100.0%; Score 47; DB 5; Length 220;
Best Local Similarity 100.0%; Pred. No. 0.38;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 HVDIRTLSD 9
Db 186 HVDIRTLSD 194

RESULT 47
US-10-000-903-12
; Sequence 12, Application US/10000903
; Publication No. US20020182221A1
; GENERAL INFORMATION:
; APPLICANT: Bruck, Claudine
; APPLICANT: Cabezon Silva, Teresa
; APPLICANT: Delisse, Anne-Marie Eva Bernande
; APPLICANT: Gerard, Catherine Marie Ghislaine
; APPLICANT: Lombardo-Bencheikh, Angela
; TITLE OF INVENTION: Vaccine
; FILE REFERENCE: B45107
; CURRENT APPLICATION NUMBER: US/10/000,903
; CURRENT FILING DATE: 2001-10-01
; PRIOR APPLICATION NUMBER: PCT/EP98/05285
; PRIOR FILING DATE: 1998-08-17
; PRIOR APPLICATION NUMBER: GB 9717953.5
; PRIOR FILING DATE: 1997-08-22
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 12
; LENGTH: 239
; TYPE: PRT
; ORGANISM: Homo sapien
US-10-000-903-12

Query Match 100.0%; Score 47; DB 4; Length 239;
Best Local Similarity 100.0%; Pred. No. 0.41;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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RESULT 48
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; Sequence 12, Application US/10899771
; Publication No. US20050031638A1
; GENERAL INFORMATION:
; APPLICANT: Dalemans, Wilfried L.J.
; APPLICANT: Gerard, Catherine Marie Ghislaine
; TITLE OF INVENTION: Compositions Comprising Human Papilloma Virus Proteins
; TITLE OF INVENTION: and Fusion Proteins Adjuvanted with a Cpg Oligonucleotide
; FILE REFERENCE: B45124
; CURRENT APPLICATION NUMBER: US/10/899,771
; CURRENT FILING DATE: 2004-07-27
; PRIOR APPLICATION NUMBER: US/09/581,976
; PRIOR FILING DATE: 2000-06-20
; PRIOR APPLICATION NUMBER: PCT/EP98/08563
; PRIOR FILING DATE: 1998-12-18
; PRIOR APPLICATION NUMBER: GB 9727262.9
; PRIOR FILING DATE: 1997-12-24
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 12
; LENGTH: 239
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Chimaeric protein (Clyta from Streptococcus
; OTHER INFORMATION: pneumoniae and E7 from Human papilloma virus type
; OTHER INFORMATION: 16)
US-10-899-771-12

Query Match 100.0%; Score 47; DB 5; Length 239;
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Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 205 HVDIRTTLED 213

Search completed: May 5, 2006, 08:29:01
Job time : 63 secs

RESULT 49
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; Sequence 1, Application US/09367309A
; Publication No. US20020081329A1
; GENERAL INFORMATION:
; APPLICANT: MACFARLAN, RODERICK I.
; APPLICANT: MALLIAROS, JIM
; TITLE OF INVENTION: CHELATING IMMUNOSTIMULATING COMPLEXES
; FILE REFERENCE: 01/227/0149
; CURRENT APPLICATION NUMBER: US/09/367,309A
; PRIOR FILING DATE: 1999-08-11
; PRIOR APPLICATION NUMBER: PCT/AU98/00080
; PRIOR FILING DATE: 1998-02-13
; PRIOR APPLICATION NUMBER: AU PO 5178
; PRIOR FILING DATE: 1997-02-19
; NUMBER OF SEQ ID NOS: 6
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
; LENGTH: 266
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-09-367-309A-1

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Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 233 HVDIRTTLED 241

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; Sequence 5, Application US/10115440
; Publication No. US20040086845A1
; GENERAL INFORMATION:
; APPLICANT: WU, Tzyy-Choon
; APPLICANT: HUNG, Chien-Fu
; TITLE OF INVENTION: SUPERIOR MOLECULAR VACCINE LINKING THE TRANSLOCATION DOMAIN OF A
; FILE REFERENCE: 02240-17934
; CURRENT APPLICATION NUMBER: US/10/115,440
; CURRENT FILING DATE: 2002-09-30
; PRIOR APPLICATION NUMBER: US 60/281,003
; PRIOR FILING DATE: 2001-04-04
; PRIOR APPLICATION NUMBER: PCT/US00/41422
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: US 09/501,097
; PRIOR FILING DATE: 2000-02-09
; PRIOR APPLICATION NUMBER: US 09/421,608
; PRIOR FILING DATE: 1999-10-20
; NUMBER OF SEQ ID NOS: 15
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; LENGTH: 289
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-115-440-5

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Db 246 HVDIRTTLED 254

GenCore version 5.1.7
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OM protein - protein search, using bw model

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Title: US-08-170-344-40
Perfect score: 47
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Total number of hits satisfying chosen parameters: 235405

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Post-processing: Minimum Match 0%
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Listing first 1000 summaries

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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5	47	100.0	248	US-10-530-253-3	Sequence 1, Appl1
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119	28	59.6	214	11	US-11-096-568A-20570	Sequence 180, App
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213	27	57.4	229	9	US-10-973-1158-472	Sequence 5, Appl1
214	27	57.4	229	9	US-10-137-873A-472	Sequence 472, App
215	27	57.4	229	9	US-10-152-370-472	Sequence 472, App
216	27	57.4	229	11	US-11-290-153-472	Sequence 472, App
217	27	57.4	232	11	US-11-143-947A-5	Sequence 5, Appl1
218	27	57.4	232	11	US-11-143-947A-5	Sequence 5, Appl1
219	27	57.4	232	11	US-11-143-947A-5	Sequence 5, Appl1
220	27	57.4	232	11	US-11-143-947A-5	Sequence 5, Appl1
221	27	57.4	238	11	US-11-079-463-5825	Sequence 5825, Ap
222	27	57.4	251	9	US-11-172-740-62	Sequence 62, App
223	27	57.4	252	9	US-10-506-454-732	Sequence 232, App
224	27	57.4	254	9	US-11-188-298-16654	Sequence 16654, A
225	27	57.4	254	11	US-10-506-454-1389	Sequence 1389, Ap
226	27	57.4	255	11	US-11-124-368A-318	Sequence 318, App
227	27	57.4	255	11	US-11-096-568A-13556	Sequence 13556, A
228	27	57.4	259	11	US-11-285-818-14	Sequence 14, Appl1
229	27	57.4	261	11	US-11-087-099-11391	Sequence 11391, A
230	27	57.4	264	11	US-11-188-298-21829	Sequence 21829, A
231	27	57.4	272	9	US-10-853-807A-40	Sequence 40, Appl1
232	27	57.4	279	11	US-11-144-947A-500	Sequence 500, App
233	27	57.4	286	11	US-11-055-822-44	Sequence 44, Appl1
234	27	57.4	286	11	US-11-239-674-42	Sequence 42, Appl1
235	27	57.4	295	9	US-10-507-720-36	Sequence 36, Appl1
236	27	57.4	309	11	US-11-188-298-2883	Sequence 2883, Ap
237	27	57.4	313	11	US-11-098-686-10357	Sequence 10357, A
238	27	57.4	317	11	US-11-188-298-6336	Sequence 6336, Ap
239	27	57.4	317	11	US-11-188-298-14623	Sequence 14623, A
240	27	57.4	318	11	US-11-188-298-17492	Sequence 17492, A

241	27	57.4	319	8	US-10-511-937-2976	Sequence 2976, Ap	314	27	57.4	1165	11	US-11-192-219-2	Sequence 2, Appl1
242	27	57.4	319	11	US-11-045-004-179	Sequence 179, App	315	27	57.4	1165	11	US-11-202-330-4	Sequence 4, Appl1
243	27	57.4	325	9	US-10-506-454-1005	Sequence 1005, Ap	316	27	57.4	1268	11	US-11-052-530-A-123	Sequence 123, App
244	27	57.4	329	11	US-11-096-568A-7712	Sequence 7712, Ap	317	27	57.4	1388	9	US-10-821-234-1143	Sequence 1143, Ap
245	27	57.4	330	11	US-11-096-568A-7711	Sequence 7711, Ap	318	27	57.4	1501	11	US-10-793-626-2850	Sequence 2850, Ap
246	27	57.4	331	11	US-11-045-004-360	Sequence 360, App	319	27	57.4	1510	11	US-11-055-822-72	Sequence 72, Appl
247	27	57.4	334	9	US-10-689-742-134	Sequence 134, App	320	27	57.4	1530	11	US-11-045-004-946	Sequence 946, App
248	27	57.4	334	11	US-11-072-175-156	Sequence 156, App	321	27	57.4	1531	11	US-11-103-957-15	Sequence 15, Appl
249	27	57.4	338	11	US-11-216-267-20	Sequence 20, Appl	322	27	57.4	1531	11	US-11-018-868-18	Sequence 18, Appl
250	27	57.4	338	11	US-11-232-382-20	Sequence 20, Appl	323	27	57.4	1642	11	US-11-183-261-40	Sequence 96, Appl
251	27	57.4	338	11	US-11-096-568A-19234	Sequence 19234, A	324	27	57.4	1798	11	US-11-080-991-96	Sequence 29, Appl
252	27	57.4	340	9	US-10-067-974-8	Sequence 8, Appl1	325	27	57.4	2061	11	US-11-077-386-29	Sequence 27, Appl
253	27	57.4	340	11	US-11-055-822-42	Sequence 42, Appl	326	27	57.4	2061	11	US-11-169-084-1179	Sequence 179, App
254	27	57.4	340	11	US-11-096-568A-7710	Sequence 7710, Ap	327	27	57.4	2061	11	US-10-505-928-449	Sequence 49, App
255	27	57.4	340	11	US-11-239-674-40	Sequence 40, Appl	328	27	57.4	3396	11	US-11-183-261-39	Sequence 39, Appl
256	27	57.4	344	11	US-11-096-568A-5493	Sequence 5493, Ap	329	27	57.4	3396	11	US-11-183-261-39	Sequence 1, Appl1
257	27	57.4	358	9	US-10-689-742-170	Sequence 170, App	330	27	57.4	25	11	US-11-149-737-1	Sequence 6822, Ap
258	27	57.4	362	11	US-11-079-463-6078	Sequence 6078, Ap	331	27	57.4	36	9	US-10-467-657-6822	Sequence 26040, A
259	27	57.4	362	11	US-11-087-099-7782	Sequence 7782, Ap	332	27	57.4	78	11	US-11-096-568A-26040	Sequence 26842, A
260	27	57.4	364	11	US-11-096-568A-19233	Sequence 19233, A	333	27	57.4	89	11	US-11-096-568A-26842	Sequence 1129, Ap
261	27	57.4	368	11	US-11-053-185-12	Sequence 12, Appl	334	27	57.4	91	11	US-11-045-004-1129	Sequence 227, App
262	27	57.4	383	11	US-11-072-512-3932	Sequence 3932, Ap	335	27	57.4	92	9	US-10-506-454-227	Sequence 28, Appl
263	27	57.4	385	11	US-11-096-568A-32235	Sequence 32235, A	336	27	57.4	98	9	US-10-530-253-28	Sequence 4, Appl1
264	27	57.4	395	11	US-11-087-099-9540	Sequence 9540, Ap	337	27	57.4	99	9	US-10-703-7998-4	Sequence 15296, A
265	27	57.4	397	11	US-11-045-004-762	Sequence 5289, Ap	338	27	57.4	106	11	US-11-188-298-15296	Sequence 26841, A
266	27	57.4	416	11	US-11-079-463-5289	Sequence 34184, A	339	27	57.4	112	11	US-11-096-568A-26841	Sequence 3042, Ap
267	27	57.4	425	11	US-11-096-568A-34184	Sequence 9, Appl1	340	27	57.4	121	11	US-11-188-298-7821	Sequence 7821, Ap
268	27	57.4	427	11	US-11-265-288-9	Sequence 76, Appl	341	27	57.4	124	11	US-10-467-657-9042	Sequence 26039, A
269	27	57.4	431	11	US-11-055-822-76	Sequence 76, Appl	342	27	57.4	126	9	US-10-467-657-992	Sequence 892, App
270	27	57.4	444	11	US-11-143-943A-7	Sequence 7, Appl1	343	27	57.4	126	9	US-11-096-568A-914	Sequence 914, App
271	27	57.4	444	11	US-11-143-947A-7	Sequence 7, Appl1	344	27	57.4	132	11	US-11-096-568A-1382	Sequence 1382, Ap
272	27	57.4	444	11	US-11-143-966A-7	Sequence 32234, A	345	27	57.4	134	9	US-10-793-626-1382	Sequence 26038, A
273	27	57.4	457	11	US-11-096-568A-32234	Sequence 32234, A	346	27	57.4	136	11	US-11-096-568A-26038	Sequence 6804, Ap
274	27	57.4	464	11	US-11-079-463-7676	Sequence 7676, A	347	27	57.4	138	11	US-11-096-568A-913	Sequence 913, App
275	27	57.4	472	11	US-11-188-298-16687	Sequence 16687, A	348	27	57.4	148	11	US-11-087-099-6804	Sequence 11049, A
276	27	57.4	486	11	US-11-188-298-10804	Sequence 10804, A	349	27	57.4	153	11	US-11-087-099-11049	Sequence 2474, Ap
277	27	57.4	491	8	US-10-511-937-2973	Sequence 2973, Ap	350	27	57.4	153	11	US-11-045-004-2474	Sequence 2161, Ap
278	27	57.4	491	11	US-11-053-185-22	Sequence 22, Appl	351	27	57.4	160	11	US-11-172-740-2161	Sequence 16292, A
279	27	57.4	493	11	US-11-087-099-374	Sequence 374, App	352	27	57.4	170	11	US-11-188-298-16292	Sequence 5774, A
280	27	57.4	505	8	US-10-511-937-2991	Sequence 2991, Ap	353	27	57.4	172	11	US-11-079-463-5774	Sequence 5577, Ap
281	27	57.4	510	11	US-11-096-568A-17589	Sequence 17589, A	354	27	57.4	177	11	US-11-096-568A-5577	Sequence 90, Appl
282	27	57.4	513	11	US-11-096-568A-5482	Sequence 5482, A	355	27	57.4	183	11	US-11-018-868-90	Sequence 10503, A
283	27	57.4	516	11	US-11-096-568A-34183	Sequence 34183, A	356	27	57.4	183	11	US-11-087-099-10503	Sequence 2391, Ap
284	27	57.4	517	11	US-11-072-512-2679	Sequence 2679, Ap	357	27	57.4	183	11	US-11-188-298-11997	Sequence 11997, A
285	27	57.4	526	11	US-11-096-568A-34182	Sequence 34182, A	358	27	57.4	187	11	US-11-072-512-2391	Sequence 6077, App
286	27	57.4	544	11	US-11-096-568A-5491	Sequence 5491, Ap	359	27	57.4	192	11	US-11-087-099-9231	Sequence 9231, Ap
287	27	57.4	571	9	US-10-506-454-152	Sequence 152, App	360	27	57.4	192	11	US-11-045-004-607	Sequence 607, App
288	27	57.4	571	11	US-11-010-229-36	Sequence 36, Appl	361	27	57.4	197	11	US-11-097-749-55	Sequence 55, Appl
289	27	57.4	593	11	US-11-120-308-54	Sequence 54, Appl	362	27	57.4	198	11	US-11-098-686-11318	Sequence 11318, A
290	27	57.4	599	9	US-10-506-454-829	Sequence 829, App	363	27	57.4	199	11	US-11-188-298-4688	Sequence 4688, Ap
291	27	57.4	625	11	US-11-021-441-37	Sequence 37, Appl	364	27	57.4	199	11	US-11-188-298-19789	Sequence 19789, A
292	27	57.4	645	9	US-10-793-626-2984	Sequence 2984, App	365	27	57.4	201	11	US-11-055-822-1132	Sequence 1132, Ap
293	27	57.4	647	11	US-11-109-157A-15	Sequence 15, Appl	366	27	57.4	204	11	US-11-096-568A-3126	Sequence 3126, Ap
294	27	57.4	654	11	US-11-120-308-52	Sequence 52, Appl	367	27	57.4	205	9	US-10-454-437-26	Sequence 26, Appl
295	27	57.4	658	11	US-11-109-157A-43	Sequence 43, Appl	368	27	57.4	208	11	US-11-188-298-10704	Sequence 10704, A
296	27	57.4	664	11	US-11-045-004-2685	Sequence 2685, Ap	369	27	57.4	211	11	US-11-188-298-18354	Sequence 18354, A
297	27	57.4	664	11	US-11-045-004-584	Sequence 584, App	370	27	57.4	220	9	US-10-506-454-1557	Sequence 4496, Ap
298	27	57.4	682	11	US-11-079-463-9316	Sequence 9316, Ap	371	27	57.4	224	11	US-11-188-298-4496	Sequence 14, Appl
299	27	57.4	685	11	US-11-098-686-10574	Sequence 10574, A	372	27	57.4	246	11	US-11-232-006A-14	Sequence 17748, A
300	27	57.4	686	11	US-11-045-004-597	Sequence 597, App	373	27	57.4	250	11	US-11-188-298-17748	Sequence 16289, A
301	27	57.4	735	11	US-11-087-099-8719	Sequence 8719, Ap	374	27	57.4	251	11	US-11-188-298-16289	Sequence 17, App
302	27	57.4	815	9	US-10-523-503-64	Sequence 64, Appl	375	27	57.4	254	11	US-11-167-831-17	Sequence 18, Appl
303	27	57.4	821	11	US-11-045-004-1235	Sequence 1235, Ap	376	27	57.4	254	11	US-11-167-831-18	Sequence 20, Appl
304	27	57.4	825	11	US-11-087-099-1341	Sequence 1341, Ap	377	27	57.4	254	11	US-11-167-831-20	Sequence 22, Appl
305	27	57.4	825	11	US-11-188-298-1365	Sequence 1365, Ap	378	27	57.4	254	11	US-11-167-831-22	Sequence 11791, A
306	27	57.4	951	11	US-11-121-438-14	Sequence 14, Appl	379	27	57.4	254	11	US-11-188-298-11791	Sequence 5576, Ap
307	27	57.4	991	9	US-10-330-773-418	Sequence 418, App	380	27	57.4	257	11	US-11-096-568A-5576	Sequence 9320, Ap
308	27	57.4	993	9	US-10-784-004-1233	Sequence 1233, Ap	381	27	57.4	260	11	US-11-087-099-9320	Sequence 8619, Ap
309	27	57.4	1039	9	US-10-915-002-321	Sequence 321, App	382	27	57.4	265	11	US-11-188-298-8819	Sequence 24104, A
310	27	57.4	1039	9	US-10-915-002-322	Sequence 322, App	383	27	57.4	267	11	US-11-096-568A-3125	Sequence 3125, Ap
311	27	57.4	1039	9	US-10-915-002-323	Sequence 323, App	384	27	57.4	269	11	US-11-096-568A-3125	Sequence 3128, Ap
312	27	57.4	1072	11	US-11-109-157A-13	Sequence 13, Appl	385	27	57.4	269	11	US-11-096-568A-3128	
313	27	57.4	1135	11	US-11-087-099-8583	Sequence 8583, Ap	386	27	57.4	269	11	US-11-096-568A-3128	

387	26	55.3	274	11	US-11-087-099-5881	Sequence 5881, Ap	460	26	55.3	474	9	US-10-523-503-20	Sequence 20, Appl
388	26	55.3	284	11	US-11-096-568A-22867	Sequence 22867, A	461	26	55.3	475	9	US-10-055-877-301	Sequence 301, App
389	26	55.3	286	11	US-11-096-568A-5575	Sequence 5575, Ap	462	26	55.3	477	9	US-10-511-989-169	Sequence 169, App
390	26	55.3	286	11	US-11-096-568A-24103	Sequence 24103, A	463	26	55.3	481	11	US-11-188-298-18176	Sequence 18176, A
391	26	55.3	288	11	US-11-172-740-1946	Sequence 1946, Ap	464	26	55.3	488	11	US-11-188-298-3239	Sequence 3239, Ap
392	26	55.3	290	11	US-11-045-004-1811	Sequence 1811, Ap	465	26	55.3	488	11	US-11-188-298-18633	Sequence 18633, A
393	26	55.3	295	11	US-11-188-298-17936	Sequence 17936, A	466	26	55.3	494	11	US-11-096-568A-7149	Sequence 7149, Ap
394	26	55.3	296	11	US-11-045-004-1817	Sequence 1817, Ap	467	26	55.3	499	9	US-10-714-995-42	Sequence 42, Appl
395	26	55.3	306	11	US-11-188-298-3535	Sequence 3535, Ap	468	26	55.3	500	11	US-11-264-026-2	Sequence 2, Appl1
396	26	55.3	306	11	US-11-045-004-844	Sequence 844, App	469	26	55.3	508	11	US-11-024-953-467	Sequence 467, App
397	26	55.3	307	11	US-11-098-686-10143	Sequence 10143, A	470	26	55.3	511	11	US-11-188-298-16717	Sequence 16717, A
398	26	55.3	308	11	US-11-096-568A-22866	Sequence 22866, A	471	26	55.3	512	11	US-11-096-568A-7148	Sequence 7148, Ap
399	26	55.3	312	11	US-11-079-463-10396	Sequence 10396, A	472	26	55.3	514	11	US-11-188-298-17286	Sequence 17286, A
400	26	55.3	316	11	US-11-188-298-2012	Sequence 2012, Ap	473	26	55.3	515	11	US-11-096-568A-9173	Sequence 9173, Ap
401	26	55.3	316	11	US-11-188-298-12862	Sequence 12862, A	474	26	55.3	515	11	US-11-096-568A-9176	Sequence 9176, Ap
402	26	55.3	316	11	US-11-188-298-14428	Sequence 14428, A	475	26	55.3	516	11	US-11-188-298-11229	Sequence 11229, A
403	26	55.3	316	11	US-11-188-298-16808	Sequence 16808, A	476	26	55.3	520	11	US-11-087-099-323	Sequence 323, App
404	26	55.3	316	11	US-11-188-298-19680	Sequence 19680, A	477	26	55.3	531	11	US-11-076-074-11	Sequence 11, Appl
405	26	55.3	320	9	US-10-454-437-260	Sequence 260, App	478	26	55.3	536	11	US-11-045-004-653	Sequence 653, App
406	26	55.3	322	11	US-11-188-298-8347	Sequence 8347, Ap	479	26	55.3	536	11	US-11-076-074-2	Sequence 2, Appl1
407	26	55.3	324	11	US-11-096-568A-22865	Sequence 22865, A	480	26	55.3	537	11	US-11-096-568A-12703	Sequence 12703, A
408	26	55.3	326	11	US-11-096-568A-20881	Sequence 20881, A	481	26	55.3	542	11	US-11-019-711-97	Sequence 97, Appl
409	26	55.3	328	11	US-11-096-568A-8944	Sequence 8944, Ap	482	26	55.3	547	9	US-10-506-454-115	Sequence 115, Ap
410	26	55.3	328	11	US-11-188-298-1714	Sequence 1714, Ap	483	26	55.3	553	11	US-11-188-298-541	Sequence 541, App
411	26	55.3	329	11	US-11-188-298-312	Sequence 312, App	484	26	55.3	558	9	US-10-541-814-16	Sequence 16, Appl
412	26	55.3	331	11	US-11-072-512-3573	Sequence 3573, Ap	485	26	55.3	558	11	US-11-188-298-11917	Sequence 11917, A
413	26	55.3	332	11	US-11-188-298-6666	Sequence 6666, Ap	486	26	55.3	562	11	US-11-072-512-2003	Sequence 2003, Ap
414	26	55.3	334	11	US-11-096-568A-24102	Sequence 24102, A	487	26	55.3	564	11	US-11-188-298-19101	Sequence 19101, A
415	26	55.3	337	11	US-11-096-568A-8943	Sequence 8943, Ap	488	26	55.3	564	11	US-11-188-298-19517	Sequence 19517, A
416	26	55.3	337	11	US-11-096-568A-8945	Sequence 8945, Ap	489	26	55.3	564	11	US-11-045-004-870	Sequence 870, App
417	26	55.3	338	9	US-10-878-556A-19	Sequence 19, Appl	490	26	55.3	573	11	US-11-188-298-8148	Sequence 8148, Ap
418	26	55.3	338	11	US-11-087-099-3029	Sequence 3029, Ap	491	26	55.3	573	11	US-11-188-298-9972	Sequence 9722, Ap
419	26	55.3	346	11	US-11-087-099-4169	Sequence 4169, Ap	492	26	55.3	584	11	US-11-072-175-157	Sequence 157, App
420	26	55.3	346	11	US-11-087-099-9491	Sequence 9491, Ap	493	26	55.3	585	9	US-10-967-457-18	Sequence 18, Appl
421	26	55.3	351	11	US-11-096-568A-26845	Sequence 26845, A	494	26	55.3	585	9	US-10-939-890-500	Sequence 500, App
422	26	55.3	356	9	US-10-454-437-424	Sequence 424, App	495	26	55.3	585	9	US-10-489-716-9	Sequence 9, Appl1
423	26	55.3	357	11	US-11-188-298-8650	Sequence 8650, Ap	496	26	55.3	585	11	US-10-936-447-12	Sequence 12, Appl
424	26	55.3	357	11	US-11-188-298-8650	Sequence 8650, Ap	497	26	55.3	585	11	US-11-078-663-18	Sequence 18, Appl
425	26	55.3	368	11	US-11-087-099-9324	Sequence 9324, Ap	498	26	55.3	585	11	US-11-078-914-18	Sequence 18, Appl
426	26	55.3	368	11	US-11-087-099-6079	Sequence 6079, Ap	499	26	55.3	585	11	US-11-175-690-1	Sequence 1, Appl1
427	26	55.3	372	9	US-10-703-799B-264	Sequence 264, App	500	26	55.3	585	11	US-11-232-433-445	Sequence 445, App
428	26	55.3	374	11	US-11-096-568A-8942	Sequence 8942, Ap	501	26	55.3	585	11	US-11-244-497-1	Sequence 1, Appl1
429	26	55.3	392	11	US-11-188-298-17556	Sequence 17556, A	502	26	55.3	585	11	US-11-264-096-18	Sequence 18, Appl
430	26	55.3	392	11	US-11-188-298-19221	Sequence 19221, A	503	26	55.3	591	11	US-11-096-568A-12702	Sequence 12702, A
431	26	55.3	395	11	US-11-188-298-6487	Sequence 6487, Ap	504	26	55.3	592	11	US-11-135-855-24	Sequence 24, Appl
432	26	55.3	395	11	US-11-188-298-18260	Sequence 18260, A	505	26	55.3	592	11	US-11-104-110-9	Sequence 9, Appl1
433	26	55.3	397	11	US-11-188-298-17325	Sequence 17325, A	506	26	55.3	592	11	US-11-104-111-29	Sequence 29, Appl
434	26	55.3	397	11	US-11-188-298-17753	Sequence 17753, A	507	26	55.3	605	11	US-11-046-653-3	Sequence 3, Appl1
435	26	55.3	399	11	US-11-072-175-183	Sequence 183, App	508	26	55.3	609	9	US-10-510-101-70	Sequence 70, Appl
436	26	55.3	399	11	US-11-045-004-1201	Sequence 1201, Ap	509	26	55.3	609	11	US-11-175-690-3	Sequence 3, Appl1
437	26	55.3	400	11	US-11-087-099-666	Sequence 666, App	510	26	55.3	617	11	US-11-038-901-1	Sequence 1, Appl1
438	26	55.3	400	11	US-11-183-664-94	Sequence 94, Appl	511	26	55.3	619	9	US-10-506-454-127	Sequence 127, App
439	26	55.3	404	11	US-11-188-298-7113	Sequence 7113, Ap	512	26	55.3	620	9	US-10-489-716-10	Sequence 10, Appl
440	26	55.3	410	11	US-11-096-568A-12704	Sequence 12704, A	513	26	55.3	624	11	US-11-188-298-13519	Sequence 13519, A
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443	26	55.3	415	11	US-11-045-004-1288	Sequence 1288, A	516	26	55.3	629	11	US-11-175-690-562	Sequence 562, App
444	26	55.3	417	11	US-11-188-298-17288	Sequence 17288, Ap	517	26	55.3	630	11	US-11-175-690-234	Sequence 234, App
445	26	55.3	429	11	US-11-087-099-1830	Sequence 1830, Ap	518	26	55.3	631	11	US-11-175-690-235	Sequence 235, App
446	26	55.3	431	11	US-11-087-099-826	Sequence 826, App	519	26	55.3	632	11	US-11-175-690-236	Sequence 236, App
447	26	55.3	434	9	US-10-510-386-174	Sequence 174, App	520	26	55.3	633	11	US-11-175-690-228	Sequence 228, App
448	26	55.3	435	11	US-11-096-568A-33553	Sequence 33553, A	521	26	55.3	634	11	US-11-175-690-227	Sequence 207, App
449	26	55.3	437	9	US-10-821-234-992	Sequence 992, App	522	26	55.3	634	11	US-11-175-690-279	Sequence 279, App
450	26	55.3	442	11	US-11-079-463-10140	Sequence 10140, A	523	26	55.3	634	11	US-11-175-690-280	Sequence 280, App
451	26	55.3	450	11	US-11-074-176-212	Sequence 212, App	524	26	55.3	636	11	US-11-175-690-239	Sequence 239, App
452	26	55.3	454	11	US-11-096-568A-7150	Sequence 7150, Ap	525	26	55.3	636	11	US-11-175-690-240	Sequence 240, App
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454	26	55.3	459	11	US-11-079-463-6819	Sequence 6819, Ap	527	26	55.3	636	11	US-11-175-690-268	Sequence 268, App
455	26	55.3	462	11	US-11-188-298-20722	Sequence 20722, A	528	26	55.3	636	11	US-11-175-690-277	Sequence 277, App
456	26	55.3	467	11	US-11-079-463-10054	Sequence 10054, A	529	26	55.3	636	11	US-11-175-690-278	Sequence 278, App
457	26	55.3	471	9	US-10-467-657-802	Sequence 802, App	530	26	55.3	637	11	US-11-175-690-222	Sequence 222, App
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534	26	55.3	637	11	US-11-175-690-558	Sequence 558, App	607	26	55.3	728	11	US-11-175-690-253	Sequence 253, App
535	26	55.3	638	9	US-10-793-626-1468	Sequence 1468, App	608	26	55.3	728	11	US-11-175-690-254	Sequence 254, App
536	26	55.3	638	11	US-11-175-690-229	Sequence 229, App	609	26	55.3	729	11	US-11-175-690-269	Sequence 269, App
537	26	55.3	638	11	US-11-175-690-559	Sequence 559, App	610	26	55.3	729	11	US-11-175-690-270	Sequence 270, App
538	26	55.3	638	11	US-11-175-690-560	Sequence 560, App	611	26	55.3	729	11	US-11-175-690-271	Sequence 271, App
539	26	55.3	638	11	US-11-096-568A-27648	Sequence 27648, A	612	26	55.3	729	11	US-11-175-690-272	Sequence 272, App
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541	26	55.3	641	11	US-11-175-690-230	Sequence 230, App	614	26	55.3	728	11	US-11-175-690-263	Sequence 263, App
542	26	55.3	642	11	US-11-175-690-232	Sequence 232, App	615	26	55.3	739	11	US-11-175-690-264	Sequence 264, App
543	26	55.3	642	11	US-11-175-690-233	Sequence 233, App	616	26	55.3	740	11	US-11-096-568A-14594	Sequence 14594, A
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545	26	55.3	642	11	US-11-175-690-238	Sequence 238, App	618	26	55.3	742	11	US-11-175-690-528	Sequence 528, App
546	26	55.3	646	11	US-11-175-690-223	Sequence 223, App	619	26	55.3	742	11	US-11-175-690-531	Sequence 531, App
547	26	55.3	646	11	US-11-175-690-275	Sequence 275, App	620	26	55.3	742	11	US-11-175-690-534	Sequence 534, App
548	26	55.3	646	11	US-11-175-690-276	Sequence 276, App	621	26	55.3	742	11	US-11-175-690-543	Sequence 543, App
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568	26	55.3	665	11	US-11-175-690-282	Sequence 282, App	641	26	55.3	769	11	US-11-175-690-204	Sequence 204, App
569	26	55.3	665	11	US-11-098-686-10601	Sequence 10601, A	642	26	55.3	769	11	US-11-175-690-435	Sequence 435, App
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573	26	55.3	671	11	US-11-098-686-11072	Sequence 11072, A	646	26	55.3	769	11	US-11-175-690-497	Sequence 497, App
574	26	55.3	671	11	US-11-096-568A-19866	Sequence 19866, A	647	26	55.3	771	11	US-11-175-690-485	Sequence 485, App
575	26	55.3	672	11	US-11-175-690-201	Sequence 201, App	648	26	55.3	771	11	US-11-175-690-488	Sequence 488, App
576	26	55.3	673	11	US-11-175-690-217	Sequence 217, App	649	26	55.3	772	11	US-11-175-690-471	Sequence 471, App
577	26	55.3	673	11	US-11-175-690-231	Sequence 231, App	650	26	55.3	772	11	US-11-175-690-479	Sequence 479, App
578	26	55.3	674	11	US-11-175-690-206	Sequence 206, App	651	26	55.3	773	11	US-11-175-690-450	Sequence 450, App
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580	26	55.3	676	11	US-11-188-298-5746	Sequence 3746, App	653	26	55.3	774	11	US-11-175-690-460	Sequence 460, App
581	26	55.3	676	11	US-11-188-298-5720	Sequence 5720, App	654	26	55.3	774	11	US-11-175-690-505	Sequence 505, App
582	26	55.3	676	11	US-11-188-298-7018	Sequence 7018, App	655	26	55.3	774	11	US-11-175-690-510	Sequence 510, App
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585	26	55.3	680	11	US-11-175-690-274	Sequence 274, App	658	26	55.3	775	11	US-11-175-690-476	Sequence 476, App
586	26	55.3	680	11	US-11-096-568A-14639	Sequence 14639, A	659	26	55.3	775	11	US-11-175-690-482	Sequence 482, App
587	26	55.3	684	11	US-11-096-568A-27647	Sequence 27647, A	660	26	55.3	775	11	US-11-175-690-482	Sequence 205, App
588	26	55.3	686	11	US-11-096-568A-27646	Sequence 27646, A	661	26	55.3	779	9	US-10-485-310-10	Sequence 10, App1
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594	26	55.3	703	11	US-11-096-568A-14595	Sequence 14595, A	667	26	55.3	790	11	US-11-175-690-261	Sequence 261, App
595	26	55.3	703	11	US-11-096-568A-19865	Sequence 19865, A	668	26	55.3	790	11	US-11-175-690-262	Sequence 262, App
596	26	55.3	711	11	US-11-175-690-252	Sequence 252, App	669	26	55.3	801	11	US-11-175-690-249	Sequence 249, App
597	26	55.3	711	11	US-11-079-463-8869	Sequence 8869, App	670	26	55.3	801	11	US-11-175-690-250	Sequence 250, App
598	26	55.3	712	11	US-11-033-030-49	Sequence 49, App1	671	26	55.3	810	9	US-10-453-372-1116	Sequence 1116, App
599	26	55.3	717	11	US-10-936-447-10	Sequence 10, App1	672	26	55.3	820	9	US-10-541-81A-18	Sequence 18, App1
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684	26	55.3	835	11	US-11-175-690-440	Sequence 440, App	757	25	53.2	130	11	US-11-096-568A-13220	Sequence 13220, A
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687	26	55.3	871	11	US-11-087-099-7516	Sequence 7516, App	760	25	53.2	135	11	US-11-087-099-9487	Sequence 9487, App
688	26	55.3	871	11	US-11-188-298-6895	Sequence 6895, App	761	25	53.2	141	11	US-11-045-004-2795	Sequence 2795, App
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693	26	55.3	1004	9	US-10-453-372-1118	Sequence 1118, App	766	25	53.2	166	9	US-10-475-075-861	Sequence 861, App
694	26	55.3	1004	9	US-10-453-372-1120	Sequence 1120, App	767	25	53.2	167	11	US-11-120-308-14	Sequence 14, Appl
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697	26	55.3	1050	9	US-10-523-477-12	Sequence 47, Appl	770	25	53.2	173	11	US-11-087-099-7769	Sequence 7769, App
698	26	55.3	1050	9	US-10-770-726-47	Sequence 47, Appl	771	25	53.2	173	11	US-11-072-512-2351	Sequence 2351, App
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703	26	55.3	1236	9	US-11-080-991-68	Sequence 68, Appl	776	25	53.2	184	11	US-11-188-298-2052	Sequence 2052, App
704	26	55.3	1244	9	US-10-531-036-36	Sequence 36, Appl	777	25	53.2	184	11	US-11-087-099-4739	Sequence 4739, App
705	26	55.3	1306	9	US-10-995-561-905	Sequence 905, App	778	25	53.2	184	11	US-11-098-686-118	Sequence 1189, App
706	26	55.3	1336	9	US-10-912-971-10	Sequence 10, Appl	779	25	53.2	187	9	US-10-506-454-695	Sequence 695, App
707	26	55.3	1343	9	US-10-541-814-2	Sequence 2, Appl	780	25	53.2	193	9	US-10-506-454-495	Sequence 495, App
708	26	55.3	1343	9	US-10-541-814-15	Sequence 15, Appl	781	25	53.2	194	11	US-11-072-512-3410	Sequence 3410, App
709	26	55.3	1348	11	US-11-079-463-8060	Sequence 8060, App	782	25	53.2	196	8	US-10-505-928-221	Sequence 221, App
710	26	55.3	1356	9	US-10-995-561-904	Sequence 904, App	783	25	53.2	196	11	US-11-087-099-11991	Sequence 11991, A
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712	26	55.3	1464	9	US-10-912-971-4	Sequence 4, Appl	785	25	53.2	196	11	US-11-096-568A-2822	Sequence 2822, App
713	26	55.3	1464	11	US-11-076-074-1	Sequence 1, Appl	786	25	53.2	197	9	US-10-485-517-359	Sequence 359, App
714	26	55.3	1464	11	US-11-124-367A-262	Sequence 262, App	787	25	53.2	198	9	US-10-495-218-1	Sequence 1, Appl
715	26	55.3	1480	11	US-11-076-074-10	Sequence 10, Appl	788	25	53.2	199	11	US-11-087-099-7027	Sequence 7027, App
716	26	55.3	1482	11	US-11-181-330-2	Sequence 2, Appl	789	25	53.2	200	11	US-11-127-622-4	Sequence 4, Appl
717	26	55.3	1484	9	US-10-912-971-6	Sequence 6, Appl	790	25	53.2	200	11	US-11-096-568A-2922	Sequence 2022, App
718	26	55.3	1484	11	US-11-181-330-6	Sequence 6, Appl	791	25	53.2	200	11	US-11-188-298-7149	Sequence 7149, App
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ALIGNMENTS

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; Publication No. US20060088472A1
; GENERAL INFORMATION:
; APPLICANT: Westbrock, Dennis
; APPLICANT: Westbrock, Ill, Thomas F.
; TITLE OF INVENTION: E7 REGULATION OF P21 (CIP1) THROUGH AKT
; FILE REFERENCE: 21108.0016U2
; CURRENT APPLICATION NUMBER: US/10/511.814
; CURRENT FILING DATE: 2004-10-19
; PRIOR APPLICATION NUMBER: PCT/US03/12667
; PRIOR FILING DATE: 2003-04-21
; PRIOR APPLICATION NUMBER: 60/374,245
; PRIOR FILING DATE: 2002-04-19
; NUMBER OF SEQ ID NOS: 21
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 8
; LENGTH: 98
; TYPE: PRT
; ORGANISM: Artificial Sequence
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US-10-511-814-8

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Best Local Similarity 100.0%; Pred. No. 0.011;
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RESULT 2
US-10-511-814-11
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; Publication No. US20060088472A1
; GENERAL INFORMATION:
; APPLICANT: Westbrock, Dennis
; APPLICANT: Westbrock, Ill, Thomas F.
; TITLE OF INVENTION: E7 REGULATION OF P21 (CIP1) THROUGH AKT
; FILE REFERENCE: 21108.0016U2
; CURRENT APPLICATION NUMBER: US/10/511.814
; CURRENT FILING DATE: 2004-10-19
; PRIOR APPLICATION NUMBER: PCT/US03/12667
; PRIOR FILING DATE: 2003-04-21
; PRIOR APPLICATION NUMBER: 60/374,245
; PRIOR FILING DATE: 2002-04-19
; NUMBER OF SEQ ID NOS: 21
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US-10-511-814-11

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; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Casaretti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530.253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
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; PRIOR FILING DATE: 2002-10-03
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; GENERAL INFORMATION:
; APPLICANT: BURGER, Alexander
; APPLICANT: HALLEK, Michael
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TITLE OF INVENTION: PAPILLOMA VIRUS CAPSOMERE VACCINE
TITLE OF INVENTION: FORMULATIONS AND METHODS OF USE
NUMBER OF SEQUENCES: 28
CORRESPONDENCE ADDRESS:
ADDRESSER: FOLEY & LARDNER
STREET: 3000 K Street, N.W.
CITY: Washington
STATE: D.C.
COUNTRY: U.S.A.
ZIP: 20007-5109
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/11/179,478
FILING DATE: 13-JULY-2005
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/10/654,129
FILING DATE: 04-Sep-2003
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: Sandercock, Colin G.
REGISTRATION NUMBER: 31,298
REFERENCE/DOCKET NUMBER: 37067/102
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 672-5300
TELEFAX: (202) 672-5399
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 98 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-11-179-478-4

Query Match 100.0%; Score 47; DB 11; Length 98;
Best Local Similarity 100.0%; Pred. No. 0.011;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 HYDIRTLED 9
|||||
Db 73 HYDIRTLED 81

RESULT 5
US-10-530-253-1
; Sequence 1, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Cassetti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: Patentin version 3.1
; SEQ ID NO 1
; LENGTH: 248
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-10-530-253-1

Query Match 100.0%; Score 47; DB 9; Length 248;

Best Local Similarity 100.0%; Pred. No. 0.034;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 HYDIRTLED 9
|||||
Db 223 HYDIRTLED 231

RESULT 6
US-10-530-253-3
; Sequence 3, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Cassetti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: Patentin version 3.1
; SEQ ID NO 3
; LENGTH: 248
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-10-530-253-3

Query Match 100.0%; Score 47; DB 9; Length 248;
Best Local Similarity 100.0%; Pred. No. 0.034;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 HYDIRTLED 9
|||||
Db 223 HYDIRTLED 231

RESULT 7
US-10-530-253-5
; Sequence 5, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Cassetti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: Patentin version 3.1
; SEQ ID NO 5
; LENGTH: 248
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-10-530-253-5

Query Match 100.0%; Score 47; DB 9; Length 248;
Best Local Similarity 100.0%; Pred. No. 0.034;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 HYDIRTLED 9
|||||

Db 223 HVDIRTLIED 231

RESULT 8
US-10-530-253-7
; Sequence 7, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Casasetti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; PRIOR FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 7
; LENGTH: 248
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-10-530-253-7

Query Match 100.0%; Score 47; DB 9; Length 248;
Best Local Similarity 100.0%; Pred. No. 0.034;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 HVDIRTLIED 9
Db 73 HVDIRTLIED 81

RESULT 9
US-10-530-253-9
; Sequence 9, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Casasetti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 9
; LENGTH: 248
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-10-530-253-9

Query Match 100.0%; Score 47; DB 9; Length 248;
Best Local Similarity 100.0%; Pred. No. 0.034;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 HVDIRTLIED 9
Db 73 HVDIRTLIED 81

RESULT 10
US-10-530-253-11

; Sequence 11, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Casasetti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 11
; LENGTH: 248
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-10-530-253-11

Query Match 100.0%; Score 47; DB 9; Length 248;
Best Local Similarity 100.0%; Pred. No. 0.034;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 HVDIRTLIED 9
Db 73 HVDIRTLIED 81

RESULT 11
US-11-192-923A-2
; Sequence 2, Application US/11192923A
; Publication No. US20060018928A1
; GENERAL INFORMATION:
; APPLICANT: PANG, XIAOMU
; TITLE OF INVENTION: VIRUS-LIKE PARTICLE CONTAINING A DENGUE VIRUS
; FILE REFERENCE: 116620-003
; CURRENT APPLICATION NUMBER: US/11/192,923A
; CURRENT FILING DATE: 2005-07-29
; PRIOR APPLICATION NUMBER: CN 03115272.4
; PRIOR FILING DATE: 2003-01-30
; PRIOR APPLICATION NUMBER: CN 03115273.2
; PRIOR FILING DATE: 2003-01-30
; NUMBER OF SEQ ID NOS: 45
; SOFTWARE: PatentIn Ver. 3.3
; SEQ ID NO 2
; LENGTH: 256
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-11-192-923A-2

Query Match 100.0%; Score 47; DB 11; Length 256;
Best Local Similarity 100.0%; Pred. No. 0.035;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 HVDIRTLIED 9
Db 73 HVDIRTLIED 81

RESULT 12
US-10-530-253-30
; Sequence 30, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Casasetti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney

```

; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; PRIOR FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 30
; LENGTH: 99
; TYPE: PRT
; ORGANISM: Human papillomavirus type 35
US-10-530-253-30

Query Match      85.1%; Score 40; DB 9; Length 99;
Best Local Similarity 77.8%; Pred. No. 0.32;
Matches 7; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY      1 HVDIRTLTD 9
       |:|:|:|
Db      74 HDIRKLED 82

RESULT 13
US-10-858-730-60
; Sequence 60, Application US/10858730
; Publication No. US20050255568A1
; GENERAL INFORMATION:
; APPLICANT: Bailey, Richard B.
; APPLICANT: Blomquist, Paul
; APPLICANT: Doten, Reed
; APPLICANT: Driggers, Edward M.
; APPLICANT: Madden, Kevin T.
; APPLICANT: O'Leary, Jessica
; APPLICANT: O'Toole, George
; APPLICANT: Trueheart, Joshua
; APPLICANT: Walbridge, Michael J.
; APPLICANT: Vorsej, Peter S.
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR AMINO ACID
; FILE REFERENCE: 14184-030001
; CURRENT APPLICATION NUMBER: US/10/858,730
; CURRENT FILING DATE: 2004-06-01
; PRIOR FILING DATE: 2003-05-30
; PRIOR APPLICATION NUMBER: US 60/475,000
; PRIOR FILING DATE: 2004-03-10
; PRIOR APPLICATION NUMBER: US 60/551,860
; NUMBER OF SEQ ID NOS: 364
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 60
; LENGTH: 417
; TYPE: PRT
; ORGANISM: Bifidobacterium longum
US-10-858-730-60

Query Match      78.7%; Score 37; DB 9; Length 417;
Best Local Similarity 55.6%; Pred. No. 7.4;
Matches 5; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY      1 HVDIRTLTD 9
       |:|:|:|
Db      26 HVDITLED 34

RESULT 14
US-10-506-454-533
; Sequence 533, Application US/10506454
; Publication No. US20060068386A1
; GENERAL INFORMATION:
; APPLICANT: Slesarev, Alexi I
; APPLICANT: Mezhevaya, Katja V

; APPLICANT: Polushin, Nikolai N
; APPLICANT: Shcherbina, Olga V
; APPLICANT: Shaknova, Vera V
; APPLICANT: Malykh, Andrei G
; APPLICANT: Kozayavkin, Sergei A
; TITLE OF INVENTION: The Complete Genome and Protein Sequences of the Hyperthermophile
; TITLE OF INVENTION: Methanopyrus Kandleri AV19 and Monophyly of Archaeal Methanogens
; TITLE OF INVENTION: and Methods of Use Thereof
; FILE REFERENCE: FID001
; CURRENT APPLICATION NUMBER: US/10/506,454
; CURRENT FILING DATE: 2004-08-31
; PRIOR APPLICATION NUMBER: PCT/US03/06564
; PRIOR FILING DATE: 2003-03-04
; PRIOR APPLICATION NUMBER: 60/361,742
; PRIOR FILING DATE: 2002-03-04
; NUMBER OF SEQ ID NOS: 1722
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 533
; LENGTH: 256
; TYPE: PRT
; ORGANISM: Methanopyrus kandleri
US-10-506-454-533

Query Match      72.3%; Score 34; DB 9; Length 256;
Best Local Similarity 55.6%; Pred. No. 17;
Matches 5; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY      1 HVDIRTLTD 9
       |:|:|:|
Db      9 HLDVRSYED 17

RESULT 15
US-11-126-313-34
; Sequence 34, Application US/11126313
; Publication No. US20050288489A1
; GENERAL INFORMATION:
; APPLICANT: Hirsch, Joel
; TITLE OF INVENTION: VOLTAGE-DEPENDENT CALCIUM CHANNEL BETA SUBUNIT FUNCTIONAL CORE
; FILE REFERENCE: P-6758-US
; CURRENT APPLICATION NUMBER: US/11/126,313
; CURRENT FILING DATE: 2005-05-11
; NUMBER OF SEQ ID NOS: 38
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 34
; LENGTH: 2312
; TYPE: PRT
; ORGANISM: homo sapiens
US-11-126-313-34

Query Match      72.3%; Score 34; DB 11; Length 2312;
Best Local Similarity 85.7%; Pred. No. 2.3e+02;
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY      1 HVDIRTL 7
       |:|:|:|
Db      183 HVDIRTL 189

RESULT 16
US-11-242-650-41
; Sequence 41, Application US/11242650
; Publication No. US20060080747A1
; GENERAL INFORMATION:
; APPLICANT: Keelman, Ulrich
; APPLICANT: Heim, Ute
; APPLICANT: Herbers, Karin
; APPLICANT: Hillebrand, Helke
; TITLE OF INVENTION: CONSTITUTIVE EXPRESSION CASSETTES FOR REGULATION OF PLANT
; FILE REFERENCE: 13173-00016-US
; CURRENT APPLICATION NUMBER: US/11/242,650
; CURRENT FILING DATE: 2005-10-04
```

PRIOR APPLICATION NUMBER: EP 04023634.1
PRIOR FILING DATE: 2004-10-05
PRIOR APPLICATION NUMBER: EP 05002266.4
PRIOR FILING DATE: 2005-02-03
PRIOR APPLICATION NUMBER: EP 05002848.9
PRIOR FILING DATE: 2005-02-11
NUMBER OF SEQ ID NOS: 156
SOFTWARE: Patentin version 3.3
SEQ ID NO 41
LENGTH: 495
TYPE: PRT
ORGANISM: Arabidopsis thaliana
US-11-242-650-41

Query Match 70.2%; Score 33; DB 11; Length 495;
Best Local Similarity 55.6%; Pred. No. 61;
Matches 5; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 1 HVDIRTLTD 9
Db 81 HVDIRTLTD 89

RESULT 17
US-10-661-966-16
Sequence 16, Application US/10661966
Publication No. US20050277118A1
GENERAL INFORMATION:
APPLICANT: Roth, Richard B.
APPLICANT: Nelson, Matthew Roberts
APPLICANT: Braun, Andreas
TITLE OF INVENTION: METHODS FOR IDENTIFYING SUBJECTS AT RISK
TITLE OF INVENTION: OF MELANOMA AND TREATMENTS THEREOF
FILE REFERENCE: 524592003800
CURRENT FILING DATE: 2003-09-11
PRIOR APPLICATION NUMBER: 60/410,595
PRIOR FILING DATE: 2002-09-11
PRIOR APPLICATION NUMBER: 60/422,344
PRIOR FILING DATE: 2002-10-29
NUMBER OF SEQ ID NOS: 61
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 16
LENGTH: 648
TYPE: PRT
ORGANISM: Mus musculus
US-10-661-966-16

Query Match 70.2%; Score 33; DB 9; Length 648;
Best Local Similarity 66.7%; Pred. No. 83;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 HVDIRTLTD 9
Db 271 HVDIRTLTD 279

RESULT 18
US-11-072-512-2814
Sequence 2814, Application US/11072512
Publication No. US20060029945A1
GENERAL INFORMATION:
APPLICANT: ISOGAI, TAKAO
APPLICANT: SUGIYAMA, TOMOYASU
APPLICANT: OTSUKI, TETSUJI
APPLICANT: WAKAMATSU, AI
APPLICANT: SATO, HIROYUKI
APPLICANT: ISHII, SHIZUKO
APPLICANT: YAMAMOTO, JUN-ICHI
APPLICANT: HIO, YURI
APPLICANT: OTSUKA, KAZUO
APPLICANT: NAGAI, KEIICHI

APPLICANT: IRIE, RYOTARO
APPLICANT: TAMECHIKA, ICHIRO
APPLICANT: SEKI, NAOHICO
APPLICANT: YOSHIKAWA, TSUTOMU
APPLICANT: OTSUKA, MOTOKYUKI
APPLICANT: NAGAHARI, KENJI
APPLICANT: MASUHO, YASUHIKO
TITLE OF INVENTION: Novel full length cDNA
FILE REFERENCE: 084335-0191
CURRENT APPLICATION NUMBER: US/11/072,512
CURRENT FILING DATE: 2005-03-07
PRIOR APPLICATION NUMBER: US 60/350,978
PRIOR FILING DATE: 2002-01-25
PRIOR APPLICATION NUMBER: JP 2001-379298
PRIOR FILING DATE: 2001-11-05
NUMBER OF SEQ ID NOS: 4096
SOFTWARE: Patentin Ver. 2.1
SEQ ID NO 2814
LENGTH: 699
TYPE: PRT
ORGANISM: Homo sapiens
US-11-072-512-2814

Query Match 70.2%; Score 33; DB 11; Length 699;
Best Local Similarity 66.7%; Pred. No. 91;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 HVDIRTLTD 9
Db 61 HVDIRTLTD 69

RESULT 19
US-10-530-061-1712
Sequence 1712, Application US/10530061
Publication No. US20060079453A1
GENERAL INFORMATION:
APPLICANT: SIDNEY, JOHN
APPLICANT: SOUTHWOOD, SCOTT
APPLICANT: SETTE, ALESSANDRO
TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
FILE REFERENCE: 2060.03US02/EKS/M-M
CURRENT APPLICATION NUMBER: US/10/530,061
CURRENT FILING DATE: 2005-04-04
PRIOR APPLICATION NUMBER: PCT/US03/31308
PRIOR FILING DATE: 2003-10-03
PRIOR APPLICATION NUMBER: 60/416,207
PRIOR FILING DATE: 2002-10-03
PRIOR APPLICATION NUMBER: 60/417,269
PRIOR FILING DATE: 2002-10-08
NUMBER OF SEQ ID NOS: 2503
SOFTWARE: Patentin version 3.3
SEQ ID NO 1712
LENGTH: 15
TYPE: PRT
ORGANISM: Human papillomavirus
US-10-530-061-1712

Query Match 68.1%; Score 32; DB 9; Length 15;
Best Local Similarity 100.0%; Pred. No. 1.6;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 HVDIRTLTD 6
Db 10 HVDIRTLTD 15

RESULT 20
US-10-218-784-194
Sequence 194, Application US/10218784
Publication No. US20060074223A1
GENERAL INFORMATION:
APPLICANT: Baker, Kevin P.

APPLICANT: Desnoyers, Luc
APPLICANT: Gerritsen, Mary
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, J. Christopher
APPLICANT: Gurney, Austin L.
APPLICANT: Smith, Victoria
APPLICANT: Stephan, Jean-Philippe F.
APPLICANT: Watanabe, Colin L.
APPLICANT: Wood, William I.
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
FILE OF INVENTION: ACIDS ENCODING THE SAME
FILE REFERENCE: P3530P1C18
CURRENT FILING DATE: 2002-08-12
CURRENT FILING DATE: 2002-08-12
PRIOR APPLICATION NUMBER: 10/119,480
PRIOR FILING DATE: 2002-04-09
PRIOR APPLICATION NUMBER: 60/059113
PRIOR FILING DATE: 1997-09-17
PRIOR APPLICATION NUMBER: 60/062287
PRIOR FILING DATE: 1997-10-17
PRIOR APPLICATION NUMBER: 60/063549
PRIOR FILING DATE: 1997-10-28
PRIOR APPLICATION NUMBER: 60/064103
PRIOR FILING DATE: 1997-10-31
PRIOR APPLICATION NUMBER: 60/069873
PRIOR FILING DATE: 1997-12-17
PRIOR APPLICATION NUMBER: 60/078910
PRIOR FILING DATE: 1998-03-20
PRIOR APPLICATION NUMBER: 60/079294
PRIOR FILING DATE: 1998-03-25
PRIOR APPLICATION NUMBER: 60/079656
PRIOR FILING DATE: 1998-03-26
PRIOR APPLICATION NUMBER: 60/079728
PRIOR FILING DATE: 1998-03-27
PRIOR APPLICATION NUMBER: 60/081819
PRIOR FILING DATE: 1998-04-15
PRIOR APPLICATION NUMBER: 60/081955
PRIOR FILING DATE: 1998-04-15
PRIOR APPLICATION NUMBER: 60/082804
PRIOR FILING DATE: 1998-04-22
PRIOR APPLICATION NUMBER: 60/084441
PRIOR FILING DATE: 1998-05-06
PRIOR APPLICATION NUMBER: 60/085323
PRIOR FILING DATE: 1998-05-13
PRIOR APPLICATION NUMBER: 60/085559
PRIOR FILING DATE: 1998-05-15
PRIOR APPLICATION NUMBER: 60/086392
PRIOR FILING DATE: 1998-05-22
PRIOR APPLICATION NUMBER: 60/089532
PRIOR FILING DATE: 1998-06-17
PRIOR APPLICATION NUMBER: 60/089558
PRIOR FILING DATE: 1998-06-17
PRIOR APPLICATION NUMBER: 60/089905
PRIOR FILING DATE: 1998-06-18
PRIOR APPLICATION NUMBER: 60/090472
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090557
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090691
PRIOR FILING DATE: 1998-06-25
PRIOR APPLICATION NUMBER: 60/090695
PRIOR FILING DATE: 1998-06-25
PRIOR APPLICATION NUMBER: 60/091982
PRIOR FILING DATE: 1998-07-07
PRIOR APPLICATION NUMBER: 60/095302
PRIOR FILING DATE: 1998-08-04
PRIOR APPLICATION NUMBER: 60/095318
PRIOR FILING DATE: 1998-08-04
PRIOR APPLICATION NUMBER: 60/095916
PRIOR FILING DATE: 1998-08-10
PRIOR APPLICATION NUMBER: 60/096146
PRIOR FILING DATE: 1998-08-11

PRIOR APPLICATION NUMBER: 60/096791
PRIOR FILING DATE: 1998-08-17
PRIOR APPLICATION NUMBER: 60/097986
PRIOR FILING DATE: 1998-08-26
PRIOR APPLICATION NUMBER: 60/098544
PRIOR FILING DATE: 1998-08-31
PRIOR APPLICATION NUMBER: 60/099596
PRIOR FILING DATE: 1998-09-09
PRIOR APPLICATION NUMBER: 60/099598
PRIOR FILING DATE: 1998-09-09
PRIOR APPLICATION NUMBER: 60/099803
PRIOR FILING DATE: 1998-09-10
PRIOR APPLICATION NUMBER: 60/099811
PRIOR FILING DATE: 1998-09-10
PRIOR APPLICATION NUMBER: 60/099812
PRIOR FILING DATE: 1998-09-10
PRIOR APPLICATION NUMBER: 60/099816
PRIOR FILING DATE: 1998-09-10
PRIOR APPLICATION NUMBER: 60/100038
PRIOR FILING DATE: 1998-09-11
PRIOR APPLICATION NUMBER: 60/100385
PRIOR FILING DATE: 1998-09-15
PRIOR APPLICATION NUMBER: 60/100390
PRIOR FILING DATE: 1998-09-15
PRIOR APPLICATION NUMBER: 60/100627
PRIOR FILING DATE: 1998-09-16
PRIOR APPLICATION NUMBER: 60/100848
PRIOR FILING DATE: 1998-09-18
PRIOR APPLICATION NUMBER: 60/100919
PRIOR FILING DATE: 1998-09-17
PRIOR APPLICATION NUMBER: 60/101477
PRIOR FILING DATE: 1998-09-23
PRIOR APPLICATION NUMBER: 60/101738
PRIOR FILING DATE: 1998-09-24
PRIOR APPLICATION NUMBER: 60/101741
PRIOR FILING DATE: 1998-09-24
PRIOR APPLICATION NUMBER: 60/101786
PRIOR FILING DATE: 1998-09-25
PRIOR APPLICATION NUMBER: 60/101916
PRIOR FILING DATE: 1998-09-24
PRIOR APPLICATION NUMBER: 60/101922
PRIOR FILING DATE: 1998-09-24
PRIOR APPLICATION NUMBER: 60/106178
PRIOR FILING DATE: 1998-10-28
PRIOR APPLICATION NUMBER: 60/106248
PRIOR FILING DATE: 1998-10-29
PRIOR APPLICATION NUMBER: 60/106464
PRIOR FILING DATE: 1998-10-30
PRIOR APPLICATION NUMBER: 60/106505
PRIOR FILING DATE: 1998-11-03
PRIOR APPLICATION NUMBER: 60/108787
PRIOR FILING DATE: 1998-11-17
PRIOR APPLICATION NUMBER: 60/108801
PRIOR FILING DATE: 1998-11-17
PRIOR APPLICATION NUMBER: 60/108849
PRIOR FILING DATE: 1998-11-18
PRIOR APPLICATION NUMBER: 60/112422
PRIOR FILING DATE: 1998-12-15
PRIOR APPLICATION NUMBER: 60/113296
PRIOR FILING DATE: 1998-12-22
PRIOR APPLICATION NUMBER: 60/113605
PRIOR FILING DATE: 1998-12-23
PRIOR APPLICATION NUMBER: 60/113621
PRIOR FILING DATE: 1998-12-23
PRIOR APPLICATION NUMBER: 60/115558
PRIOR FILING DATE: 1999-01-12
PRIOR APPLICATION NUMBER: 60/115565
PRIOR FILING DATE: 1999-01-12
PRIOR APPLICATION NUMBER: 60/115733
PRIOR FILING DATE: 1999-01-12
PRIOR APPLICATION NUMBER: 60/119549
PRIOR FILING DATE: 1999-02-10
PRIOR APPLICATION NUMBER: 60/123618

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; PRIOR FILING DATE: 1999-03-10
; PRIOR APPLICATION NUMBER: 60/125259
; PRIOR FILING DATE: 1999-03-19
; PRIOR APPLICATION NUMBER: 60/125775
; PRIOR FILING DATE: 1999-03-23
; PRIOR APPLICATION NUMBER: 60/126773
; PRIOR FILING DATE: 1999-03-29
; PRIOR APPLICATION NUMBER: 60/127887
; PRIOR FILING DATE: 1999-04-05
; PRIOR APPLICATION NUMBER: 60/130232
; PRIOR FILING DATE: 1999-04-21
; PRIOR APPLICATION NUMBER: 60/131022
; PRIOR FILING DATE: 1999-04-26
; PRIOR APPLICATION NUMBER: 60/131270
; PRIOR FILING DATE: 1999-04-27
; PRIOR APPLICATION NUMBER: 60/131291
; PRIOR FILING DATE: 1999-04-27
; PRIOR APPLICATION NUMBER: 60/131445
; PRIOR FILING DATE: 1999-04-28
; PRIOR APPLICATION NUMBER: 60/134287
; PRIOR FILING DATE: 1999-05-14
; PRIOR APPLICATION NUMBER: 60/140650
; PRIOR FILING DATE: 1999-06-22
; PRIOR APPLICATION NUMBER: 60/140723
; PRIOR FILING DATE: 1999-06-22
; PRIOR APPLICATION NUMBER: 60/141037
; PRIOR FILING DATE: 1999-06-23
; PRIOR APPLICATION NUMBER: 60/144758
; PRIOR FILING DATE: 1999-07-20
; PRIOR APPLICATION NUMBER: 60/145698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: 60/146222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: 60/146963
; PRIOR FILING DATE: 1999-08-03
; PRIOR APPLICATION NUMBER: 60/149320
; PRIOR FILING DATE: 1999-08-17
; PRIOR APPLICATION NUMBER: 60/149638
; PRIOR FILING DATE: 1999-08-17
; PRIOR APPLICATION NUMBER: 60/151733
; PRIOR FILING DATE: 1999-08-31
; PRIOR APPLICATION NUMBER: 60/164418
; PRIOR FILING DATE: 1999-11-09
; PRIOR APPLICATION NUMBER: 60/166361
; PRIOR FILING DATE: 1999-11-16
; PRIOR APPLICATION NUMBER: 60/169445
; PRIOR FILING DATE: 1999-12-07
; PRIOR APPLICATION NUMBER: 60/169495
; PRIOR FILING DATE: 1999-12-07
; PRIOR APPLICATION NUMBER: 60/169835

```

```

Query Match          68.1%; Score 32; DB 9; Length 172;
Best Local Similarity 66.7%; Pred. No. 28;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

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```

QY      1 HVDIRTLED 9
       |:|||||
Db      37 HHHMRTLED 45

```

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RESULT 21
US-10-219-061-194
; Sequence 194, Application US/10219061
; Publication No. US20060074224A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Desnoyers, Luc
; APPLICANT: Gerritsen, Mary
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Smith, Victoria

```

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; APPLICANT: Stephan, Jean-Philippe F.
; APPLICANT: Matanabe, Colin L.
; APPLICANT: Wood, William I.
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3530PIC16
; CURRENT APPLICATION NUMBER: US/10/219,061
; CURRENT FILING DATE: 2002-08-12
; PRIOR APPLICATION NUMBER: 10/119,480
; PRIOR FILING DATE: 2002-04-09
; PRIOR APPLICATION NUMBER: 60/059113
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/062287
; PRIOR FILING DATE: 1997-10-17
; PRIOR APPLICATION NUMBER: 60/063549
; PRIOR FILING DATE: 1997-10-28
; PRIOR APPLICATION NUMBER: 60/064103
; PRIOR FILING DATE: 1997-10-31
; PRIOR APPLICATION NUMBER: 60/065873
; PRIOR FILING DATE: 1997-12-17
; PRIOR APPLICATION NUMBER: 60/078910
; PRIOR FILING DATE: 1998-03-20
; PRIOR APPLICATION NUMBER: 60/079294
; PRIOR FILING DATE: 1998-03-25
; PRIOR APPLICATION NUMBER: 60/079656
; PRIOR FILING DATE: 1998-03-26
; PRIOR APPLICATION NUMBER: 60/079728
; PRIOR FILING DATE: 1998-03-27
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 246
; SEQ ID NO 194
; LENGTH: 172
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-219-061-194

```

```

Query Match          68.1%; Score 32; DB 9; Length 172;
Best Local Similarity 66.7%; Pred. No. 28;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

```

```

QY      1 HVDIRTLED 9
       |:|||||
Db      37 HHHMRTLED 45

```

```

RESULT 22
US-10-219-062-194
; Sequence 194, Application US/10219062
; Publication No. US20060074220A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Desnoyers, Luc
; APPLICANT: Gerritsen, Mary
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Smith, Victoria
; APPLICANT: Stephan, Jean-Philippe F.
; APPLICANT: Matanabe, Colin L.
; APPLICANT: Wood, William I.
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3530PIC17
; CURRENT APPLICATION NUMBER: US/10/219,062
; CURRENT FILING DATE: 2002-08-12
; PRIOR APPLICATION NUMBER: 10/119,480
; PRIOR FILING DATE: 2002-04-09
; PRIOR APPLICATION NUMBER: 60/059113
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/062287
; PRIOR FILING DATE: 1997-10-17
; PRIOR APPLICATION NUMBER: 60/063549

```

```

; PRIOR FILING DATE: 1997-10-28
; PRIOR APPLICATION NUMBER: 60/064103
; PRIOR FILING DATE: 1997-10-31
; PRIOR APPLICATION NUMBER: 60/069873
; PRIOR FILING DATE: 1997-12-17
; PRIOR APPLICATION NUMBER: 60/078910
; PRIOR FILING DATE: 1998-03-20
; PRIOR APPLICATION NUMBER: 60/079294
; PRIOR FILING DATE: 1998-03-25
; PRIOR APPLICATION NUMBER: 60/079656
; PRIOR FILING DATE: 1998-03-26
; PRIOR APPLICATION NUMBER: 60/079728
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 246
; SEQ ID NO 194
; LENGTH: 172
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-219-062-194

Query Match          68.1%; Score 32; DB 9; Length 172;
Best Local Similarity 66.7%; Pred. No. 28;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY      1 HVDIRTLED 9
       |: |||||
Db      37 HIHWRTLED 45

RESULT 23
US-10-219-064-194
; Sequence 194, Application US/10219064
; Publication No. US20060074221a1
GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Deenoeyers, Luc
; APPLICANT: Gerritsen, Mary
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Smith, Victoria
; APPLICANT: Stephan, Jean-Philippe F.
; APPLICANT: Watanabe, Colin L.
; APPLICANT: Wood, William I.
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
FILE REFERENCE: P3530P1C44
CURRENT FILING DATE: 2002-08-13
PRIOR APPLICATION NUMBER: 10/119,480
PRIOR FILING DATE: 2002-04-09
PRIOR APPLICATION NUMBER: 60/059113
PRIOR FILING DATE: 1997-09-17
PRIOR APPLICATION NUMBER: 60/062287
PRIOR FILING DATE: 1997-10-17
PRIOR APPLICATION NUMBER: 60/063549
PRIOR FILING DATE: 1997-10-28
PRIOR APPLICATION NUMBER: 60/064103
PRIOR FILING DATE: 1997-10-31
PRIOR APPLICATION NUMBER: 60/069873
PRIOR FILING DATE: 1997-12-17
PRIOR APPLICATION NUMBER: 60/078910
PRIOR FILING DATE: 1998-03-20
PRIOR APPLICATION NUMBER: 60/079294
PRIOR FILING DATE: 1998-03-25
PRIOR APPLICATION NUMBER: 60/079656
PRIOR FILING DATE: 1998-03-26
PRIOR APPLICATION NUMBER: 60/079728
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 246
; SEQ ID NO 194
; LENGTH: 172
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-219-062-194
```

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; SEQ ID NO 194
; LENGTH: 172
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-219-064-194

Query Match          68.1%; Score 32; DB 9; Length 172;
Best Local Similarity 66.7%; Pred. No. 28;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY      1 HVDIRTLED 9
       |: |||||
Db      37 HIHWRTLED 45

RESULT 24
US-10-233-134-194
; Sequence 194, Application US/10233134
; Publication No. US20060073476A1
GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Deenoeyers, Luc
; APPLICANT: Gerritsen, Mary
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Smith, Victoria
; APPLICANT: Stephan, Jean-Philippe F.
; APPLICANT: Watanabe, Colin L.
; APPLICANT: Wood, William I.
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
FILE REFERENCE: P3530P1C13
CURRENT FILING DATE: 2002-08-29
PRIOR APPLICATION NUMBER: 10/119,480
PRIOR FILING DATE: 2002-04-09
PRIOR APPLICATION NUMBER: 60/059113
PRIOR FILING DATE: 1997-09-17
PRIOR APPLICATION NUMBER: 60/062287
PRIOR FILING DATE: 1997-10-17
PRIOR APPLICATION NUMBER: 60/063549
PRIOR FILING DATE: 1997-10-28
PRIOR APPLICATION NUMBER: 60/064103
PRIOR FILING DATE: 1997-10-31
PRIOR APPLICATION NUMBER: 60/069873
PRIOR FILING DATE: 1997-12-17
PRIOR APPLICATION NUMBER: 60/078910
PRIOR FILING DATE: 1998-03-20
PRIOR APPLICATION NUMBER: 60/079294
PRIOR FILING DATE: 1998-03-25
PRIOR APPLICATION NUMBER: 60/079656
PRIOR FILING DATE: 1998-03-26
PRIOR APPLICATION NUMBER: 60/079728
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 246
; SEQ ID NO 194
; LENGTH: 172
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-233-134-194
```

RESULT 25
 US-11-188-298-15384
 ; Sequence 15384, Application US/11188298
 ; Publication No. US20060075522A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Abad, Mark S. et al.
 ; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
 ; FILE REFERENCE: 38-21(53452)B
 ; CURRENT APPLICATION NUMBER: US/11/188, 298
 ; CURRENT FILING DATE: 2005-07-22
 ; PRIOR APPLICATION NUMBER: 60/592, 978
 ; PRIOR FILING DATE: 2004-07-31
 ; NUMBER OF SEQ ID NOS: 22569
 ; SEQ ID NO 15384
 ; LENGTH: 189
 ; TYPE: PRT
 ; ORGANISM: Ferroplasma acidimanus
 ; US-11-188-298-15384

Query Match 68.1%; Score 32; DB 11; Length 189;
 Best Local Similarity 100.0%; Pred. No. 31;
 Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 1 HVDIRTL 6
 Db 30 HVDIRTL 35

RESULT 26
 US-11-096-568A-15321
 ; Sequence 15321, Application US/11096568A
 ; Publication No. US20060048240A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Alexandrov, Nikolai et al.
 ; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
 ; FILE REFERENCE: 2750-1592PUS2
 ; CURRENT APPLICATION NUMBER: US/11/096, 568A
 ; CURRENT FILING DATE: 2005-04-01
 ; NUMBER OF SEQ ID NOS: 34471
 ; SEQ ID NO 15321
 ; LENGTH: 415
 ; TYPE: PRT
 ; ORGANISM: Zea mays subsp. mays
 ; FEATURES:
 ; NAME/KEY: misc feature
 ; LOCATION: (1)..(415)
 ; OTHER INFORMATION: Ceres Seq. ID no. 12344081
 ; US-11-096-568A-15321

Query Match 68.1%; Score 32; DB 11; Length 415;
 Best Local Similarity 55.6%; Pred. No. 79;
 Matches 5; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

Oy 1 HVDIRTL 9
 Db 86 HVDIRTL 94

RESULT 27
 US-10-491-468-18
 ; Sequence 18, Application US/10491468
 ; Publication No. US20060051836A1
 ; GENERAL INFORMATION:
 ; APPLICANT: INCYTE CORPORATION; TANG, Y. Tom;
 ; APPLICANT: FORSYTHE, Ian J.; EMERLING, Brooke M.;
 ; APPLICANT: HARALTA, April J.A.; YUE, Henry;
 ; APPLICANT: XU, Yuning; GIERZEN, Kimberly J.;
 ; APPLICANT: CHAWLA, Narinder K.; BAUGHN, Mariah R.;
 ; APPLICANT: MARQUIS, Joseph P.; BECHA, Shanya D.;
 ; APPLICANT: KABLE, Amy E.; LAL, Preeti G.;
 ; APPLICANT: RICHARDSON, Thomas W.; LEE, Soo Y.;
 ; APPLICANT: LEE, Ernestine A.; TRAN, Bao;

APPLICANT: WARREN, Bridget A.; LU, Dyrng Aina M.;
 APPLICANT: GURUBAJAN, Rajagopal; SPRAGUE, William W.;
 APPLICANT: BLAKE, Julie J.; THANGAVELU, Kavitha;
 APPLICANT: SWARNAKAR, Anita; GORVAD, Ann E.;
 APPLICANT: GRIFFIN, Jennifer A.; LINDQUIST, Erika A.;
 APPLICANT: ELLIOTT, Vicki S.; ISON, Craig H.;
 APPLICANT: RAMKUMAR, Jayalakshmi
 ; TITLE OF INVENTION: MOLECULES FOR DISEASE DETECTION AND TREATMENT
 ; FILE REFERENCE: PR-1232 USN
 ; CURRENT APPLICATION NUMBER: US/10/491, 468
 ; CURRENT FILING DATE: 2004-03-31
 ; PRIOR APPLICATION NUMBER: PCT/US02/32852
 ; PRIOR FILING DATE: 2002-10-10
 ; PRIOR APPLICATION NUMBER: US 60/328, 944
 ; PRIOR FILING DATE: 2001-10-12
 ; PRIOR APPLICATION NUMBER: US 60/345, 384
 ; PRIOR FILING DATE: 2001-10-26
 ; PRIOR APPLICATION NUMBER: US 60/343, 880
 ; PRIOR FILING DATE: 2001-11-02
 ; PRIOR APPLICATION NUMBER: US 60/345, 143
 ; PRIOR FILING DATE: 2001-11-09
 ; PRIOR APPLICATION NUMBER: US 60/332, 430
 ; PRIOR FILING DATE: 2001-11-16
 ; NUMBER OF SEQ ID NOS: 96
 ; SOFTWARE: PERL Program
 ; SEQ ID NO 18
 ; LENGTH: 723
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens
 ; FEATURES:
 ; NAME/KEY: misc feature
 ; OTHER INFORMATION: Incyte ID No: 1379785CD1
 ; US-10-491-468-18

Query Match 68.1%; Score 32; DB 9; Length 723;
 Best Local Similarity 55.6%; Pred. No. 1.5e+02;
 Matches 5; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

Oy 1 HVDIRTL 9
 Db 583 HVDIRTL 591

RESULT 28
 US-10-506-454-450
 ; Sequence 450, Application US/10506454
 ; Publication No. US20060068386A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Slesarev, Alexi I
 ; APPLICANT: Mezheva, Katja V
 ; APPLICANT: Polushin, Nikolai N
 ; APPLICANT: Shcherbina, Olga V
 ; APPLICANT: Shakhova, Vera V
 ; APPLICANT: Malikh, Andrei G
 ; APPLICANT: Kozavkin, Sergei A
 ; TITLE OF INVENTION: The Complete Genome and Protein Sequences of the Hyperthermophile
 ; TITLE OF INVENTION: Methanopyrus kandleri AV19 and Monophyly of Archaeal Methanogens
 ; FILE REFERENCE: FID001
 ; CURRENT APPLICATION NUMBER: US/10/506, 454
 ; CURRENT FILING DATE: 2004-08-31
 ; PRIOR APPLICATION NUMBER: PCT/US03/06664
 ; PRIOR FILING DATE: 2003-03-04
 ; PRIOR APPLICATION NUMBER: 60/361, 742
 ; PRIOR FILING DATE: 2002-03-04
 ; NUMBER OF SEQ ID NOS: 1722
 ; SOFTWARE: PatentIn version 3.2
 ; SEQ ID NO 450
 ; LENGTH: 191
 ; TYPE: PRT
 ; ORGANISM: Methanopyrus kandleri
 ; US-10-506-454-450

Query Match 66.0%; Score 31; DB 9; Length 191;
Best Local Similarity 83.3%; Pred. No. 51;
Matches 5; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 HVDIRTL 6
Db 162 HVDIRTL 167

RESULT 29
US-11-172-740-2176
Sequence 2176, Application US/11172740
Publication No. US20060057724A1
GENERAL INFORMATION:
APPLICANT: MASCIA, Peter
APPLICANT: ALEXANDROV, Nickolai
APPLICANT: BROVER, Vyacheslav
TITLE OF INVENTION: NUCLEOTIDE SEQUENCES AND POLYPEPTIDES ENCODED THEREBY USEFUL FOR
FILE REFERENCE: 2750-1602PUS2
CURRENT APPLICATION NUMBER: US/11/172,740
CURRENT FILING DATE: 2005-06-30
PRIOR APPLICATION NUMBER: 60/583,621
PRIOR FILING DATE: 2004-06-30
PRIOR APPLICATION NUMBER: 60/584,829
PRIOR FILING DATE: 2004-06-30
PRIOR APPLICATION NUMBER: 60/584,800
PRIOR FILING DATE: 2004-06-30
NUMBER OF SEQ ID NOS: 2523
SEQ ID NO 2176
LENGTH: 206
TYPE: PRT
ORGANISM: Zea mays
FEATURE:
NAME/KEY: misc_feature
LOCATION: (1)..(206)
OTHER INFORMATION: Ceres CLONE ID no. 336092
FEATURE:
NAME/KEY: misc_feature
LOCATION:
OTHER INFORMATION: Utility: Useful for making plants sterile and for genetic confine

Query Match 66.0%; Score 31; DB 11; Length 206;
Best Local Similarity 55.6%; Pred. No. 56;
Matches 5; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

Qy 1 HVDIRTL 9
Db 141 HVDIRTL 149

RESULT 30
US-11-123-701-2
Sequence 2, Application US/11123701
Publication No. US20060024698A1
GENERAL INFORMATION:
APPLICANT: Cox, Michael M.
APPLICANT: Harris, Dennis R.
APPLICANT: Saville, Sergei V.
APPLICANT: Battista, John R.
APPLICANT: Jolivet, Edmond
APPLICANT: Tanaka, Masashi
APPLICANT: Eglington, Julie M.
TITLE OF INVENTION: Method to protect DNA ends
FILE REFERENCE: 960296.00171
CURRENT APPLICATION NUMBER: US/11/123,701
CURRENT FILING DATE: 2005-05-06
PRIOR APPLICATION NUMBER: 60/569,198
PRIOR FILING DATE: 2004-05-07
NUMBER OF SEQ ID NOS: 18
SOFTWARE: PatentIn version 3.2
SEQ ID NO 2

LENGTH: 208
TYPE: PRT
ORGANISM: Deinococcus radiodurans
US-11-123-701-2

Query Match 66.0%; Score 31; DB 11; Length 208;
Best Local Similarity 55.6%; Pred. No. 57;
Matches 5; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

Qy 1 HVDIRTL 9
Db 38 HVDIRTL 46

RESULT 31
US-11-045-004-2048
Sequence 2048, Application US/11045004
Publication No. US20060078901A1
GENERAL INFORMATION:
APPLICANT: BUCHRIESEN, CARMEN
APPLICANT: FRANGUL, LIONEL
APPLICANT: COUVE, ELISABETH
APPLICANT: RUSNIOK, CHRISTOPHE
APPLICANT: FISHI, HAFLDA
APPLICANT: DEHOUX, PIERRE
APPLICANT: DUSURGET, OLIVIER
APPLICANT: CHETOUANI, FARID
APPLICANT: NEDJARI, HAFED
APPLICANT: GLASER, PHILIPPE
APPLICANT: KUNST, FRANK
APPLICANT: COSART, PASCALE
APPLICANT: DANIELS, JUSTIN
APPLICANT: GOEBEL, WERNER
APPLICANT: KREFT, JURGEN
APPLICANT: KUHN, MICHAEL
APPLICANT: NG, EVA
APPLICANT: VAZQUEZ-BOLAND, ANTONIO
APPLICANT: DOMINGUEZ-BERNAL, GUSTAVO
APPLICANT: GARRIDO-GARCIA, PATRICIA
APPLICANT: TIERREZ-MARTINEZ, ALBERTO
APPLICANT: AMEND, ALEXANDRA
APPLICANT: CHAKRABORTY, TRINAD
APPLICANT: DOMANN, EUGEN
APPLICANT: HAIN, THORSTEN
APPLICANT: BERCHE, PATRICK
APPLICANT: CHARBIT, ALAIN
APPLICANT: DURANT, LIONEL
APPLICANT: PEREZ-DIAZ, JOSE-CLAUDIO
APPLICANT: BAQUERO, FERNANDO
APPLICANT: GARCIA DEL PORTILLO, FRANCISCO
APPLICANT: GOMEZ-LOPEZ, NURIA
APPLICANT: MADUENIO, ENCARN
APPLICANT: PABLOS, BETRIZ DE
APPLICANT: MEHLAND, JURGEN
APPLICANT: KARST, UWE
APPLICANT: ENTIAN, KARL-DIETER
APPLICANT: HAUF, JORG
APPLICANT: ROSE, MATTHIAS
APPLICANT: VOSS, HAMUT
TITLE OF INVENTION: LISTERIA MONOCYTOGENES GENOME, POLYPEPTIDES AND USES
FILE REFERENCE: 05394.0018-02
CURRENT APPLICATION NUMBER: US/11/045,004
CURRENT FILING DATE: 2005-01-28
PRIOR APPLICATION NUMBER: 10/637,657
PRIOR FILING DATE: 2003-08-11
PRIOR APPLICATION NUMBER: 10/257,023
PRIOR FILING DATE: 2002-10-08
PRIOR APPLICATION NUMBER: PCT/FR01/01118
PRIOR FILING DATE: 2001-04-11
PRIOR APPLICATION NUMBER: FR 00/04,629
PRIOR FILING DATE: 2000-04-11
NUMBER OF SEQ ID NOS: 2854
SOFTWARE: PatentIn version 3.3

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; SEQ ID NO 2048
; LENGTH: 276
; TYPE: PRT
; ORGANISM: Listeria monocytogenes
US-11-045-004-2048

Query Match          66.0%; Score 31; DB 11; Length 276;
Best Local Similarity 50.0%; Pred. No. 79;
Matches 4; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY      1 HVDIRTL 8
       ||:::||
Db      26 HINRTIE 33

RESULT 32
US-10-454-437-328
; Sequence 328, Application US/10454437
; Publication No. US20050277115A1
; GENERAL INFORMATION:
; APPLICANT: Pompeius, Markus
; APPLICANT: Krogger, Burkhard
; APPLICANT: Schröder, Hartwig
; APPLICANT: Zeidler, Oskar
; APPLICANT: Haberhauer, Gregor
; TITLE OF INVENTION: CORNIBACTERIUM GLUTAMICUM GENES ENCODING PROTEINS
; FILE REFERENCE: BGI-128CPN
; CURRENT APPLICATION NUMBER: US/10/454,437
; CURRENT FILING DATE: 2003-06-13
; PRIOR APPLICATION NUMBER: US 60/141031
; PRIOR FILING DATE: 1999-06-25
; PRIOR APPLICATION NUMBER: DE 19931636.8
; PRIOR FILING DATE: 1999-07-08
; PRIOR APPLICATION NUMBER: DE 19932125.6
; PRIOR FILING DATE: 1999-07-09
; PRIOR APPLICATION NUMBER: DE 19932126.4
; PRIOR FILING DATE: 1999-07-09
; PRIOR APPLICATION NUMBER: DE 19932127.2
; PRIOR FILING DATE: 1999-07-09
; PRIOR APPLICATION NUMBER: DE 19932128.0
; PRIOR FILING DATE: 1999-07-09
; PRIOR APPLICATION NUMBER: DE 19932129.9
; PRIOR FILING DATE: 1999-07-19
; PRIOR APPLICATION NUMBER: DE 19932226.0
; PRIOR FILING DATE: 1999-07-09
; PRIOR APPLICATION NUMBER: DE 19932226.6
; PRIOR FILING DATE: 1999-07-14
; PRIOR APPLICATION NUMBER: DE 19932922.2
; PRIOR FILING DATE: 1999-07-14
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 442
; SEQ ID NO 328
; LENGTH: 310
; TYPE: PRT
; ORGANISM: Corynebacterium glutamicum
US-10-454-437-328

Query Match          66.0%; Score 31; DB 9; Length 310;
Best Local Similarity 62.5%; Pred. No. 91;
Matches 5; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY      2 VDIRTLED 9
       ||:::||
Db      13 LDIRTDD 20

RESULT 33
US-11-096-568A-33315
; Sequence 33315, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
; APPLICANT: Alexandrov, Nikolai et al.
```

```
; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides I
; FILE REFERENCE: 2750-1592PUS2
; CURRENT APPLICATION NUMBER: US/11/096,568A
; CURRENT FILING DATE: 2005-04-01
; NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 33315
; LENGTH: 400
; TYPE: PRT
; ORGANISM: Arabidopsis thaliana
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1)-(400)
; OTHER INFORMATION: Ceres Seq. ID no. 13602721
US-11-096-568A-33315

Query Match          66.0%; Score 31; DB 11; Length 400;
Best Local Similarity 44.4%; Pred. No. 1,2e+02;
Matches 4; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

QY      1 HVDIRTL 9
       ||:::||
Db      146 HVEVKAV 154

RESULT 34
US-11-096-568A-33314
; Sequence 33314, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
; APPLICANT: Alexandrov, Nikolai et al.
; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides I
; FILE REFERENCE: 2750-1592PUS2
; CURRENT APPLICATION NUMBER: US/11/096,568A
; CURRENT FILING DATE: 2005-04-01
; NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 33314
; LENGTH: 492
; TYPE: PRT
; ORGANISM: Arabidopsis thaliana
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1)-(492)
; OTHER INFORMATION: Ceres Seq. ID no. 13602720
US-11-096-568A-33314

Query Match          66.0%; Score 31; DB 11; Length 492;
Best Local Similarity 44.4%; Pred. No. 1.6e+02;
Matches 4; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

QY      1 HVDIRTL 9
       ||:::||
Db      238 HVEVKAV 246

RESULT 35
US-11-096-568A-6429
; Sequence 6429, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
; APPLICANT: Alexandrov, Nikolai et al.
; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides I
; FILE REFERENCE: 2750-1592PUS2
; CURRENT APPLICATION NUMBER: US/11/096,568A
; CURRENT FILING DATE: 2005-04-01
; NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 6429
; LENGTH: 498
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
```

NAME/KEY: misc feature
LOCATION: (1) ..(498)
OTHER INFORMATION: Ceres Seq. ID no. 14315149
US-11-096-568A-6429

Query Match 66.0%; Score 31; DB 11; Length 498;
Best Local Similarity 55.6%; Pred. No. 1.6e+02;
Matches 5; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 1 HVDIETLED 9
DB 170 HIDEPTLAD 178

RESULT 36
US-11-096-568A-6428
Sequence 6428, Application US/11096568A
Publication No. US20060048240A1
GENERAL INFORMATION:

APPLICANT: Alexandrov, Nickolai et al.
TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
TITLE OF INVENTION: Theby
FILE REFERENCE: 2750-1592PUS2
CURRENT APPLICATION NUMBER: US/11/096,568A
CURRENT FILING DATE: 2005-04-01
NUMBER OF SEQ ID NOS: 34471
SEQ ID NO 6428
LENGTH: 513
TYPE: PRT
ORGANISM: Glycine max

FEATURE:
NAME/KEY: misc feature
LOCATION: (1) ..(513)
OTHER INFORMATION: Ceres Seq. ID no. 14315148

US-11-096-568A-6428

Query Match 66.0%; Score 31; DB 11; Length 513;
Best Local Similarity 55.6%; Pred. No. 1.6e+02;
Matches 5; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 1 HVDIETLED 9
DB 185 HIDEPTLAD 193

RESULT 37
US-11-096-568A-6427
Sequence 6427, Application US/11096568A
Publication No. US20060048240A1
GENERAL INFORMATION:

APPLICANT: Alexandrov, Nickolai et al.
TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
TITLE OF INVENTION: Theby
FILE REFERENCE: 2750-1592PUS2
CURRENT APPLICATION NUMBER: US/11/096,568A
CURRENT FILING DATE: 2005-04-01
NUMBER OF SEQ ID NOS: 34471
SEQ ID NO 6427
LENGTH: 526
TYPE: PRT
ORGANISM: Glycine max

FEATURE:
NAME/KEY: misc feature
LOCATION: (1) ..(526)
OTHER INFORMATION: Ceres Seq. ID no. 14315147
US-11-096-568A-6427

Query Match 66.0%; Score 31; DB 11; Length 526;
Best Local Similarity 55.6%; Pred. No. 1.7e+02;
Matches 5; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 1 HVDIETLED 9
DB 185 HIDEPTLAD 193

DB 198 HIDEPTLAD 206

RESULT 38
US-11-087-099-6344
Sequence 6344, Application US/11087099
Publication No. US20060041961A1
GENERAL INFORMATION:

APPLICANT: Abad, Mark S. et al.
TITLE OF INVENTION: Genes and Uses for Plant Improvement
FILE REFERENCE: 38-21(53450)B BP
CURRENT APPLICATION NUMBER: US/11/087,099
CURRENT FILING DATE: 2005-03-22
NUMBER OF SEQ ID NOS: 12464
SEQ ID NO 6344
LENGTH: 559
TYPE: PRT
ORGANISM: Pirellula sp.

US-11-087-099-6344

Query Match 66.0%; Score 31; DB 11; Length 559;
Best Local Similarity 85.7%; Pred. No. 1.8e+02;
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 3 DIETLED 9
DB 59 EITLED 65

RESULT 39
US-11-096-568A-33313
Sequence 33313, Application US/11096568A
Publication No. US20060048240A1
GENERAL INFORMATION:

APPLICANT: Alexandrov, Nickolai et al.
TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
TITLE OF INVENTION: Theby
FILE REFERENCE: 2750-1592PUS2
CURRENT APPLICATION NUMBER: US/11/096,568A
CURRENT FILING DATE: 2005-04-01
NUMBER OF SEQ ID NOS: 34471
SEQ ID NO 33313
LENGTH: 559
TYPE: PRT
ORGANISM: Arabidopsis thaliana

FEATURE:
NAME/KEY: misc feature
LOCATION: (1) ..(559)
OTHER INFORMATION: Ceres Seq. ID no. 13602719
US-11-096-568A-33313

Query Match 66.0%; Score 31; DB 11; Length 559;
Best Local Similarity 44.4%; Pred. No. 1.8e+02;
Matches 4; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

QY 1 HVDIETLED 9
DB 305 HVEVAVED 313

RESULT 40
US-11-264-096-2172
Sequence 2172, Application US/11264096
Publication No. US20060084794A1
GENERAL INFORMATION:

APPLICANT: Rosen et al.
TITLE OF INVENTION: Albumin Fusion Proteins
FILE REFERENCE: PFS46D1
CURRENT APPLICATION NUMBER: US/11/264,096
CURRENT FILING DATE: 2005-11-02
PRIOR APPLICATION NUMBER: 09/833,245
PRIOR FILING DATE: 2001-04-12
PRIOR APPLICATION NUMBER: 60/229, 358

```

; PRIOR FILING DATE: 2000-04-12
; PRIOR APPLICATION NUMBER: 60/256, 931
; PRIOR FILING DATE: 2000-12-21
; PRIOR APPLICATION NUMBER: 60/199, 384
; PRIOR FILING DATE: 2000-04-25
; NUMBER OF SEQ ID NOS: 2267
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2172
; LENGTH: 613
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-264-096-2172
```

```

Query Match          66.0%; Score 31; DB 11; Length 613;
Best Local Similarity 71.4%; Pred. No. 2e+02;
Matches 5; Conservative 2; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 HVDIRTL 7
        |||:|
Db      295 HVDVQTL 301
```

```

RESULT 41
US-11-264-096-2174
; Sequence 2174, Application US/11264096
; Publication No. US20060084794A1
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: Albumin Fusion Proteins
; FILE REFERENCE: PFS46D1
; CURRENT APPLICATION NUMBER: US/11/264,096
; CURRENT FILING DATE: 2005-11-02
; PRIOR APPLICATION NUMBER: 09/833,245
; PRIOR FILING DATE: 2001-04-12
; PRIOR APPLICATION NUMBER: 60/229, 358
; PRIOR FILING DATE: 2000-04-12
; PRIOR APPLICATION NUMBER: 60/256, 931
; PRIOR FILING DATE: 2000-12-21
; PRIOR APPLICATION NUMBER: 60/199, 384
; PRIOR FILING DATE: 2000-04-25
; NUMBER OF SEQ ID NOS: 2267
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2174
; LENGTH: 613
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: SITE
; LOCATION: (507)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
US-11-264-096-2174
```

```

Query Match          66.0%; Score 31; DB 11; Length 613;
Best Local Similarity 71.4%; Pred. No. 2e+02;
Matches 5; Conservative 2; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 HVDIRTL 7
        |||:|
Db      295 HVDVQTL 301
```

```

RESULT 42
US-11-043-004-1606
; Sequence 1606, Application US/11045004
; Publication No. US20060078901A1
; GENERAL INFORMATION:
; APPLICANT: BUCHRISER, CARMEN
; APPLICANT: FRANGIEL, LIONEL
; APPLICANT: COUVE, ELISABETH
; APPLICANT: RUSNIOK, CHRISTOPHE
; APPLICANT: FSIHI, HAIDA
; APPLICANT: DEHOUX, PIERRE
; APPLICANT: DUSSURGET, OLIVIER
```

```

; APPLICANT: CHETOUANI, FARID
; APPLICANT: MEDJARI, HAPED
; APPLICANT: GLASER, PHILIPPE
; APPLICANT: KUNST, FRANCK
; APPLICANT: COSSANT, PASCALE
; APPLICANT: DANIELS, JUSTIN
; APPLICANT: GOEBEL, WERNER
; APPLICANT: KREFT, JURGEN
; APPLICANT: KUHN, MICHAEL
; APPLICANT: NG, EVA
; APPLICANT: VAZQUEZ-BOLAND, ANTONIO
; APPLICANT: DOMINGUEZ-BERNAL, GUSTAVO
; APPLICANT: GARRIDO-GARCIA, PATRICIA
; APPLICANT: TIERREZ-WARTINEZ, ALBERTO
; APPLICANT: AMEND, ALEXANDRA
; APPLICANT: CHAKRABORTY, TRINAD
; APPLICANT: DOMANN, EUGEN
; APPLICANT: HAIN, THORSTEN
; APPLICANT: BERCHE, PATRICK
; APPLICANT: CHARBIT, ALAIN
; APPLICANT: DURANT, LIONEL
; APPLICANT: PEREZ-DIAZ, JOSE-CLAUDIO
; APPLICANT: BAQUERO, FERNANDO
; APPLICANT: GARCIA DEL PORTILLO, FRANCISCO
; APPLICANT: GOMEZ-LOPEZ, NURIA
; APPLICANT: MADUENIO, ENCARRA
; APPLICANT: PABLOS, BETRIZ DE
; APPLICANT: WEHLAND, JURGEN
; APPLICANT: KARST, UWE
; APPLICANT: ENTIAN, KARL-DIETER
; APPLICANT: HAUF, JORG
; APPLICANT: ROSE, MATTHIAS
; APPLICANT: VOSS, HAMUT
; TITLE OF INVENTION: LISTERIA MONOCYTOGENES GENOME, POLYPEPTIDES AND USES
; FILE REFERENCE: 05394.0018-02
; CURRENT APPLICATION NUMBER: US/11/045,004
; CURRENT FILING DATE: 2005-01-28
; PRIOR APPLICATION NUMBER: 10/637,657
; PRIOR FILING DATE: 2003-08-11
; PRIOR APPLICATION NUMBER: 10/257,023
; PRIOR FILING DATE: 2002-10-08
; PRIOR APPLICATION NUMBER: PCT/FR01/01118
; PRIOR FILING DATE: 2001-04-11
; PRIOR APPLICATION NUMBER: PR 00/04,629
; PRIOR FILING DATE: 2000-04-11
; NUMBER OF SEQ ID NOS: 2854
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1606
; LENGTH: 153
; TYPE: PRT
; ORGANISM: Listeria monocytogenes
US-11-043-004-1606
```

```

Query Match          63.8%; Score 30; DB 11; Length 153;
Best Local Similarity 55.6%; Pred. No. 63;
Matches 5; Conservative 2; Mismatches 2; Indels 0; Gaps 0;
```

```
QY      1 HVDIRTTLED 9
        |||:|
Db      77 HMDVYRLLED 85
```

```

RESULT 43
US-11-096-568A-3036
; Sequence 3036, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
; APPLICANT: Alexandrov, Nikolai et al.
; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
; FILE REFERENCE: 2750-1592PUS2
; CURRENT APPLICATION NUMBER: US/11/096,568A
; CURRENT FILING DATE: 2005-04-01
```

```
; NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 3036
; LENGTH: 159
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1)..(159)
; OTHER INFORMATION: Ceres Seq. ID no. 15169851
US-11-096-568A-3036
```

```
Query Match          63.8%; Score 30; DB 11; Length 159;
Best Local Similarity 44.4%; Pred. No. 66;
Matches 4; Conservative 4; Mismatches 1; Indels 0; Gaps 0;
```

```
QY 1 HVDIRTLIED 9
   |||::|:
Db 22 HVDVKTIDN 30
```

```
RESULT 44
US-11-087-099-2156
; Sequence 2156, Application US/11087099
; Publication No. US20060041961A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: Genes and Uses for Plant Improvement
; FILE REFERENCE: 38-21(53450)B EP
; CURRENT APPLICATION NUMBER: US/11/087,099
; CURRENT FILING DATE: 2005-03-22
; NUMBER OF SEQ ID NOS: 12464
; SEQ ID NO 2156
; LENGTH: 182
; TYPE: PRT
; ORGANISM: Glycine max
US-11-087-099-2156
```

```
Query Match          63.8%; Score 30; DB 11; Length 182;
Best Local Similarity 55.6%; Pred. No. 78;
Matches 5; Conservative 2; Mismatches 2; Indels 0; Gaps 0;
```

```
QY 1 HVDIRTLIED 9
   |||::|:
Db 69 HVDVATLSN 77
```

```
RESULT 45
US-11-087-099-2179
; Sequence 2179, Application US/11087099
; Publication No. US20060041961A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: Genes and Uses for Plant Improvement
; FILE REFERENCE: 38-21(53450)B EP
; CURRENT APPLICATION NUMBER: US/11/087,099
; CURRENT FILING DATE: 2005-03-22
; NUMBER OF SEQ ID NOS: 12464
; SEQ ID NO 2179
; LENGTH: 240
; TYPE: PRT
; ORGANISM: Deinococcus radiodurans
US-11-087-099-2179
```

```
Query Match          63.8%; Score 30; DB 11; Length 240;
Best Local Similarity 55.6%; Pred. No. 1.1e+02;
Matches 5; Conservative 2; Mismatches 2; Indels 0; Gaps 0;
```

```
QY 1 HVDIRTLIED 9
   |||::|:
Db 59 HVDPLTLIED 67
```

RESULT 46

```
US-11-087-099-5360
; Sequence 5360, Application US/11087099
; Publication No. US20060041961A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: Genes and Uses for Plant Improvement
; FILE REFERENCE: 38-21(53450)B EP
; CURRENT APPLICATION NUMBER: US/11/087,099
; CURRENT FILING DATE: 2005-03-22
; NUMBER OF SEQ ID NOS: 12464
; SEQ ID NO 5360
; LENGTH: 246
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)..(246)
; OTHER INFORMATION: unsure at all Xaa locations
US-11-087-099-5360
```

```
Query Match          63.8%; Score 30; DB 11; Length 246;
Best Local Similarity 55.6%; Pred. No. 1.1e+02;
Matches 5; Conservative 2; Mismatches 2; Indels 0; Gaps 0;
```

```
QY 1 HVDIRTLIED 9
   |||::|:
Db 64 HVDVATLSN 72
```

```
RESULT 47
US-11-096-568A-3035
; Sequence 3035, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
; APPLICANT: Alexandrov, Nikolai et al.
; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
; FILE REFERENCE: 2750-1592PUS2
; CURRENT APPLICATION NUMBER: US/11/096,568A
; CURRENT FILING DATE: 2005-04-01
; NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 3035
; LENGTH: 261
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1)..(261)
; OTHER INFORMATION: Ceres Seq. ID no. 15169850
US-11-096-568A-3035
```

```
Query Match          63.8%; Score 30; DB 11; Length 261;
Best Local Similarity 44.4%; Pred. No. 1.2e+02;
Matches 4; Conservative 4; Mismatches 1; Indels 0; Gaps 0;
```

```
QY 1 HVDIRTLIED 9
   |||::|:
Db 124 HVDVKTIDN 132
```

```
RESULT 48
US-11-096-568A-3037
; Sequence 3037, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
; APPLICANT: Alexandrov, Nikolai et al.
; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
; FILE REFERENCE: 2750-1592PUS2
; CURRENT APPLICATION NUMBER: US/11/096,568A
; CURRENT FILING DATE: 2005-04-01
; NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 3037
```

Job time : 9.4 secs

```
; LENGTH: 261
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1)-(261)
; OTHER INFORMATION: Ceres Seq. ID no. 16625534
US-11-096-568A-3037
```

```
Query Match 63.8%; Score 30; DB 11; Length 261;
Best Local Similarity 44.4%; Pred. No. 1.2e+02;
Matches 4; Conservative 4; Mismatches 1; Indels 0; Gaps 0;
```

```
OY 1 HVDIRTLSD 9
| | | | |
Db 124 HVDVKTIDN 132
```

```
RESULT 49
US-11-087-099-478
; Sequence 478, Application US/11087099
; Publication No. US20060041961a1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: Genes and Uses for Plant Improvement
; FILE REFERENCE: 38-21(53450)B EP
; CURRENT APPLICATION NUMBER: US/11/087,099
; NUMBER OF SEQ ID NOS: 12464
; SEQ ID NO 478
; LENGTH: 338
; TYPE: PRT
; ORGANISM: Saccharomyces cerevisiae
US-11-087-099-478
```

```
Query Match 63.8%; Score 30; DB 11; Length 338;
Best Local Similarity 55.6%; Pred. No. 1.6e+02;
Matches 5; Conservative 3; Mismatches 1; Indels 0; Gaps 0;
```

```
OY 1 HVDIRTLSD 9
| | | | |
Db 51 HLKIKSLSD 59
```

```
RESULT 50
US-11-188-298-4023
; Sequence 4023, Application US/11188298
; Publication No. US20060075522a1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
; FILE REFERENCE: 38-21(53452)B
; CURRENT APPLICATION NUMBER: US/11/188,298
; CURRENT FILING DATE: 2005-07-22
; PRIOR APPLICATION NUMBER: 60/592,978
; PRIOR FILING DATE: 2004-07-31
; NUMBER OF SEQ ID NOS: 22569
; SEQ ID NO 4023
; LENGTH: 355
; TYPE: PRT
; ORGANISM: Phytophthora infestans
US-11-188-298-4023
```

```
Query Match 63.8%; Score 30; DB 11; Length 355;
Best Local Similarity 85.7%; Pred. No. 1.7e+02;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
OY 3 DIRTLSD 9
| | | | |
Db 108 DIRTLSD 114
```

. Search completed: May 5, 2006, 08:29:49

GenCore version 5.1.7
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OM protein - protein search, using sw model

Run on: May 5, 2006, 02:25:57 ; Search time 20.7 Seconds
(without alignments)
35.946 Million cell updates/sec

Title: US-08-170-344-41
Perfect score: 51
Sequence: 1 ILLICVYCK 9

Scoring table: BIOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 572060 seqs, 82675679 residues

Total number of hits satisfying chosen parameters: 572060

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 1000 summaries

Database : Issued Patents AA:
1: /cgn2_6/ptodata/1/1aa/5-COMB.pep:*
2: /cgn2_6/ptodata/1/1aa/6-COMB.pep:*
3: /cgn2_6/ptodata/1/1aa/H-COMB.pep:*
4: /cgn2_6/ptodata/1/1aa/RE-COMB.pep:*
5: /cgn2_6/ptodata/1/1aa/BACKFILE1.pep:*
6: /cgn2_6/ptodata/1/1aa/BACKFILE1.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	51	100.0	9	2	US-08-159-339A-570
2	51	100.0	10	2	US-08-159-339A-573
3	51	100.0	20	1	US-08-934-915-160
4	51	100.0	30	2	US-09-980-523A-4
5	51	100.0	151	2	US-09-701-080C-18
6	51	100.0	158	2	US-09-523A-2
7	51	100.0	162	1	US-08-316-239B-3
8	51	100.0	162	1	US-08-316-239B-4
9	51	100.0	172	2	US-08-860-165-14
10	51	100.0	172	2	US-09-359-382-14
11	51	100.0	182	1	US-08-117-083-10
12	51	100.0	243	2	US-09-462-993-1
13	51	100.0	266	2	US-08-860-165-10
14	51	100.0	266	2	US-09-359-382-10
15	51	100.0	266	2	US-09-367-309A-1
16	51	100.0	273	2	US-09-485-885-4
17	51	100.0	292	2	US-09-485-885-10
18	51	100.0	371	2	US-09-485-885-6
19	51	100.0	390	2	US-09-485-885-14
20	37	72.5	10	2	US-08-159-339A-73
21	37	72.5	986	2	US-09-248-796A-19088
22	36	70.6	15	2	US-08-159-339A-1176
23	36	70.6	32	2	US-08-466-285-2
24	36	70.6	32	2	US-08-164-768-2
25	36	70.6	158	2	US-08-247-904B-10
26	36	70.6	158	2	US-08-767-942A-19
27	36	70.6	271	1	US-08-117-083-14

28	36	70.6	278	2	US-09-485-885-21	Sequence 21, Appl
29	36	70.6	383	2	US-09-485-885-23	Sequence 23, Appl
30	36	70.6	959	2	US-09-270-767-39036	Sequence 39036, A
31	36	70.6	959	2	US-09-270-767-54253	Sequence 54253, A
32	35	68.6	65	2	US-09-732-210-490	Sequence 490, App
33	35	68.6	102	2	US-09-732-210-1066	Sequence 1066, Ap
34	35	68.6	105	2	US-09-732-210-1058	Sequence 1058, Ap
35	35	68.6	105	2	US-09-732-210-1067	Sequence 1067, Ap
36	35	68.6	106	1	US-08-557-128-6	Sequence 6, Appl
37	35	68.6	106	2	US-09-242-690A-39	Sequence 39, Appl
38	35	68.6	106	2	US-09-732-210-370	Sequence 370, App
39	35	68.6	106	2	US-09-908-885-39	Sequence 39, Appl
40	35	68.6	106	2	US-09-674-826B-2	Sequence 2, Appl
41	35	68.6	111	2	US-09-248-796A-19756	Sequence 61408, A
42	35	68.6	144	2	US-09-270-767-61408	Sequence 14192, A
43	35	68.6	193	2	US-09-248-796A-14192	Sequence 45876, A
44	35	68.6	341	2	US-09-270-767-45876	Sequence 2, Appl
45	35	68.6	486	2	US-09-517-639-2	Sequence 2, Appl
46	35	68.6	486	2	US-08-904-452-4	Sequence 4, Appl
47	35	68.6	973	2	US-09-517-639-4	Sequence 16119, A
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49	35	68.6	4302	2	US-08-658-136-5	Sequence 8, Appl
50	35	68.6	4302	2	US-09-052-469-8	Sequence 8, Appl
51	35	68.6	4302	2	US-08-422-582-8	Sequence 8, Appl
52	35	68.6	4302	2	US-09-052-262-8	Sequence 8, Appl
53	35	68.6	4302	1	US-08-460-751-2	Sequence 2, Appl
54	35	68.6	4303	1	US-09-479-467A-2	Sequence 2, Appl
55	35	68.6	4303	2	US-09-655-160-2	Sequence 2, Appl
56	35	68.6	4339	2	US-09-052-469-6	Sequence 6, Appl
57	35	68.6	4339	2	US-08-422-582-6	Sequence 6, Appl
58	35	68.6	4339	2	US-08-052-262-6	Sequence 6, Appl
59	35	68.6	4339	2	US-08-159-339A-575	Sequence 575, App
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61	34	66.7	105	2	US-09-732-210-1069	Sequence 1069, App
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63	34	66.7	144	2	US-09-270-767-43293	Sequence 43293, A
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67	34	66.7	364	2	US-08-706-945D-141	Sequence 2, Appl
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69	34	66.7	401	2	US-08-974-022-4	Sequence 13, Appl
70	34	66.7	401	2	US-09-042-785A-13	Sequence 2, Appl
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77	34	66.7	401	2	US-08-795-446B-2	Sequence 2, Appl
78	34	66.7	401	2	US-08-795-446B-2	Sequence 4, Appl
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80	34	66.7	401	2	US-08-706-945D-126	Sequence 126, App
81	34	66.7	401	2	US-08-577-788C-2	Sequence 2, Appl
82	34	66.7	401	2	US-08-577-788C-4	Sequence 4, Appl
83	34	66.7	401	2	US-08-577-788C-4	Sequence 54, Appl
84	34	66.7	401	2	US-08-577-788C-4	Sequence 55, Appl
85	34	66.7	401	2	US-08-577-788C-55	Sequence 5, Appl
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89	34	66.7	783	2	US-09-949-016-15018	Sequence 9908, Ap
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95	33	64.7	232	2	US-09-199-637A-37	Sequence 26533, A
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102	33	64.7	675	2	US-09-949-016-7246	Sequence 7246, Ap	175	31	60.8	17	2	US-09-128-344A-130	Sequence 130, App
103	33	64.7	738	2	US-09-248-796A-16666	Sequence 16666, A	176	31	60.8	17	5	US-10-255-011-21	Sequence 21, Appl
104	33	64.7	1102	2	US-09-364-609-8	Sequence 8, Appl1	177	31	60.8	17	5	US-10-255-011-109	Sequence 109, App
105	33	64.7	1444	2	US-09-949-016-9652	Sequence 9652, Ap	178	31	60.8	17	5	US-10-255-011-130	Sequence 130, App
106	33	64.7	2004	2	US-09-538-092-1371	Sequence 1371, Ap	179	31	60.8	18	2	US-09-128-344A-120	Sequence 29, Appl
107	33	64.7	2004	2	US-09-949-016-6756	Sequence 6756, Ap	180	31	60.8	18	2	US-09-128-344A-113	Sequence 113, App
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110	32	62.7	18	2	US-09-128-344A-43	Sequence 43, Appl	183	31	60.8	18	5	US-10-255-011-113	Sequence 113, App
111	32	62.7	18	2	US-09-128-344A-118	Sequence 118, App	184	31	60.8	18	5	US-10-255-011-134	Sequence 134, App
112	32	62.7	18	2	US-09-128-344A-120	Sequence 120, App	185	31	60.8	26	1	US-08-620-151-6	Sequence 6, Appl1
113	32	62.7	18	2	US-09-128-344A-139	Sequence 139, App	186	31	60.8	26	1	US-08-620-151-103	Sequence 103, App
114	32	62.7	18	2	US-09-128-344A-141	Sequence 141, App	187	31	60.8	42	2	US-09-270-767-51098	Sequence 35881, A
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118	32	62.7	18	5	US-10-255-011-120	Sequence 120, App	191	31	60.8	92	2	US-09-216-393A-133	Sequence 133, App
119	32	62.7	18	5	US-10-255-011-139	Sequence 139, App	192	31	60.8	92	2	US-09-248-796A-26026	Sequence 26026, A
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122	32	62.7	55	2	US-09-513-999C-7078	Sequence 7078, Ap	195	31	60.8	103	2	US-09-973-278-367	Sequence 367, App
123	32	62.7	65	2	US-09-732-210-496	Sequence 496, App	196	31	60.8	105	2	US-09-732-210-371	Sequence 371, App
124	32	62.7	66	2	US-09-732-210-489	Sequence 489, App	197	31	60.8	105	2	US-09-732-210-1056	Sequence 1056, Ap
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126	32	62.7	95	2	US-09-270-767-39168	Sequence 39168, A	199	31	60.8	106	1	US-08-175-188-1	Sequence 1063, Ap
127	32	62.7	95	2	US-09-270-767-54385	Sequence 54385, A	200	31	60.8	106	1	US-08-175-188-1	Sequence 1, Appl1
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129	32	62.7	107	2	US-09-270-767-52804	Sequence 52804, A	202	31	60.8	106	1	US-08-818-726-1	Sequence 1, Appl1
130	32	62.7	127	2	US-09-270-767-51524	Sequence 51524, A	203	31	60.8	106	2	US-10-232-858-78	Sequence 78, Appl
131	32	62.7	134	2	US-09-248-796A-19660	Sequence 19660, A	204	31	60.8	106	2	US-09-338-063A-78	Sequence 78, Appl
132	32	62.7	134	2	US-09-248-796A-22603	Sequence 22603, A	205	31	60.8	110	2	US-08-545-809A-129	Sequence 129, App
133	32	62.7	137	2	US-09-270-767-41265	Sequence 41265, A	206	31	60.8	110	2	US-09-515-697-129	Sequence 129, App
134	32	62.7	137	2	US-09-270-767-56481	Sequence 56481, A	207	31	60.8	116	2	US-09-543-681A-8252	Sequence 8252, Ap
135	32	62.7	146	2	US-09-489-039A-7386	Sequence 7386, Ap	208	31	60.8	116	2	US-09-489-039A-13615	Sequence 13615, A
136	32	62.7	150	2	US-09-270-767-36233	Sequence 36233, A	209	31	60.8	124	2	US-10-104-047-2173	Sequence 2173, Ap
137	32	62.7	150	2	US-09-270-767-51450	Sequence 51450, A	210	31	60.8	126	2	US-09-621-976-3989	Sequence 3989, Ap
138	32	62.7	154	2	US-09-489-039A-8760	Sequence 8760, Ap	211	31	60.8	126	2	US-09-583-110-4644	Sequence 4644, Ap
139	32	62.7	202	2	US-09-270-767-94039	Sequence 94039, A	212	31	60.8	138	2	US-09-134-001C-4660	Sequence 4660, Ap
140	32	62.7	202	2	US-09-270-767-94256	Sequence 94256, A	213	31	60.8	139	2	US-08-706-945D-130	Sequence 130, App
141	32	62.7	254	2	US-10-104-047-3921	Sequence 3921, Ap	214	31	60.8	144	2	US-10-104-047-2173	Sequence 2173, Ap
142	32	62.7	255	2	US-09-134-001C-3498	Sequence 3498, Ap	215	31	60.8	144	2	US-09-338-063A-77	Sequence 77, Appl
143	32	62.7	262	2	US-09-270-767-72820	Sequence 72820, A	216	31	60.8	144	1	US-08-786-606-7	Sequence 1, Appl1
144	32	62.7	292	2	US-10-357-886-28	Sequence 28, Appl	217	31	60.8	144	1	US-08-786-606-7	Sequence 7, Appl1
145	32	62.7	292	2	US-10-357-886-28	Sequence 28, Appl	218	31	60.8	144	2	US-09-248-796A-25163	Sequence 25163, A
146	32	62.7	352	2	US-10-272-419-24	Sequence 24, Appl	219	31	60.8	144	2	US-09-538-092-1105	Sequence 1105, Ap
147	32	62.7	352	2	US-10-272-419-24	Sequence 24, Appl	220	31	60.8	145	2	US-10-232-858-15	Sequence 15, Appl
148	32	62.7	368	2	US-10-011-749-40	Sequence 20, Appl	221	31	60.8	145	2	US-09-338-063A-15	Sequence 15, Appl
149	32	62.7	368	2	US-10-011-749-40	Sequence 20, Appl	222	31	60.8	146	2	US-09-523-323-58	Sequence 58, Appl
150	32	62.7	375	2	US-09-000-094-32	Sequence 22, Appl	223	31	60.8	147	2	US-09-527-236A-20	Sequence 20, Appl
151	32	62.7	375	2	US-09-328-352-7360	Sequence 7360, Ap	224	31	60.8	147	2	US-09-134-000C-4261	Sequence 4261, Ap
152	32	62.7	375	2	US-10-011-749-42	Sequence 22, Appl	225	31	60.8	147	2	US-09-756-854-20	Sequence 20, Appl
153	32	62.7	383	2	US-09-543-681A-5082	Sequence 5082, Ap	226	31	60.8	147	2	US-10-041-574-20	Sequence 20, Appl
154	32	62.7	414	2	US-09-248-796A-16749	Sequence 16749, A	227	31	60.8	147	2	US-09-095-094-20	Sequence 20, Appl
155	32	62.7	465	2	US-09-000-094-34	Sequence 24, Appl	228	31	60.8	151	2	US-09-252-991A-31495	Sequence 31495, A
156	32	62.7	465	2	US-10-011-749-24	Sequence 24, Appl	229	31	60.8	151	2	US-09-107-433-4594	Sequence 4594, Ap
157	32	62.7	474	2	US-09-354-221-2	Sequence 2, Appl1	230	31	60.8	154	2	US-10-232-858-13	Sequence 13, Appl
158	32	62.7	474	2	US-09-808-387-42	Sequence 42, Appl	231	31	60.8	154	2	US-09-338-063A-13	Sequence 13, Appl
159	32	62.7	487	2	US-09-949-016-10111	Sequence 10111, A	232	31	60.8	158	2	US-09-422-860A-24	Sequence 24, Appl
160	32	62.7	501	2	US-09-248-796A-18735	Sequence 18735, A	233	31	60.8	160	1	US-08-612-788-34	Sequence 34, Appl
161	32	62.7	524	2	US-09-171-553B-4	Sequence 4, Appl1	234	31	60.8	160	2	US-09-066-028-34	Sequence 34, Appl
162	32	62.7	538	2	US-09-309-572-12	Sequence 12, Appl	235	31	60.8	160	2	US-09-335-325-34	Sequence 34, Appl
163	32	62.7	538	2	US-09-309-572-12	Sequence 12, Appl	236	31	60.8	160	2	US-09-335-614-34	Sequence 34, Appl
164	32	62.7	557	2	US-09-138-277C-3	Sequence 3, Appl1	237	31	60.8	161	2	US-09-632-277A-3	Sequence 3, Appl1
165	32	62.7	558	2	US-09-138-277C-1	Sequence 1, Appl1	238	31	60.8	166	2	US-09-270-767-49127	Sequence 49127, A
166	32	62.7	598	2	US-09-270-767-61572	Sequence 61572, A	239	31	60.8	167	2	US-10-232-858-81	Sequence 81, Appl
167	32	62.7	782	2	US-09-244-805-21	Sequence 21, Appl	240	31	60.8	187	2	US-09-338-063A-81	Sequence 81, Appl
168	32	62.7	1312	2	US-09-554-572-36	Sequence 26, Appl	241	31	60.8	197	2	US-10-332-858-76	Sequence 76, Appl
169	32	62.7	1587	2	US-09-000-094-46	Sequence 46, Appl	242	31	60.8	197	2	US-09-338-063A-76	Sequence 76, Appl
170	32	62.7	1587	2	US-10-011-749-46	Sequence 46, Appl	243	31	60.8	210	2	US-08-985-526-21	Sequence 21, Appl
171	32	62.7	1737	2	US-09-309-572-13	Sequence 13, Appl	244	31	60.8	217	2	US-09-152-060-71	Sequence 71, Appl
172	32	62.7	1737	2	US-09-718-096-13	Sequence 13, Appl	245	31	60.8	217	2	US-09-852-797-71	Sequence 71, Appl
173	31	60.8	17	2	US-09-128-344A-21	Sequence 21, Appl	246	31	60.8	217	2	US-09-853-161-71	Sequence 71, Appl

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249	31	60.8	246	2	US-09-949-016-6635	Sequence 6635, Ap	322	31	60.8	401	2	US-08-795-445A-6	Sequence 6, Appl1
250	31	60.8	250	1	US-08-612-788-39	Sequence 29, Appl	323	31	60.8	401	2	US-08-795-447A-6	Sequence 6, Appl1
251	31	60.8	250	2	US-09-066-028-29	Sequence 29, Appl	324	31	60.8	401	2	US-08-974-186-6	Sequence 6, Appl1
252	31	60.8	250	2	US-09-335-325-29	Sequence 29, Appl	325	31	60.8	401	2	US-08-795-446B-6	Sequence 6, Appl1
253	31	60.8	250	2	US-09-335-614-29	Sequence 29, Appl	326	31	60.8	401	2	US-09-153-927-1	Sequence 1, Appl1
254	31	60.8	253	2	US-09-489-039A-9280	Sequence 15, Appl	327	31	60.8	401	2	US-09-072-993C-1	Sequence 128, App
255	31	60.8	263	2	US-09-662-254B-15	Sequence 75, Appl	328	31	60.8	401	2	US-08-706-945D-128	Sequence 6, Appl1
256	31	60.8	272	2	US-10-233-858-75	Sequence 75, Appl	329	31	60.8	401	2	US-08-577-788C-56	Sequence 56, Appl
257	31	60.8	272	2	US-09-338-063A-75	Sequence 40146, A	330	31	60.8	401	2	US-09-064-832-2	Sequence 2, Appl1
258	31	60.8	273	2	US-09-270-767-40146	Sequence 53362, A	331	31	60.8	401	2	US-10-232-858-5	Sequence 5, Appl1
259	31	60.8	273	2	US-09-270-767-55362	Sequence 2850, Ap	332	31	60.8	401	2	US-10-232-858-63	Sequence 62, Appl
260	31	60.8	286	2	US-10-104-047-2850	Sequence 11494, A	333	31	60.8	401	2	US-10-232-858-64	Sequence 64, Appl
261	31	60.8	290	2	US-09-489-039A-11494	Sequence 18, Appl	334	31	60.8	401	2	US-10-232-858-65	Sequence 65, Appl
262	31	60.8	293	2	US-09-896-096A-18	Sequence 9896, Ap	335	31	60.8	401	2	US-10-232-858-66	Sequence 66, Appl
263	31	60.8	295	2	US-09-948-016-9896	Sequence 8420, Ap	336	31	60.8	401	2	US-10-232-858-66	Sequence 66, Appl
264	31	60.8	297	2	US-09-543-681A-6846	Sequence 13560, A	337	31	60.8	401	2	US-09-338-063A-5	Sequence 63, Appl
265	31	60.8	320	2	US-09-489-039A-8420	Sequence 80, Appl	338	31	60.8	401	2	US-09-338-063A-62	Sequence 64, Appl
266	31	60.8	321	2	US-10-233-858-80	Sequence 80, Appl	339	31	60.8	401	2	US-09-338-063A-63	Sequence 65, Appl
267	31	60.8	321	2	US-09-338-063A-80	Sequence 71, Appl	340	31	60.8	401	2	US-09-338-063A-64	Sequence 66, Appl
268	31	60.8	326	2	US-10-232-858-71	Sequence 71, Appl	341	31	60.8	401	2	US-09-338-063A-65	Sequence 67, Appl
269	31	60.8	326	2	US-09-338-063A-71	Sequence 72, Appl	342	31	60.8	401	2	US-09-338-063A-66	Sequence 68, Appl
270	31	60.8	327	2	US-10-232-858-72	Sequence 72, Appl	343	31	60.8	401	2	US-09-450-790A-13	Sequence 3, Appl1
271	31	60.8	327	2	US-09-338-063A-72	Sequence 2, Appl1	344	31	60.8	422	1	US-07-817-920-3	Sequence 3, Appl1
272	31	60.8	339	1	US-08-248-629A-2	Sequence 2, Appl1	345	31	60.8	422	1	US-08-370-542-3	Sequence 3, Appl1
273	31	60.8	339	1	US-08-451-932-2	Sequence 2, Appl1	346	31	60.8	422	1	US-08-117-006-3	Sequence 3, Appl1
274	31	60.8	339	1	US-08-452-260-2	Sequence 2, Appl1	347	31	60.8	422	1	US-08-216-594-3	Sequence 3, Appl1
275	31	60.8	339	1	US-08-326-785-2	Sequence 2, Appl1	348	31	60.8	422	1	US-08-542-358-3	Sequence 3, Appl1
276	31	60.8	339	1	US-08-612-788-2	Sequence 2, Appl1	349	31	60.8	422	1	US-08-157-185-13	Sequence 13, Appl
277	31	60.8	339	1	US-08-605-598B-2	Sequence 2, Appl1	350	31	60.8	422	2	US-08-281-526B-13	Sequence 3, Appl1
278	31	60.8	339	1	US-08-429-743-2	Sequence 2, Appl1	351	31	60.8	422	2	US-09-018-351-3	Sequence 13, Appl
279	31	60.8	339	1	US-08-866-735-2	Sequence 2, Appl1	352	31	60.8	422	2	US-09-332-837-13	Sequence 13, Appl
280	31	60.8	339	1	US-09-066-028-2	Sequence 2, Appl1	353	31	60.8	422	4	PCT-US93-00149-3	Sequence 23, Appl
281	31	60.8	339	2	US-09-335-325-2	Sequence 2, Appl1	354	31	60.8	422	2	US-09-328-352-6119	Sequence 24572, A
282	31	60.8	339	2	US-09-335-614-2	Sequence 2, Appl1	355	31	60.8	422	2	PCT-US96-00294-4	Sequence 4, Appl1
283	31	60.8	339	4	PCT-US95-05107-2	Sequence 2, Appl1	356	31	60.8	458	4	US-09-605-049A-41	Sequence 1, Appl
284	31	60.8	340	2	US-09-821-803A-2	Sequence 74, Appl	357	31	60.8	459	2	US-09-054-272-36	Sequence 36, Appl
285	31	60.8	351	2	US-10-232-858-74	Sequence 39, Appl	358	31	60.8	499	2	US-09-054-272-51	Sequence 5, Appl1
286	31	60.8	351	2	US-09-338-063A-74	Sequence 39, Appl	359	31	60.8	505	2	US-09-257-581-7	Sequence 7, Appl1
287	31	60.8	352	1	US-08-612-788-39	Sequence 39, Appl	360	31	60.8	513	2	US-09-949-016-761	Sequence 58737, A
288	31	60.8	352	1	US-09-066-028-39	Sequence 39, Appl	361	31	60.8	514	2	US-09-270-767-58737	Sequence 10847, A
289	31	60.8	352	2	US-09-335-325-39	Sequence 39, Appl	362	31	60.8	520	2	US-09-949-016-10847	Sequence 3319, Ap
290	31	60.8	352	2	US-09-335-614-39	Sequence 39, Appl	363	31	60.8	763	2	US-09-540-236-3319	Sequence 1, Appl1
291	31	60.8	358	2	US-09-252-991A-27389	Sequence 70, Appl	364	31	60.8	812	1	US-08-248-629A-1	Sequence 1, Appl1
292	31	60.8	359	2	US-10-232-858-70	Sequence 69, Appl	365	31	60.8	812	1	US-08-451-932-1	Sequence 1, Appl1
293	31	60.8	359	2	US-09-338-063A-70	Sequence 67, Appl	366	31	60.8	812	1	US-08-326-785-1	Sequence 1, Appl1
294	31	60.8	360	2	US-10-232-858-67	Sequence 67, Appl	367	31	60.8	812	1	US-08-612-788-1	Sequence 1, Appl1
295	31	60.8	360	2	US-09-338-063A-67	Sequence 11, Appl	368	31	60.8	812	1	US-08-429-744-1	Sequence 1, Appl1
296	31	60.8	362	2	US-10-232-858-11	Sequence 3, Appl1	369	31	60.8	812	1	US-08-429-744-1	Sequence 1, Appl1
297	31	60.8	362	2	US-09-338-063A-11	Sequence 69, Appl	370	31	60.8	812	1	US-08-451-932-1	Sequence 1, Appl1
298	31	60.8	363	2	US-09-263-626-3	Sequence 142, App	371	31	60.8	812	1	US-08-326-785-1	Sequence 1, Appl1
299	31	60.8	363	2	US-10-232-858-69	Sequence 41, Appl	372	31	60.8	812	1	US-09-192-012-3	Sequence 1, Appl1
300	31	60.8	363	2	US-08-706-945D-142	Sequence 41, Appl	373	31	60.8	812	2	US-09-335-325-1	Sequence 12, Appl
301	31	60.8	378	1	US-08-612-788-41	Sequence 41, Appl	374	31	60.8	812	2	US-08-991-761A-12	Sequence 1, Appl1
302	31	60.8	378	2	US-09-066-028-41	Sequence 41, Appl	375	31	60.8	812	2	US-09-335-614-1	Sequence 1, Appl1
303	31	60.8	378	2	US-09-335-325-41	Sequence 41, Appl	376	31	60.8	812	2	PCT-US95-05107-1	Sequence 4, Appl1
304	31	60.8	378	2	US-09-335-614-41	Sequence 41, Appl	377	31	60.8	812	2	US-10-117-604A-4	Sequence 4, Appl1
305	31	60.8	378	2	US-09-335-614-41	Sequence 41, Appl	378	31	60.8	812	2	US-09-270-767-44682	Sequence 44682, A
306	31	60.8	379	2	US-10-078-059-3	Sequence 15708, A	379	31	60.8	812	2	US-09-270-767-44682	Sequence 44682, A
307	31	60.8	380	2	US-09-248-796A-15708	Sequence 4, Appl1	380	31	60.8	812	2	US-09-270-767-44682	Sequence 44682, A
308	31	60.8	380	2	US-10-232-858-4	Sequence 106, App	381	31	60.8	812	2	US-09-270-767-44682	Sequence 44682, A
309	31	60.8	380	2	US-09-338-063A-4	Sequence 106, App	382	31	60.8	812	2	US-09-270-767-44682	Sequence 44682, A
310	31	60.8	391	2	US-10-332-858-106	Sequence 106, App	383	31	60.8	812	2	US-09-270-767-44682	Sequence 44682, A
311	31	60.8	391	2	US-09-338-063A-106	Sequence 79, Appl	384	31	60.8	812	2	US-09-270-767-44682	Sequence 44682, A
312	31	60.8	393	2	US-10-232-858-79	Sequence 79, Appl	385	31	60.8	812	2	US-09-270-767-44682	Sequence 44682, A
313	31	60.8	393	2	US-09-338-063A-79	Sequence 9, Appl1	386	31	60.8	812	2	US-09-270-767-44682	Sequence 44682, A
314	31	60.8	394	2	US-10-332-858-9	Sequence 9, Appl1	387	31	60.8	812	2	US-09-270-767-44682	Sequence 44682, A
315	31	60.8	394	2	US-09-338-063A-9	Sequence 2, Appl1	388	31	60.8	812	2	US-09-270-767-44682	Sequence 44682, A
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317	31	60.8	398	2	US-10-232-858-73	Sequence 73, Appl	390	31	60.8	812	2	US-09-270-767-44682	Sequence 44682, A
318	31	60.8	399	2	US-09-338-063A-73	Sequence 73, Appl	391	31	60.8	812	2	US-09-270-767-44682	Sequence 44682, A
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394	30	58.8	10	4	PCT-US95-02121-72	Sequence 72, Appl	467	30	58.8	303	2	US-09-270-767-3846	Sequence 38346, A
395	30	58.8	18	2	US-09-128-344A-71	Sequence 71, Appl	468	30	58.8	303	2	US-09-270-767-5353	Sequence 5353, A
396	30	58.8	18	5	US-10-255-011-71	Sequence 71, Appl	469	30	58.8	305	2	US-09-270-767-4343	Sequence 4343, A
397	30	58.8	54	2	US-09-516-352A-2	Sequence 2, Appl1	470	30	58.8	317	2	US-09-100-591-2	Sequence 2, Appl1
398	30	58.8	54	2	US-09-973-278-208	Sequence 208, App	471	30	58.8	317	2	US-09-616-614-2	Sequence 2, Appl1
399	30	58.8	55	2	US-09-227-357-169	Sequence 169, App	472	30	58.8	317	2	US-10-012-231A-322	Sequence 322, App
400	30	58.8	59	2	US-09-390-027-6	Sequence 6, Appl1	473	30	58.8	317	2	US-10-015-389A-322	Sequence 322, App
401	30	58.8	60	2	US-09-543-681A-7625	Sequence 6, Appl1	474	30	58.8	317	2	US-10-006-768A-322	Sequence 322, App
402	30	58.8	61	2	US-09-248-796A-22851	Sequence 22851, A	475	30	58.8	317	2	US-10-015-671A-322	Sequence 322, App
403	30	58.8	61	2	US-09-248-796A-22851	Sequence 22872, A	476	30	58.8	317	2	US-10-288-673-2	Sequence 2, Appl1
404	30	58.8	64	2	US-09-732-210-492	Sequence 492, App	477	30	58.8	317	2	US-10-015-393A-322	Sequence 322, App
405	30	58.8	64	2	US-09-471-276-1581	Sequence 1581, App	478	30	58.8	317	2	US-10-011-833A-322	Sequence 322, App
406	30	58.8	65	2	US-09-732-210-928	Sequence 928, App	479	30	58.8	317	2	US-10-006-041A-322	Sequence 322, App
407	30	58.8	65	1	US-08-454-357C-36	Sequence 36, Appl	480	30	58.8	317	2	US-10-012-064A-322	Sequence 322, App
408	30	58.8	68	1	US-08-340-426D-36	Sequence 36, Appl	481	30	58.8	323	2	US-09-538-092-821	Sequence 821, App
409	30	58.8	68	1	US-08-450-673C-36	Sequence 36, Appl	482	30	58.8	323	2	US-09-949-016-5913	Sequence 5913, App
410	30	58.8	68	1	US-10-153-334-8	Sequence 36, Appl1	483	30	58.8	344	2	US-09-134-000C-5935	Sequence 5935, App
411	30	58.8	68	4	PCT-US95-17111A-36	Sequence 36, Appl1	484	30	58.8	344	2	US-09-270-767-62069	Sequence 62069, A
412	30	58.8	76	2	US-09-513-989C-4483	Sequence 4483, App	485	30	58.8	346	2	US-09-328-352-7531	Sequence 7531, App
413	30	58.8	77	2	US-08-866-345-3	Sequence 3, Appl1	486	30	58.8	347	2	US-09-949-016-8127	Sequence 8127, App
414	30	58.8	77	2	US-09-627-775-3	Sequence 3, Appl1	487	30	58.8	349	2	US-09-543-681A-6769	Sequence 6769, App
415	30	58.8	77	2	US-09-248-796A-19878	Sequence 19878, A	488	30	58.8	352	2	US-09-583-110-4770	Sequence 4770, App
416	30	58.8	86	2	US-09-270-767-48908	Sequence 48908, A	489	30	58.8	352	2	US-09-270-767-43213	Sequence 43213, A
417	30	58.8	87	2	US-09-252-991A-25682	Sequence 25682, A	490	30	58.8	364	2	US-09-107-433-2898	Sequence 2898, App
418	30	58.8	91	2	US-09-134-001C-3402	Sequence 3402, App	491	30	58.8	369	2	US-09-270-767-46483	Sequence 46483, A
419	30	58.8	101	2	US-09-489-039A-7696	Sequence 7696, App	492	30	58.8	376	1	US-07-857-224B-88	Sequence 88, Appl
420	30	58.8	112	1	US-08-425-673-6	Sequence 6, Appl1	493	30	58.8	376	1	US-07-857-224B-89	Sequence 89, Appl
421	30	58.8	113	2	US-09-270-767-36008	Sequence 36008, A	494	30	58.8	379	2	US-09-854-122-39	Sequence 39, Appl
422	30	58.8	113	2	US-09-270-767-51225	Sequence 51225, A	495	30	58.8	381	2	US-09-714-767B-7	Sequence 7, Appl1
423	30	58.8	114	2	US-09-489-039A-13491	Sequence 13491, A	496	30	58.8	382	1	US-08-455-968E-5	Sequence 5, Appl1
424	30	58.8	114	2	US-09-543-681A-6635	Sequence 6635, App	497	30	58.8	382	1	US-08-823-516-139	Sequence 139, App
425	30	58.8	131	2	US-09-621-976-5175	Sequence 5175, App	498	30	58.8	382	2	US-09-134-001C-4463	Sequence 4463, App
426	30	58.8	131	2	US-09-621-976-697	Sequence 7697, App	499	30	58.8	382	2	US-09-940-244-139	Sequence 139, App
427	30	58.8	131	2	US-09-270-767-41226	Sequence 41226, A	500	30	58.8	382	2	US-09-381-212-139	Sequence 139, App
428	30	58.8	131	2	US-09-270-767-56442	Sequence 56442, A	501	30	58.8	382	2	US-09-713-601A-139	Sequence 139, App
429	30	58.8	158	2	US-09-270-767-42833	Sequence 42833, A	502	30	58.8	409	2	US-09-248-796A-14525	Sequence 14525, A
430	30	58.8	158	2	US-09-134-000C-4124	Sequence 4124, App	503	30	58.8	415	2	US-09-006-353A-6	Sequence 6, Appl1
431	30	58.8	164	2	US-09-252-991A-18734	Sequence 18734, A	504	30	58.8	415	2	US-09-573-986-6	Sequence 6, Appl1
432	30	58.8	169	2	US-09-540-236-2860	Sequence 2860, App	505	30	58.8	444	2	US-09-252-991A-16822	Sequence 16822, A
433	30	58.8	170	2	US-08-828-683A-14	Sequence 14, Appl	506	30	58.8	442	2	US-09-832-129-41	Sequence 41, Appl
434	30	58.8	170	2	US-09-523-323-57	Sequence 57, Appl	507	30	58.8	442	2	US-09-832-129-54	Sequence 54, Appl
435	30	58.8	172	2	US-09-100-391-7	Sequence 7, Appl1	508	30	58.8	440	1	US-08-061-062A-6	Sequence 6, Appl1
436	30	58.8	172	2	US-09-616-614-7	Sequence 7, Appl1	509	30	58.8	440	2	US-08-061-062A-8	Sequence 8, Appl1
437	30	58.8	172	2	US-10-288-273-7	Sequence 7, Appl1	510	30	58.8	440	2	US-08-536-150-6	Sequence 6, Appl1
438	30	58.8	178	2	US-09-100-391-6	Sequence 6, Appl1	511	30	58.8	440	2	US-08-536-150-8	Sequence 8, Appl1
439	30	58.8	178	2	US-09-616-614-6	Sequence 6, Appl1	512	30	58.8	444	2	US-10-104-047-2354	Sequence 2354, App
440	30	58.8	186	2	US-10-288-273-6	Sequence 6, Appl1	513	30	58.8	447	2	US-09-248-796A-14846	Sequence 14846, A
441	30	58.8	186	2	US-09-059-625-68	Sequence 68, Appl1	514	30	58.8	468	2	US-09-832-129-59	Sequence 59, Appl
442	30	58.8	189	2	US-09-270-767-58555	Sequence 58555, A	515	30	58.8	473	2	US-09-949-016-7944	Sequence 7944, App
443	30	58.8	196	2	US-09-148-545-174	Sequence 174, App	516	30	58.8	477	2	US-09-489-039A-9586	Sequence 9586, App
444	30	58.8	196	2	US-09-621-011-174	Sequence 174, App	517	30	58.8	492	2	US-09-270-767-60588	Sequence 60588, App
445	30	58.8	197	1	US-08-505-606-1	Sequence 1, Appl1	518	30	58.8	504	2	US-09-270-767-45920	Sequence 45920, A
446	30	58.8	197	2	US-09-000-166-1	Sequence 1, Appl1	519	30	58.8	526	2	US-10-360-101-21	Sequence 21, App
447	30	58.8	197	2	US-09-303-262-1	Sequence 1, Appl1	520	30	58.8	527	1	US-08-365-486A-26	Sequence 26, Appl
448	30	58.8	204	2	US-09-059-625-89	Sequence 89, Appl	521	30	58.8	527	2	US-09-126-109-10	Sequence 10, Appl
449	30	58.8	205	2	US-09-543-681A-5799	Sequence 5799, App	522	30	58.8	527	2	US-08-880-342-26	Sequence 26, Appl
450	30	58.8	207	2	US-09-489-039A-11516	Sequence 11516, A	523	30	58.8	527	2	US-09-949-016-6125	Sequence 6125, App
451	30	58.8	218	2	US-09-270-767-42904	Sequence 42904, A	524	30	58.8	528	2	US-09-356-806-8	Sequence 8, Appl1
452	30	58.8	243	2	US-09-059-625-75	Sequence 75, Appl	525	30	58.8	528	2	US-09-949-016-6999	Sequence 6999, App
453	30	58.8	243	2	US-09-059-625-82	Sequence 82, Appl	526	30	58.8	529	2	US-08-426-509A-15	Sequence 15, Appl
454	30	58.8	246	2	US-09-323-872A-36	Sequence 36, Appl	527	30	58.8	529	2	US-08-232-545-15	Sequence 15, Appl
455	30	58.8	246	2	US-09-072-433-38	Sequence 38, Appl	528	30	58.8	529	2	US-09-538-092-885	Sequence 885, App
456	30	58.8	247	2	US-09-270-767-43996	Sequence 43996, A	529	30	58.8	529	2	US-09-977-261-15	Sequence 15, Appl
457	30	58.8	256	2	US-09-583-110-4173	Sequence 4173, App	530	30	58.8	539	4	PCT-US95-05008-15	Sequence 15, Appl
458	30	58.8	256	2	US-09-949-016-9556	Sequence 9556, App	531	30	58.8	540	2	US-09-949-016-8465	Sequence 8465, App
459	30	58.8	262	2	US-09-107-433-3816	Sequence 3816, App	532	30	58.8	540	2	US-09-949-016-9052	Sequence 9052, App
460	30	58.8	263	2	US-09-253-991A-21194	Sequence 21194, A	533	30	58.8	549	1	US-08-325-071-61	Sequence 61, Appl
461	30	58.8	263	2	US-09-489-039A-12059	Sequence 12059, A	534	30	58.8	549	2	US-08-461-004A-61	Sequence 61, Appl
462	30	58.8	265	2	US-09-543-681A-5071	Sequence 5071, App	535	30	58.8	549	2	US-09-949-016-8391	Sequence 8391, App
463	30	58.8	296	2	US-09-270-767-36066	Sequence 36066, A	536	30	58.8	650	1	US-08-325-071-63	Sequence 63, Appl
464	30	58.8	296	2	US-09-270-767-51283	Sequence 51283, A	537	30	58.8	650	1	US-08-325-071-67	Sequence 67, Appl
465	30	58.8	301	2	US-09-148-545-232	Sequence 232, App	538	30	58.8	650	2	US-08-461-004A-63	Sequence 63, Appl

539	30	58.8	650	2	US-08-461-004A-67	Sequence 67, Appl	612	29	56.9	68	1	US-08-461-041-10	Sequence 10, Appl
540	30	58.8	657	2	US-09-248-796A-19232	Sequence 19232, A	613	29	56.9	68	1	US-08-461-041-13	Sequence 13, Appl
541	30	58.8	663	2	US-09-538-092-218	Sequence 218, App	614	29	56.9	69	2	US-09-270-767-35000	Sequence 35000, A
542	30	58.8	667	2	US-09-315-127-5	Sequence 5, Appl1	615	29	56.9	69	2	US-09-270-767-50217	Sequence 50217, A
543	30	58.8	667	2	US-09-315-127-6	Sequence 6, Appl1	616	29	56.9	69	2	US-09-270-767-50217	Sequence 50217, A
544	30	58.8	667	2	US-09-248-796A-19663	Sequence 19663, A	617	29	56.9	69	2	US-09-248-796A-22634	Sequence 22634, A
545	30	58.8	667	2	US-09-070-630-13	Sequence 13, Appl	618	29	56.9	71	2	US-09-489-039A-10932	Sequence 10932, A
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547	30	58.8	718	1	US-08-445-042-4	Sequence 4, Appl1	620	29	56.9	84	2	US-09-270-767-43718	Sequence 43718, A
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552	30	58.8	788	2	US-09-409-648-3	Sequence 3, Appl1	625	29	56.9	109	2	US-09-673-355A-283	Sequence 283, App
553	30	58.8	788	2	US-10-072-844-32	Sequence 32, Appl	626	29	56.9	116	2	US-09-902-540-10267	Sequence 10267, A
554	30	58.8	788	2	US-10-072-844-32	Sequence 32, Appl	627	29	56.9	116	2	US-10-104-047-3301	Sequence 3301, Ap
555	30	58.8	788	2	US-10-072-844-32	Sequence 32, Appl	628	29	56.9	116	2	US-09-134-000C-5017	Sequence 5017, Ap
556	30	58.8	788	2	US-10-072-844-32	Sequence 32, Appl	629	29	56.9	118	2	US-09-270-767-60607	Sequence 60607, A
557	30	58.8	788	2	US-09-054-272-8	Sequence 8, Appl1	630	29	56.9	124	2	US-09-893-737-316	Sequence 316, App
558	30	58.8	788	2	US-09-054-272-8	Sequence 8, Appl1	631	29	56.9	124	2	US-09-640-211A-880	Sequence 880, App
559	30	58.8	788	2	US-10-219-631A-32	Sequence 32, Appl	632	29	56.9	124	2	US-10-181-642-16	Sequence 16, Appl
560	30	58.8	788	2	US-09-949-016-5901	Sequence 5901, Ap	633	29	56.9	137	2	US-09-913-204-3	Sequence 3, Appl1
561	30	58.8	1004	2	US-08-916-352-2	Sequence 2, Appl1	634	29	56.9	137	2	US-09-913-204-7	Sequence 7, Appl1
562	30	58.8	1004	2	US-09-949-016-6496	Sequence 6496, Ap	635	29	56.9	137	2	US-09-913-204-13	Sequence 13, Appl
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698	29	56.9	314	2	US-09-970-989A-15	Sequence 15, Appl	771	29	56.9	650	1	US-08-325-071-59	Sequence 59, Appl
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711	29	56.9	368	2	US-10-012-231A-297	Sequence 297, App	784	29	56.9	801	2	US-09-913-301-7	Sequence 7, Appli
712	29	56.9	368	2	US-10-015-389A-297	Sequence 297, App	785	29	56.9	804	2	US-09-913-301-2	Sequence 2, Appli
713	29	56.9	368	2	US-10-006-768A-297	Sequence 297, App	786	29	56.9	806	2	US-09-187-330-3	Sequence 3, Appli
714	29	56.9	368	2	US-10-015-671A-297	Sequence 297, App	787	29	56.9	828	2	US-09-187-330-55	Sequence 55, Appl
715	29	56.9	368	2	US-10-015-393A-297	Sequence 297, App	788	29	56.9	855	1	US-08-344-536-2	Sequence 2, Appli
716	29	56.9	368	2	US-10-011-833A-297	Sequence 297, App	789	29	56.9	855	1	US-08-344-536-5	Sequence 5, Appli
717	29	56.9	368	2	US-10-006-041A-297	Sequence 297, App	790	29	56.9	855	2	US-08-920-562-2	Sequence 2, Appli
718	29	56.9	368	2	US-10-012-064A-297	Sequence 297, App	791	29	56.9	855	2	US-08-920-562-5	Sequence 5, Appli
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721	29	56.9	380	2	US-09-345-828-6	Sequence 6, Appli	794	29	56.9	1038	2	US-09-538-092-487	Sequence 487, App
722	29	56.9	381	2	US-09-266-965-100	Sequence 100, App	795	29	56.9	1125	2	US-09-900-920-60	Sequence 60, Appl
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724	29	56.9	386	2	US-09-252-991A-20053	Sequence 2012, Ap	797	29	56.9	1385	1	US-08-687-399-7	Sequence 7, Appli
725	29	56.9	411	2	US-09-605-703B-2012	Sequence 3885, Ap	798	29	56.9	1509	2	US-09-677-046A-2	Sequence 2, Appli
726	29	56.9	420	2	US-10-104-047-3885	Sequence 3797, A	799	29	56.9	5037	2	US-09-538-092-979	Sequence 4, Appli
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744	29	56.9	504	2	US-09-270-767-40273	Sequence 55489, A	817	28	54.9	17	2	US-09-128-344A-143	Sequence 143, App
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833	28	54.9	17	5	US-10-255-011-143	Sequence 143, App	906	28	54.9	18	5	US-10-255-011-128	Sequence 128, App
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847	28	54.9	18	2	US-09-128-344A-49	Sequence 49, Appli	920	28	54.9	21	1	US-08-243-728-77	Sequence 77, Appli
848	28	54.9	18	2	US-09-128-344A-51	Sequence 51, Appli	921	28	54.9	26	1	US-08-620-151-125	Sequence 125, App
849	28	54.9	18	2	US-09-128-344A-86	Sequence 86, Appli	922	28	54.9	27	1	US-08-620-151-124	Sequence 124, App
850	28	54.9	18	2	US-09-128-344A-88	Sequence 88, Appli	923	28	54.9	38	1	US-08-825-886-14	Sequence 14, Appli
851	28	54.9	18	2	US-09-128-344A-89	Sequence 89, Appli	924	28	54.9	38	1	US-08-825-886-14	Sequence 14, Appli
852	28	54.9	18	2	US-09-128-344A-100	Sequence 100, App	925	28	54.9	38	1	US-08-825-886-14	Sequence 14, Appli
853	28	54.9	18	2	US-09-128-344A-104	Sequence 104, App	926	28	54.9	38	2	US-09-732-210-986	Sequence 986, App
854	28	54.9	18	2	US-09-128-344A-106	Sequence 106, App	927	28	54.9	42	2	US-09-131-750-27	Sequence 27, Appli
855	28	54.9	18	2	US-09-128-344A-107	Sequence 107, App	928	28	54.9	42	2	US-09-156-580-12	Sequence 12, Appli
856	28	54.9	18	2	US-09-128-344A-108	Sequence 108, App	929	28	54.9	43	2	US-09-156-579C-14	Sequence 14, Appli
857	28	54.9	18	2	US-09-128-344A-114	Sequence 114, App	930	28	54.9	43	2	US-08-691-814B-14	Sequence 14, Appli
858	28	54.9	18	2	US-09-128-344A-115	Sequence 115, App	931	28	54.9	49	2	US-09-230-637-62	Sequence 62, Appli
859	28	54.9	18	2	US-09-128-344A-116	Sequence 116, App	932	28	54.9	50	2	US-09-270-767-41208	Sequence 41208, A
860	28	54.9	18	2	US-09-128-344A-121	Sequence 121, App	933	28	54.9	50	2	US-09-270-767-56424	Sequence 56424, A
861	28	54.9	18	2	US-09-128-344A-123	Sequence 123, App	934	28	54.9	52	2	US-09-755-665-42	Sequence 42, Appli
862	28	54.9	18	2	US-09-128-344A-124	Sequence 124, App	935	28	54.9	53	2	US-09-621-976-5209	Sequence 5209, App
863	28	54.9	18	2	US-09-128-344A-125	Sequence 125, App	936	28	54.9	56	2	US-09-205-258-1193	Sequence 1193, App
864	28	54.9	18	2	US-09-128-344A-127	Sequence 127, App	937	28	54.9	56	2	US-10-004-860-1193	Sequence 61, Appli
865	28	54.9	18	2	US-09-128-344A-128	Sequence 128, App	938	28	54.9	59	2	US-09-949-016-6797	Sequence 6797, App
866	28	54.9	18	2	US-09-128-344A-129	Sequence 129, App	939	28	54.9	60	2	US-09-949-016-6797	Sequence 6797, App
867	28	54.9	18	2	US-09-128-344A-135	Sequence 135, App	940	28	54.9	62	1	US-07-865-933-30	Sequence 30, Appli
868	28	54.9	18	2	US-09-128-344A-136	Sequence 136, App	941	28	54.9	62	1	US-07-865-933-30	Sequence 30, Appli
869	28	54.9	18	2	US-09-128-344A-137	Sequence 137, App	942	28	54.9	62	2	US-09-248-796A-28090	Sequence 28090, A
870	28	54.9	18	2	US-09-128-344A-142	Sequence 142, App	943	28	54.9	63	1	US-08-425-061-15	Sequence 15, Appli
871	28	54.9	18	2	US-09-128-344A-144	Sequence 144, App	944	28	54.9	63	1	US-08-825-886-15	Sequence 15, Appli
872	28	54.9	18	2	US-09-128-344A-145	Sequence 145, App	945	28	54.9	63	1	US-08-825-886-15	Sequence 15, Appli
873	28	54.9	18	2	US-09-128-344A-148	Sequence 148, App	946	28	54.9	67	2	US-08-989-880-15	Sequence 15, Appli
874	28	54.9	18	2	US-09-128-344A-195	Sequence 195, App	947	28	54.9	67	2	US-09-732-210-494	Sequence 25033, A
875	28	54.9	18	2	US-09-128-344A-199	Sequence 199, App	948	28	54.9	73	2	US-09-248-796A-23443	Sequence 23443, A
876	28	54.9	18	5	US-10-255-011-1	Sequence 1, Appli	949	28	54.9	74	2	US-09-248-796A-23323	Sequence 23523, A
877	28	54.9	18	5	US-10-255-011-2	Sequence 2, Appli	950	28	54.9	78	2	US-09-621-976-5351	Sequence 5351, App
878	28	54.9	18	5	US-10-255-011-3	Sequence 3, Appli	951	28	54.9	80	1	US-08-425-061-17	Sequence 17, Appli
879	28	54.9	18	5	US-10-255-011-4	Sequence 4, Appli	952	28	54.9	80	1	US-08-825-886-17	Sequence 17, Appli
880	28	54.9	18	5	US-10-255-011-5	Sequence 5, Appli	953	28	54.9	80	2	US-08-989-890-11	Sequence 11, Appli
881	28	54.9	18	5	US-10-255-011-11	Sequence 11, Appli	954	28	54.9	80	2	US-09-252-999A-12120	Sequence 31270, A
882	28	54.9	18	5	US-10-255-011-15	Sequence 15, Appli	955	28	54.9	82	2	US-09-543-681A-5001	Sequence 5001, App
883	28	54.9	18	5	US-10-255-011-17	Sequence 17, Appli	956	28	54.9	82	2	US-09-107-433-4932	Sequence 4932, App
884	28	54.9	18	5	US-10-255-011-19	Sequence 19, Appli	957	28	54.9	84	2	US-09-489-039A-7591	Sequence 7591, App
885	28	54.9	18	5	US-10-255-011-31	Sequence 31, Appli	958	28	54.9	84	2	US-09-489-039A-7591	Sequence 7591, App
886	28	54.9	18	5	US-10-255-011-33	Sequence 33, Appli	959	28	54.9	85	2	US-09-489-039A-7591	Sequence 7591, App
887	28	54.9	18	5	US-10-255-011-35	Sequence 35, Appli	960	28	54.9	86	1	US-09-270-767-61052	Sequence 61052, A
888	28	54.9	18	5	US-10-255-011-45	Sequence 45, Appli	961	28	54.9	86	2	US-09-103-016-6455	Sequence 27, Appli
889	28	54.9	18	5	US-10-255-011-49	Sequence 49, Appli	962	28	54.9	86	2	US-09-949-016-6455	Sequence 6455, App
890	28	54.9	18	5	US-10-255-011-51	Sequence 51, Appli	963	28	54.9	86	2	US-10-027-736A-12	Sequence 12, Appli
891	28	54.9	18	5	US-10-255-011-86	Sequence 86, Appli	964	28	54.9	86	2	US-10-027-736A-12	Sequence 12, Appli
892	28	54.9	18	5	US-10-255-011-88	Sequence 88, Appli	965	28	54.9	86	2	US-09-252-991A-30357	Sequence 30357, A
893	28	54.9	18	5	US-10-255-011-99	Sequence 99, Appli	966	28	54.9	89	2	US-09-732-210-1064	Sequence 1064, App
894	28	54.9	18	5	US-10-255-011-100	Sequence 100, App	967	28	54.9	94	2	US-09-949-016-8745	Sequence 8745, App
895	28	54.9	18	5	US-10-255-011-104	Sequence 104, App	968	28	54.9	94	2	US-09-949-016-8745	Sequence 8745, App
896	28	54.9	18	5	US-10-255-011-106	Sequence 106, App	969	28	54.9	99	1	US-08-319-052-4	Sequence 4, Appli
897	28	54.9	18	5	US-10-255-011-107	Sequence 107, App	970	28	54.9	99	2	US-08-466-366-10	Sequence 10, Appli
898	28	54.9	18	5	US-10-255-011-108	Sequence 108, App	971	28	54.9	99	2	US-08-442-108B-4	Sequence 7, Appli
899	28	54.9	18	5	US-10-255-011-114	Sequence 114, App	972	28	54.9	99	2	US-08-470-998-7	Sequence 15, Appli
900	28	54.9	18	5	US-10-255-011-115	Sequence 115, App	973	28	54.9	100	2	US-08-328-500-15	Sequence 3, Appli
901	28	54.9	18	5	US-10-255-011-116	Sequence 116, App	974	28	54.9	100	2	US-09-230-196-3	Sequence 4, Appli
902	28	54.9	18	5	US-10-255-011-121	Sequence 121, App	975	28	54.9	100	2	US-09-230-196-4	Sequence 4, Appli
903	28	54.9	18	5	US-10-255-011-124	Sequence 124, App	976	28	54.9	100	2	US-09-755-665-40	Sequence 40, Appli

977 28 54.9 100 2 US-09-513-999C-4314
978 28 54.9 104 2 US-09-732-210-1055
979 28 54.9 105 2 US-09-732-210-1054
980 28 54.9 107 2 US-09-755-665-10
981 28 54.9 108 2 US-09-270-767-59740
982 28 54.9 109 2 US-09-732-210-126
983 28 54.9 109 2 US-09-270-767-37875
984 28 54.9 109 2 US-09-270-767-53092
985 28 54.9 111 2 US-09-270-767-40660
986 28 54.9 111 2 US-09-270-767-55876
987 28 54.9 115 2 US-09-270-767-57881
988 28 54.9 117 2 US-09-270-767-46265
989 28 54.9 118 1 US-08-417-174-2
990 28 54.9 118 1 US-08-231-565A-2
991 28 54.9 118 1 US-09-007-961-2
992 28 54.9 118 1 US-09-267-439-2
993 28 54.9 118 2 US-09-073-138-2
994 28 54.9 118 2 US-09-949-016-6618
995 28 54.9 119 2 US-09-107-433-3758
996 28 54.9 121 2 US-09-621-976-5040
997 28 54.9 121 2 US-09-949-016-5742
998 28 54.9 122 2 US-09-270-767-35716
999 28 54.9 122 2 US-09-270-767-50933
1000 28 54.9 123 2 US-09-489-039A-11237

ALIGNMENTS

RESULT 1
US-08-159-339A-570
Sequence 570, Application US/08159339A
Patent No. 6037135
GENERAL INFORMATION:
APPLICANT: Kubo, Ralph T.
APPLICANT: Grey, Howard M.
APPLICANT: Sette, Alessandro
APPLICANT: Celis, Esben
TITLE OF INVENTION: HLA Binding peptides and Their
NUMBER OF SEQUENCES: 1254
CORRESPONDENCE ADDRESS:
ADDRESSEE: Townsend and Townsend and Crew LLP
STREET: Two Embarcadero Center, Eighth Floor
CITY: San Francisco
STATE: CA
COUNTRY: USA
ZIP: 94111-3834
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSeq for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/159,339A
FILING DATE: 29-NOV-1993
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/926,666
FILING DATE: 07-AUG-1992
APPLICATION NUMBER: US 08/027,746
FILING DATE: 05-MAR-1993
APPLICATION NUMBER: US 08/103,396
FILING DATE: 06-AUG-1993
ATTORNEY/AGENT INFORMATION:
NAME: Weber, Ellen Lauver
REGISTRATION NUMBER: 32,762
REFERENCE/DOCKET NUMBER: 018623-005030US
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 576-0200
TELEFAX: (415) 576-0300
TELEX:
INFORMATION FOR SEQ ID NO: 570:

Sequence 4314, Ap
Sequence 1055, Ap
Sequence 1054, Ap
Sequence 10, Appl
Sequence 59740, A
Sequence 126, App
Sequence 37875, A
Sequence 53092, A
Sequence 40660, A
Sequence 55876, A
Sequence 57881, A
Sequence 46265, A
Sequence 2, Appl
Sequence 2, Appl
Sequence 2, Appl
Sequence 2, Appl
Sequence 6618, Ap
Sequence 3758, Ap
Sequence 5040, Ap
Sequence 5742, Ap
Sequence 35716, A
Sequence 50933, A
Sequence 11237, A

SEQUENCE CHARACTERISTICS:
LENGTH: 9 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-08-159-339A-570

Query Match 100.0%; Score 51; DB 2; Length 9;
Best Local Similarity 100.0%; Pred. No. 4.6e+05;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 IILECVCK 9
Db 1 IILECVCK 9

RESULT 2
US-08-159-339A-573
Sequence 573, Application US/08159339A
Patent No. 6037135
GENERAL INFORMATION:
APPLICANT: Kubo, Ralph T.
APPLICANT: Grey, Howard M.
APPLICANT: Sette, Alessandro
APPLICANT: Celis, Esben
TITLE OF INVENTION: HLA Binding peptides and Their
NUMBER OF SEQUENCES: 1254
CORRESPONDENCE ADDRESS:
ADDRESSEE: Townsend and Townsend and Crew LLP
STREET: Two Embarcadero Center, Eighth Floor
CITY: San Francisco
STATE: CA
COUNTRY: USA
ZIP: 94111-3834
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSeq for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/159,339A
FILING DATE: 29-NOV-1993
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/926,666
FILING DATE: 07-AUG-1992
APPLICATION NUMBER: US 08/027,746
FILING DATE: 05-MAR-1993
APPLICATION NUMBER: US 08/103,396
FILING DATE: 06-AUG-1993
ATTORNEY/AGENT INFORMATION:
NAME: Weber, Ellen Lauver
REGISTRATION NUMBER: 32,762
REFERENCE/DOCKET NUMBER: 018623-005030US
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 576-0200
TELEFAX: (415) 576-0300
TELEX:
INFORMATION FOR SEQ ID NO: 573:

SEQUENCE CHARACTERISTICS:
LENGTH: 10 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-08-159-339A-573

Query Match 100.0%; Score 51; DB 2; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.014;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 IILECVYCK 9
|||
Db 2 IILECVYCK 10

RESULT 3

US-08-934-915-160
; Sequence 160, Application US/08934915
; Patent No. 5932412

GENERAL INFORMATION:

APPLICANT: DILLNER, JOAKIM
APPLICANT: DILLNER, LENA
APPLICANT: CHENG, HWEI-MING
TITLE OF INVENTION: SYNTHETIC PEPTIDES OF HUMAN
TITLE OF INVENTION: PAPILLOMAVIRUS 1, 5, 6, 8,
TITLE OF INVENTION: USEFUL IN IMMUNOSAY FOR
TITLE OF INVENTION: DIAGNOSTIC PURPOSES
NUMBER OF SEQUENCES: 193
CORRESPONDENCE ADDRESS:
ADDRESSEE: MASON & ASSOCIATES, P.A.
STREET: 17757 U.S. HWY. 19 NORTH, SUITE 500
CITY: CLEARWATER
STATE: FLORIDA
COUNTRY: U.S.A.

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
OPERATING SYSTEM: Windows 3.0
SOFTWARE: Microsoft Word 6.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/934,915
FILING DATE: 22-SEP-1997
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/949,836

FILING DATE:

ATTORNEY/AGENT INFORMATION:

NAME: LOUISE A. FOUTCH
REGISTRATION NUMBER: 37,133
REFERENCE/DOCKET NUMBER: 1946.6
TELECOMMUNICATION INFORMATION:
TELEPHONE: 813-538-3800
TELEFAX: 813-538-3820
TELEX:

INFORMATION FOR SEQ ID NO: 160:

SEQUENCE CHARACTERISTICS:

LENGTH: 20 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-08-934-915-160

Query Match 100.0%; Score 51; DB 1; Length 20;

Best Local Similarity 100.0%; Pred. No. 0.027;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 IILECVYCK 9
|||
Db 2 IILECVYCK 10

RESULT 4

US-09-980-523A-4
; Sequence 4, Application US/09980523A

GENERAL INFORMATION:

APPLICANT: CHOPPIN, JEANNINE
APPLICANT: BOURGAULT VILLADA, ISABELLE
APPLICANT: GUILLET, JEAN-GERARD
APPLICANT: CONNAN, FRANCINE
APPLICANT: FERRIES, ESTELLE
TITLE OF INVENTION: POLYPEPTIC PROTEIN FRAGMENTS OF THE E6 AND E7

;; TITLE OF INVENTION: PROTEINS OF HPV, THEIR PRODUCTION AND THEIR USE
;; FILE REFERENCE: WO/1 AO INS
;; CURRENT APPLICATION NUMBER: US/09/980,523A
;; CURRENT FILING DATE: 2002-04-29
;; PRIOR APPLICATION NUMBER: PCT/FR00/01513
;; PRIOR FILING DATE: 2000-05-31
;; PRIOR APPLICATION NUMBER: FR 99/07012
;; PRIOR FILING DATE: 1999-06-03
;; NUMBER OF SEQ ID NOS: 24
;; SOFTWARE: Patent In Ver. 2.1
;; SEQ ID NO 4
;; LENGTH: 30
;; TYPE: PRT
;; ORGANISM: Human Papillomavirus

US-09-980-523A-4

Query Match 100.0%; Score 51; DB 2; Length 30;
Best Local Similarity 100.0%; Pred. No. 0.04;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 IILECVYCK 9
|||
Db 19 IILECVYCK 27

RESULT 5

US-09-701-080C-18
; Sequence 18, Application US/09701080C

Patent No. 6664054

GENERAL INFORMATION:

APPLICANT: INSTITUTE OF MOLECULAR AND CELL BIOLOGY
TITLE OF INVENTION: POLYPEPTIDES FROM CREB BINDING PROTEIN AND RELATED PROTEIN P300 F
FILE REFERENCE: N73477C GCM
CURRENT APPLICATION NUMBER: US/09/701,080C
CURRENT FILING DATE: 2001-02-27
PRIOR APPLICATION NUMBER: GB 9811303.8
PRIOR FILING DATE: 1998-05-26
PRIOR APPLICATION NUMBER: GB 9900157.0
PRIOR FILING DATE: 1999-01-05
NUMBER OF SEQ ID NOS: 36
SOFTWARE: Patent In Ver. 2.1
SEQ ID NO 18
LENGTH: 151
TYPE: PRT
ORGANISM: Human papillomavirus
US-09-701-080C-18

Query Match 100.0%; Score 51; DB 2; Length 151;

Best Local Similarity 100.0%; Pred. No. 0.19;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 IILECVYCK 9
|||
Db 26 IILECVYCK 34

RESULT 6

US-09-980-523A-2
; Sequence 2, Application US/09980523A

Patent No. 6783763

GENERAL INFORMATION:

APPLICANT: CHOPPIN, JEANNINE
APPLICANT: BOURGAULT VILLADA, ISABELLE
APPLICANT: GUILLET, JEAN-GERARD
APPLICANT: CONNAN, FRANCINE
APPLICANT: FERRIES, ESTELLE
TITLE OF INVENTION: POLYPEPTIC PROTEIN FRAGMENTS OF THE E6 AND E7
TITLE OF INVENTION: PROTEINS OF HPV, THEIR PRODUCTION AND THEIR USE
FILE REFERENCE: WO/1 AO INS
CURRENT APPLICATION NUMBER: US/09/980,523A

;; CURRENT FILING DATE: 2002-04-29
;; PRIOR APPLICATION NUMBER: PCT/FR00/01513
;; PRIOR FILING DATE: 2000-05-31
;; PRIOR APPLICATION NUMBER: FR 99/07012
;; PRIOR FILING DATE: 1999-06-03
;; NUMBER OF SEQ ID NOS: 24
;; SOFTWARE: Patentl Ver. 2.1
;; SEQ ID NO: 2
;; LENGTH: 158
;; TYPE: PRT
;; ORGANISM: Human Papillomavirus
US-09-980-523A-2

Query Match 100.0%; Score 51; DB 2; Length 158;
Best Local Similarity 100.0%; Pred. No. 0.2;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 IILECVYCK 9
Db 33 IILECVYCK 41

RESULT 7
US-08-316-239B-3
; Sequence 3, Application US/08316239B
; Patent No. 5679509
; GENERAL INFORMATION:
; APPLICANT: Wheeler, Cosette M.
; APPLICANT: Parmenter, Cheryl A.
; TITLE OF INVENTION: Methods and a Diagnostic Aid for
; TITLE OF INVENTION: Distinguishing a Subset of HPV that is Associated with an
; TITLE OF INVENTION: Increased Risk of Developing Cervical Dysplasia and
; TITLE OF INVENTION: Cervical Cancer
; NUMBER OF SEQUENCES: 4
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Jagtiani & Associates
; STREET: 6126 Rocky Way Court
; CITY: Centreville
; STATE: VA
; COUNTRY: USA
; ZIP: 20120-3400
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentl Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/316,239B
; FILING DATE: 30-SEP-1994
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Jagtiani, Ajay A.
; REGISTRATION NUMBER: 35,205
; REFERENCE/DOCKET NUMBER: UNME-0001
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (703) 817-9453
; TELEFAX: (703) 803-9387
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 162 amino acids
; TYPE: amino acid
; STRANDEDNESS: not relevant
; TOPOLOGY: not relevant
; MOLECULE TYPE: protein
; HYPOTHEICAL: NO
US-08-316-239B-3

Query Match 100.0%; Score 51; DB 1; Length 162;
Best Local Similarity 100.0%; Pred. No. 0.2;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 IILECVYCK 9
Db 33 IILECVYCK 41

Db 33 IILECVYCK 41

RESULT 8
US-08-316-239B-4
; Sequence 4, Application US/08316239B
; Patent No. 5679509
; GENERAL INFORMATION:
; APPLICANT: Wheeler, Cosette M.
; APPLICANT: Parmenter, Cheryl A.
; TITLE OF INVENTION: Methods and a Diagnostic Aid for
; TITLE OF INVENTION: Distinguishing a Subset of HPV that is Associated with an
; TITLE OF INVENTION: Increased Risk of Developing Cervical Dysplasia and
; TITLE OF INVENTION: Cervical Cancer
; NUMBER OF SEQUENCES: 4
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Jagtiani & Associates
; STREET: 6126 Rocky Way Court
; CITY: Centreville
; STATE: VA
; COUNTRY: USA
; ZIP: 20120-3400
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentl Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/316,239B
; FILING DATE: 30-SEP-1994
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Jagtiani, Ajay A.
; REGISTRATION NUMBER: 35,205
; REFERENCE/DOCKET NUMBER: UNME-0001
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (703) 817-9453
; TELEFAX: (703) 803-9387
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 162 amino acids
; TYPE: amino acid
; STRANDEDNESS: not relevant
; TOPOLOGY: not relevant
; MOLECULE TYPE: protein
; HYPOTHEICAL: NO
US-08-316-239B-4

Query Match 100.0%; Score 51; DB 1; Length 162;
Best Local Similarity 100.0%; Pred. No. 0.2;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 IILECVYCK 9
Db 33 IILECVYCK 41

RESULT 9
US-08-860-165-14
; Sequence 14, Application US/08860165A
; Patent No. 6004557
; GENERAL INFORMATION:
; APPLICANT: EDWARDS, Stirling John
; APPLICANT: COX, John Cooper
; APPLICANT: WEBB, Elizabeth Ann
; APPLICANT: FRAZER, Ian
; TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
; FILE REFERENCE: 17227/130
; CURRENT APPLICATION NUMBER: US/08/860,165A
; CURRENT FILING DATE: 1997-09-22
; EARLIER APPLICATION NUMBER: PCT/AU95/00868
; EARLIER FILING DATE: 1995-12-20
; EARLIER APPLICATION NUMBER: AU PNO157


```
/ EARLIER FILING DATE: 1994-12-20
/ NUMBER OF SEQ ID NOS: 15
/ SOFTWARE: Patentin Ver. 2.0
/ SEQ ID NO 14
/ LENGTH: 172
/ TYPE: PRT
/ ORGANISM: Artificial Sequence
/ FEATURE:
/ OTHER INFORMATION: Description of Artificial Sequence: Gene Fusion
US-08-860-165-14

Query Match          100.0%; Score 51; DB 2; Length 172;
Best Local Similarity 100.0%; Pred. No. 0.21;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 IILECVYCK 9
Db 102 IILECVYCK 110

RESULT 10
US-09-359-382-14
/ Sequence 14, Application US/09359382
/ Patent No. 6306397
/ GENERAL INFORMATION:
/ APPLICANT: EDWARDS, Stirling John
/ APPLICANT: COX, John Cooper
/ APPLICANT: WEBB, Elizabeth Ann
/ APPLICANT: FRAZER, Ian
/ TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
/ FILE REFERENCE: 017227/0148
/ CURRENT APPLICATION NUMBER: US/09/359,382
/ EARLIER FILING DATE: 1999-07-23
/ EARLIER APPLICATION NUMBER: US 08/860,165
/ EARLIER FILING DATE: 1997-09-22
/ EARLIER APPLICATION NUMBER: PCT/AU95/00868
/ EARLIER FILING DATE: 1995-12-20
/ EARLIER APPLICATION NUMBER: AU PM0157/94
/ EARLIER FILING DATE: 1994-12-20
/ NUMBER OF SEQ ID NOS: 27
/ SOFTWARE: Patentin Ver. 2.0
/ SEQ ID NO 14
/ LENGTH: 172
/ TYPE: PRT
/ ORGANISM: Human papillomavirus type 16
US-09-359-382-14

Query Match          100.0%; Score 51; DB 2; Length 172;
Best Local Similarity 100.0%; Pred. No. 0.21;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 IILECVYCK 9
Db 102 IILECVYCK 110

RESULT 11
US-08-117-083-10
/ Sequence 10, Application US/08117083
/ Patent No. 5719054
/ GENERAL INFORMATION:
/ APPLICANT: Bourasnell, Michael E.
/ APPLICANT: Inglis, Stephen C.
/ APPLICANT: Munro, Alan J.
/ TITLE OF INVENTION: Recombinant Virus Vectors Encoding Human
/ TITLE OF INVENTION: Papilloma Virus Proteins
/ NUMBER OF SEQUENCES: 70
/ CORRESPONDENCE ADDRESS:
/ ADDRESSEE: Walter H. Dreyer
/ STREET: 4 Embarcadero Center, Suite 3400
/ CITY: San Francisco
/ STATE: CA
/ COUNTRY: USA
```

```
ZIP: 94111
/ COMPUTER READABLE FORM:
/ MEDIUM TYPE: floppy disk
/ COMPUTER: IBM PC compatible
/ OPERATING SYSTEM: PC-DOS/MS-DOS
/ SOFTWARE: Patentin Release #1.0, Version #1.25
/ CURRENT APPLICATION DATA:
/ APPLICATION NUMBER: US/08/117,083
/ FILING DATE: 10-SEP-1993
/ CLASSIFICATION: 435
/ ATTORNEY/AGENT INFORMATION:
/ NAME: Dreyer, Walter H.
/ REGISTRATION NUMBER: 24,190
/ REFERENCE/DOCKET NUMBER: A-58783
/ TELECOMMUNICATION INFORMATION:
/ TELEPHONE: 415-781-1989
/ TELEFAX: 415-398-3249
/ TELEX: 910 277299
/ INFORMATION FOR SEQ ID NO: 10:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 182 amino acids
/ TYPE: amino acid
/ STRANDEDNESS: single
/ TOPOLOGY: linear
/ MOLECULE TYPE: protein
/ FEATURE:
/ NAME/KEY: Protein
/ LOCATION: 1..182
/ OTHER INFORMATION:
/ OTHER INFORMATION: the open reading frame."
US-08-117-083-10

Query Match          100.0%; Score 51; DB 1; Length 182;
Best Local Similarity 100.0%; Pred. No. 0.23;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 IILECVYCK 9
Db 34 IILECVYCK 42

RESULT 12
US-09-462-993-1
/ Sequence 1, Application US/09462993
/ Patent No. 6884786
/ GENERAL INFORMATION:
/ APPLICANT: KIENY, Marie-Paule
/ APPLICANT: BALLOU, Jean-Marc
/ APPLICANT: BIZOUANE, Nadine
/ TITLE OF INVENTION: ANTITUMORAL COMPOSITION BASED ON IMMUNOGENIC
/ TITLE OF INVENTION: POLYPEPTIDE WITH MODIFIED CELL LOCATION
/ FILE REFERENCE: 017753-122
/ CURRENT APPLICATION NUMBER: US/09/462,993
/ EARLIER FILING DATE: 2000-04-17
/ PRIOR APPLICATION NUMBER: PCT/FR98/01576
/ PRIOR FILING DATE: 1998-07-17
/ PRIOR APPLICATION NUMBER: FR 97/09152
/ PRIOR FILING DATE: 1997-07-18
/ NUMBER OF SEQ ID NOS: 23
/ SOFTWARE: Patentin Ver. 2.2
/ SEQ ID NO 1
/ LENGTH: 243
/ TYPE: PRT
/ ORGANISM: Artificial Sequence
/ FEATURE:
/ OTHER INFORMATION: Description of Artificial Sequence: Derived from
/ OTHER INFORMATION: human papillomavirus, strain HPV-16, E6 protein
/ OTHER INFORMATION: fused F protein signals, clone E6*TMF.
US-09-462-993-1

Query Match          100.0%; Score 51; DB 2; Length 243;
Best Local Similarity 100.0%; Pred. No. 0.3;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

QY 1 IILECYCK 9
| | | | |
Db 61 IILECYCK 69

RESULT 13

US-08-860-165-10
; Sequence 10, Application US/08860165A
; Patent No. 6004557
; GENERAL INFORMATION:
; APPLICANT: EDWARDS, Scitling John
; APPLICANT: COX, John Cooper
; APPLICANT: WEBB, Elizabeth Ann
; APPLICANT: FRAZER, Ian
; TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
; FILE REFERENCE: 17227/130
; CURRENT APPLICATION NUMBER: US/08/860,165A
; PRIOR FILING DATE: 1997-09-22
; EARLIER APPLICATION NUMBER: PCT/AU95/00868
; EARLIER FILING DATE: 1995-12-20
; EARLIER APPLICATION NUMBER: AU PNO157
; EARLIER FILING DATE: 1994-12-20
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 10
; LENGTH: 266
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Gene Fusion
US-08-860-165-10

Query Match 100.0%; Score 51; DB 2; Length 266;
Best Local Similarity 100.0%; Pred. No. 0.33;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 IILECYCK 9
| | | | |
Db 33 IILECYCK 41

RESULT 14

US-09-359-382-10
; Sequence 10, Application US/09359382
; Patent No. 6306397
; GENERAL INFORMATION:
; APPLICANT: EDWARDS, Scitling John
; APPLICANT: COX, John Cooper
; APPLICANT: WEBB, Elizabeth Ann
; APPLICANT: FRAZER, Ian
; TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
; FILE REFERENCE: 017227/0148
; CURRENT APPLICATION NUMBER: US/09/359,382
; PRIOR FILING DATE: 1999-07-23
; EARLIER APPLICATION NUMBER: US 08/860,165
; EARLIER FILING DATE: 1997-09-22
; EARLIER APPLICATION NUMBER: PCT/AU95/00868
; EARLIER FILING DATE: 1995-12-20
; EARLIER APPLICATION NUMBER: AU PNO157/94
; EARLIER FILING DATE: 1994-12-20
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 10
; LENGTH: 266
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-09-359-382-10

Query Match 100.0%; Score 51; DB 2; Length 266;
Best Local Similarity 100.0%; Pred. No. 0.33;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 IILECYCK 9
| | | | |
Db 33 IILECYCK 41

RESULT 15

US-09-367-309A-1
; Sequence 1, Application US/09367309A
; Patent No. 6428607
; GENERAL INFORMATION:
; APPLICANT: MACFARLAN, RODERICK I.
; APPLICANT: MALLIAROS, JIM
; TITLE OF INVENTION: CHLATING IMMUNOSTIMULATING COMPLEXES
; FILE REFERENCE: 017227/0149
; CURRENT APPLICATION NUMBER: US/09/367,309A
; PRIOR FILING DATE: 1999-08-11
; PRIOR APPLICATION NUMBER: PCT/AU98/00080
; PRIOR FILING DATE: 1998-02-13
; PRIOR APPLICATION NUMBER: AU PO 5178
; PRIOR FILING DATE: 1997-02-19
; NUMBER OF SEQ ID NOS: 6
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
; LENGTH: 266
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-09-367-309A-1

Query Match 100.0%; Score 51; DB 2; Length 266;
Best Local Similarity 100.0%; Pred. No. 0.33;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 IILECYCK 9
| | | | |
Db 33 IILECYCK 41

RESULT 16

US-09-485-885-4
; Sequence 4, Application US/09485885
; Patent No. 6342224
; GENERAL INFORMATION:
; APPLICANT: BRUCK, Claudine
; APPLICANT: Cabezon Silva, Teresa
; APPLICANT: Delisse, Anne-Marie Eva Bernande
; APPLICANT: Gerard, Catherine Marie Gislaiane
; APPLICANT: Lombardo-Bencheikh, Angela
; TITLE OF INVENTION: Vaccine
; FILE REFERENCE: B45107
; CURRENT APPLICATION NUMBER: US/09/485,885
; PRIOR FILING DATE: 2000-02-18
; PRIOR APPLICATION NUMBER: PCT/EP98/05285
; PRIOR FILING DATE: 1998-08-17
; PRIOR APPLICATION NUMBER: GB 9717953.5
; PRIOR FILING DATE: 1997-08-22
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FastSeq for windows Version 3.0
; SEQ ID NO 4
; LENGTH: 273
; TYPE: PRT
; ORGANISM: Homo sapien
US-09-485-885-4

Query Match 100.0%; Score 51; DB 2; Length 273;
Best Local Similarity 100.0%; Pred. No. 0.33;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 IILECYCK 9
| | | | |
Db 139 IILECYCK 147

RESULT 17

TELEX:
; INFORMATION FOR SEQ ID NO: 73:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 10 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-08-159-339A-73

Query Match 72.5%; Score 37; DB 2; Length 10;
Best Local Similarity 100.0%; Pred. No. 3.1;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 IILECVY 7
| | | | |
Db 4 IILECVY 10

RESULT 21
US-09-248-796A-19088
; Sequence 19088, Application US/09248796A
; Patent No. 6747137
; GENERAL INFORMATION:
; APPLICANT: Kelch Weinstock et al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDA ALBICAN
; FILE REFERENCE: 107196.112
; CURRENT APPLICATION NUMBER: US/09/248, 796A
; CURRENT FILING DATE: 1999-02-12
; PRIOR APPLICATION NUMBER: US 60/074,725
; PRIOR FILING DATE: 1998-02-13
; PRIOR APPLICATION NUMBER: US 60/096,409
; PRIOR FILING DATE: 1998-08-13
; NUMBER OF SEQ ID NOS: 28208
; SEQ ID NO 19088
; LENGTH: 966
; TYPE: PRT
; ORGANISM: Candida albicans
US-09-248-796A-19088

Query Match 72.5%; Score 37; DB 2; Length 986;
Best Local Similarity 85.7%; Pred. No. 2.5e+02;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 2 IILECVYC 8
| | | | |
Db 59 IILSCVYC 65

RESULT 22
US-08-159-339A-1176
; Sequence 1176, Application US/08159339A
; Patent No. 6037135
; GENERAL INFORMATION:
; APPLICANT: Kubo, Ralph T.
; APPLICANT: Grey, Howard M.
; APPLICANT: Sette, Alessandro
; APPLICANT: Celis, Esben
; TITLE OF INVENTION: HLA Binding peptides and Their
; NUMBER OF SEQUENCES: 1254
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Townsend and Townsend and Crew LLP
; STREET: Two Embarcadero Center, Eighth Floor
; CITY: San Francisco
; STATE: CA
; COUNTRY: USA
; ZIP: 94111-3834
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS

SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/159,339A
; FILING DATE: 29-NOV-1993
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/926,666
; FILING DATE: 07-AUG-1992
; APPLICATION NUMBER: US 08/027,746
; FILING DATE: 05-MAR-1993
; APPLICATION NUMBER: US 08/103,396
; FILING DATE: 06-AUG-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Weber, Ellen Lauver
; REGISTRATION NUMBER: 32,762
; REFERENCE/DOCKET NUMBER: 018623-005030US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (415) 576-0200
; TELEFAX: (415) 576-0300
; TELEX:
; INFORMATION FOR SEQ ID NO: 1176:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 15 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-08-159-339A-1176

Query Match 70.6%; Score 36; DB 2; Length 15;
Best Local Similarity 66.7%; Pred. No. 6.7;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

OY 1 IILECVYCK 9
| | | | |
Db 7 IELTCVYCK 15

RESULT 23
US-08-466-285-2
; Sequence 2, Application US/08466285
; Patent No. 5753233
; GENERAL INFORMATION:
; APPLICANT: Bleul, Conrad
; APPLICANT: Giesmann, Lutz
; APPLICANT: Muller, Martin
; TITLE OF INVENTION: Seroreactive Epitopes On Proteins Of
; NUMBER OF SEQUENCES: 7
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Finnegan, Henderson, Farabow, Garrett &
; STREET: 1300 I Street, N.W., Suite 700
; CITY: Washington
; STATE: D.C.
; COUNTRY: USA
; ZIP: 20005-3315
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/466,285
; FILING DATE: 06-JUN-1995
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/164,768
; FILING DATE: 10-DEC-1993
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/947,992
; FILING DATE: 21-SEP-1992

CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/596,953
FILING DATE: 08-MAY-1991
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: P 40 15 044.5
FILING DATE: 10-MAY-1990
CLASSIFICATION: 424
ATTORNEY/AGENT INFORMATION:
NAME: Manepelzer, David A.
REGISTRATION NUMBER: 37,540
REFERENCE/DOCKET NUMBER: 05552.1075-03000
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202)408-4400
TELEFAX: (202)408-4400
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 32 amino acids
TYPE: amino acid
STRANDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-08-466-285-2

Query Match 70.6%; Score 36; DB 1; Length 32;
Best Local Similarity 66.7%; Pred. No. 14;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 IILECVYCK 9
| : |||||
DB 23 IETCVYCK 31

RESULT 24
US-08-164-768-2
Sequence 2, Application US/08164768
Patent No. 6322794
GENERAL INFORMATION:
APPLICANT: BLEUL, Conrad
APPLICANT: GISSMANN, Lutz
APPLICANT: MULLER, Martin
TITLE OF INVENTION: SEROREACTIVE EPITOPES ON PROTEINS OF
TITLE OF INVENTION: HUMAN PAPILLOMA VIRUS (HPV) 18
NUMBER OF SEQUENCES: 7
CORRESPONDENCE ADDRESS:
ADDRESSEE: FINNEGAN, HENDERSON, FARABOW, GARRETT &
ADDRESSEE: DUNNER, L.L.P.
STREET: 1300 I Street, N.W.
CITY: Washington
STATE: DC
COUNTRY: USA
ZIP: 20005
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Releasee #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/164,768
FILING DATE: 10-DEC-1993
CLASSIFICATION: 424
ATTORNEY/AGENT INFORMATION:
NAME: Forman, David S.
REGISTRATION NUMBER: 33,694
REFERENCE/DOCKET NUMBER: 05552.1075-02000
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 408-4400
TELEFAX: (202) 408-4400
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 32 amino acids
TYPE: amino acid

STRANDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-08-164-768-2

Query Match 70.6%; Score 36; DB 2; Length 32;
Best Local Similarity 66.7%; Pred. No. 14;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 IILECVYCK 9
| : |||||
DB 23 IETCVYCK 31

RESULT 25
US-08-247-904B-10
Sequence 10, Application US/08247904B
Patent No. 5981599
GENERAL INFORMATION:
APPLICANT: Rolfe, Mark
APPLICANT: Eckstein, Jens W.
APPLICANT: Draetta, Giulio
TITLE OF INVENTION: Human Ubiquitin Conjugating Enzyme
NUMBER OF SEQUENCES: 17
CORRESPONDENCE ADDRESS:
ADDRESSEE: Foley, Hoag & Eliot
STREET: One Post Office Square
CITY: Boston
STATE: MA
COUNTRY: USA
ZIP: 02109
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: ASCII(text)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/247,904B
FILING DATE: 23-MAY-1994
CLASSIFICATION: 530
ATTORNEY/AGENT INFORMATION:
NAME: Vincent, Matthew P.
REGISTRATION NUMBER: 36,709
REFERENCE/DOCKET NUMBER: MY-029.01
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 832-1000
TELEFAX: (617) 832-7000
INFORMATION FOR SEQ ID NO: 10:
SEQUENCE CHARACTERISTICS:
LENGTH: 158 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-247-904B-10

Query Match 70.6%; Score 36; DB 1; Length 158;
Best Local Similarity 66.7%; Pred. No. 65;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 IILECVYCK 9
| : |||||
DB 28 IETCVYCK 36

RESULT 26
US-08-767-942A-19
Sequence 19, Application US/08767942A
Patent No. 6068982
GENERAL INFORMATION:
APPLICANT: Rolfe, Mark
APPLICANT: Chiu, M. Isabel
APPLICANT: Berlin, Vivian
APPLICANT: Damagnez, Veronique

```

: APPLICANT: Draetta, Giulio
: APPLICANT: Guillaume, Cottarel
: TITLE OF INVENTION: UNIQUTIN CONJUGATING ENZYMES
: NUMBER OF SEQUENCES: 45
: CORRESPONDENCE ADDRESS:
: ADDRESSEE: FOLEY, HOAG & ELIOT LLP
: STREET: One Post Office Square
: CITY: Boston
: STATE: MA
: COUNTRY: USA
: ZIP: 02109-2170
: COMPUTER READABLE FORM:
: MEDIUM TYPE: Floppy disk
: COMPUTER: IBM PC compatible
: OPERATING SYSTEM: PC-DOS/MS-DOS
: SOFTWARE: Patentin Release #1.0, Version #1.30
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: US/08/767,942A
: FILING DATE: 17-DEC-1996
: ATTORNEY/AGENT INFORMATION:
: NAME: Vincent, Matthew P.
: REGISTRATION NUMBER: 36,709
: REFERENCE/DOCKET NUMBER: MIV-029,04
: TELECOMMUNICATION INFORMATION:
: TELEPHONE: 617-832-1000
: TELEFAX: 617-832-7000
: INFORMATION FOR SEQ ID NO: 19:
: SEQUENCE CHARACTERISTICS:
: LENGTH: 158 amino acids
: TYPE: amino acid
: TOPOLOGY: linear
: MOLECULE TYPE: protein
: US-08-767-942A-19

Query Match      70.6%; Score 36; DB 2; Length 158;
Best Local Similarity 66.7%; Pred. No. 65;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY      1 IILECYCK 9
Db      28 IETCYCK 36

RESULT 27
US-08-117-083-14
: Sequence 14, Application US/08117083
: Patent No. 5719054
: GENERAL INFORMATION:
: APPLICANT: Bourneil, Michael B.
: APPLICANT: Inglis, Stephen C.
: APPLICANT: Munro, Alan J.
: TITLE OF INVENTION: Recombinant Virus Vectors Encoding Human
: NUMBER OF SEQUENCES: 70
: CORRESPONDENCE ADDRESS:
: ADDRESSEE: Walter H. Dregger
: STREET: 4 Embarcadero Center, Suite 3400
: CITY: San Francisco
: STATE: CA
: COUNTRY: USA
: ZIP: 94111
: COMPUTER READABLE FORM:
: MEDIUM TYPE: Floppy disk
: COMPUTER: IBM PC compatible
: OPERATING SYSTEM: PC-DOS/MS-DOS
: SOFTWARE: Patentin Release #1.0, Version #1.25
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: US/08/117,083
: FILING DATE: 10-SEP-1993
: CLASSIFICATION: 435
: ATTORNEY/AGENT INFORMATION:
: NAME: Dregger, Walter H.
: REGISTRATION NUMBER: 24,190

```

```

: REFERENCE/DOCKET NUMBER: A-58783
: TELECOMMUNICATION INFORMATION:
: TELEPHONE: 415-781-1989
: TELEFAX: 415-398-3249
: TELEX: 910 277299
: INFORMATION FOR SEQ ID NO: 14:
: SEQUENCE CHARACTERISTICS:
: LENGTH: 271 amino acids
: TYPE: amino acid
: STRANDEDNESS: single
: TOPOLOGY: linear
: MOLECULE TYPE: protein
: FEATURE:
: NAME/KEY: Protein
: LOCATION: 1..271
: OTHER INFORMATION: /note="Xaa refers to stop codon in
: OTHER INFORMATION: the open reading frame."
: US-08-117-083-14

Query Match      70.6%; Score 36; DB 1; Length 271;
Best Local Similarity 66.7%; Pred. No. 1,1e+02;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY      1 IILECYCK 9
Db      29 IETCYCK 37

RESULT 28
US-09-485-885-21
: Sequence 21, Application US/09485885
: Patent No. 6342224
: GENERAL INFORMATION:
: APPLICANT: Bruck, Claudine
: APPLICANT: Cabazon Silva, Teresa
: APPLICANT: Delisse, Anne-Marie Eva Fernandez
: APPLICANT: Gerard, Catherine Marie Christaline
: APPLICANT: Lombardo-Bencheikh, Angela
: TITLE OF INVENTION: Vaccine
: FILE REFERENCE: B45107
: CURRENT APPLICATION NUMBER: US/09/485,885
: CURRENT FILING DATE: 2000-02-18
: PRIOR APPLICATION NUMBER: PCT/EP98/05285
: PRIOR FILING DATE: 1998-08-17
: PRIOR APPLICATION NUMBER: GB 9717953.5
: PRIOR FILING DATE: 1997-08-22
: NUMBER OF SEQ ID NOS: 23
: SOFTWARE: FaastSeq for Windows Version 3.0
: SEQ ID NO 21
: LENGTH: 278
: TYPE: PRP
: ORGANISM: Homo sapien
: US-09-485-885-21

Query Match      70.6%; Score 36; DB 2; Length 278;
Best Local Similarity 66.7%; Pred. No. 1,1e+02;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY      1 IILECYCK 9
Db      139 IETCYCK 147

RESULT 29
US-09-485-885-23
: Sequence 23, Application US/09485885
: Patent No. 6342224
: GENERAL INFORMATION:
: APPLICANT: Bruck, Claudine
: APPLICANT: Cabazon Silva, Teresa
: APPLICANT: Delisse, Anne-Marie Eva Fernandez
: APPLICANT: Gerard, Catherine Marie Christaline
: APPLICANT: Lombardo-Bencheikh, Angela

```

```

; TITLE OF INVENTION: Vaccine
; FILE REFERENCE: B45107
; CURRENT APPLICATION NUMBER: US/09/485,885
; CURRENT FILING DATE: 2000-02-18
; PRIOR APPLICATION NUMBER: PCT/EP98/05285
; PRIOR FILING DATE: 1998-08-17
; PRIOR APPLICATION NUMBER: GB 9717953.5
; PRIOR FILING DATE: 1997-08-22
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 23
; LENGTH: 383
; TYPE: PRT
; ORGANISM: Homo sapien
;
US-09-485-885-23

Query Match      70.6%; Score 36; DB 2; Length 383;
Best Local Similarity 66.7%; Pred. No. 1.5e+02;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Qy      1 IILECVYC 9
      | | | | |
Db      139 IELTCVYC 147

RESULT 30
US-09-270-767-39036
; Sequence 39036, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
; APPLICANT: Homburger et al.
; TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
; FILE REFERENCE: File Reference: 7326-094
; CURRENT APPLICATION NUMBER: US/09/270,767
; CURRENT FILING DATE: 1999-03-17
; NUMBER OF SEQ ID NOS: 62517
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 39036
; LENGTH: 959
; TYPE: PRT
; ORGANISM: Drosophila melanogaster
; FEATURE:
; OTHER INFORMATION: Xaa means any amino acid
;
US-09-270-767-39036

Query Match      70.6%; Score 36; DB 2; Length 959;
Best Local Similarity 62.5%; Pred. No. 3.7e+02;
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy      1 IILECVYC 8
      | | | | |
Db      395 IILYCYC 402

RESULT 31
US-09-270-767-54253
; Sequence 54253, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
; APPLICANT: Homburger et al.
; TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
; FILE REFERENCE: File Reference: 7326-094
; CURRENT APPLICATION NUMBER: US/09/270,767
; CURRENT FILING DATE: 1999-03-17
; NUMBER OF SEQ ID NOS: 62517
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 54253
; LENGTH: 959
; TYPE: PRT
; ORGANISM: Drosophila melanogaster
; FEATURE:
; OTHER INFORMATION: Xaa means any amino acid
;
US-09-270-767-54253
```

```

Query Match      70.6%; Score 36; DB 2; Length 959;
Best Local Similarity 62.5%; Pred. No. 3.7e+02;
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy      1 IILECVYC 8
      | | | | |
Db      395 IILYCYC 402

RESULT 32
US-09-732-210-490
; Sequence 490, Application US/09732210
; Patent No. 6573361
; GENERAL INFORMATION:
; APPLICANT: Bunkers, Greg J.
; APPLICANT: Liang, Jihong
; APPLICANT: Miltanck, Cindy A.
; APPLICANT: Seale, Jeffrey W.
; APPLICANT: Wu, Yonnie S.
; TITLE OF INVENTION: Anti-fungal Proteins and Methods for Their Use
; FILE REFERENCE: 38-21(15036)B
; CURRENT APPLICATION NUMBER: US/09/732,210
; CURRENT FILING DATE: 2000-12-07
; PRIOR APPLICATION NUMBER: US 60/169,513
; PRIOR FILING DATE: 1999-12-07
; PRIOR APPLICATION NUMBER: US 60/169,340
; PRIOR FILING DATE: 1999-12-07
; NUMBER OF SEQ ID NOS: 1753
; SEQ ID NO 490
; LENGTH: 65
; TYPE: PRT
; ORGANISM: Zea mays
;
US-09-732-210-490

Query Match      68.6%; Score 35; DB 2; Length 65;
Best Local Similarity 62.5%; Pred. No. 40;
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy      1 IILECVYC 8
      | | | | |
Db      10 VILCTCSC 17

RESULT 33
US-09-732-210-1066
; Sequence 1066, Application US/09732210
; Patent No. 6573361
; GENERAL INFORMATION:
; APPLICANT: Bunkers, Greg J.
; APPLICANT: Liang, Jihong
; APPLICANT: Miltanck, Cindy A.
; APPLICANT: Seale, Jeffrey W.
; APPLICANT: Wu, Yonnie S.
; TITLE OF INVENTION: Anti-fungal Proteins and Methods for Their Use
; FILE REFERENCE: 38-21(15036)B
; CURRENT APPLICATION NUMBER: US/09/732,210
; CURRENT FILING DATE: 2000-12-07
; PRIOR APPLICATION NUMBER: US 60/169,513
; PRIOR FILING DATE: 1999-12-07
; PRIOR APPLICATION NUMBER: US 60/169,340
; PRIOR FILING DATE: 1999-12-07
; NUMBER OF SEQ ID NOS: 1753
; SEQ ID NO 1066
; LENGTH: 102
; TYPE: PRT
; ORGANISM: Pichia gilliermondii
;
US-09-732-210-1066

Query Match      68.6%; Score 35; DB 2; Length 102;
Best Local Similarity 85.7%; Pred. No. 62;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

OY 3 LECYCK 9
|||
Db 71 LECYCK 77

RESULT 34

US-09-732-210-1058
; Sequence 1058, Application US/097322210
; Patent No. 6573361
; GENERAL INFORMATION:
; APPLICANT: Bunker, Greg J.
; APPLICANT: Liang, Jihong
; APPLICANT: Mitcanck, Cindy A.
; APPLICANT: Seale, Jeffrey W.
; APPLICANT: Wu, Yonnie S.
; TITLE OF INVENTION: Anti-fungal Proteins and Methods for Their Use
; FILE REFERENCE: 38-21(15036)B
; CURRENT APPLICATION NUMBER: US/09/732,210
; CURRENT FILING DATE: 2000-12-07
; PRIOR APPLICATION NUMBER: US 60/169,513
; PRIOR FILING DATE: 1999-12-07
; PRIOR APPLICATION NUMBER: US 60/169,340
; PRIOR FILING DATE: 1999-12-07
; NUMBER OF SEQ ID NOS: 1753
; SEQ ID NO 1058
; LENGTH: 105
; TYPE: PRT
; ORGANISM: Debaryomyces occidentalis
US-09-732-210-1058

Query Match

Best Local Similarity 68.6%; Score 35; DB 2; Length 105;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 3 LECYCK 9
|||
Db 71 LECYCK 77

RESULT 35

US-09-732-210-1067
; Sequence 1067, Application US/097322210
; Patent No. 6573361
; GENERAL INFORMATION:
; APPLICANT: Bunker, Greg J.
; APPLICANT: Liang, Jihong
; APPLICANT: Mitcanck, Cindy A.
; APPLICANT: Seale, Jeffrey W.
; APPLICANT: Wu, Yonnie S.
; TITLE OF INVENTION: Anti-fungal Proteins and Methods for Their Use
; FILE REFERENCE: 38-21(15036)B
; CURRENT APPLICATION NUMBER: US/09/732,210
; CURRENT FILING DATE: 2000-12-07
; PRIOR APPLICATION NUMBER: US 60/169,513
; PRIOR FILING DATE: 1999-12-07
; PRIOR APPLICATION NUMBER: US 60/169,340
; PRIOR FILING DATE: 1999-12-07
; NUMBER OF SEQ ID NOS: 1753
; SEQ ID NO 1067
; LENGTH: 105
; TYPE: PRT
; ORGANISM: Pichia jadinii
US-09-732-210-1067

Query Match

Best Local Similarity 68.6%; Score 35; DB 2; Length 105;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 3 LECYCK 9
|||
Db 71 LECYCK 77

RESULT 36

US-08-557-128-6
; Sequence 6, Application US/08557128
; Patent No. 5849524
; GENERAL INFORMATION:
; APPLICANT: KONDO, Keiji
; APPLICANT: KAJIWARA, Susumu
; APPLICANT: MISAWA, No. 5849524ihko
; TITLE OF INVENTION: TRANSFORMATION SYSTEMS FOR THE YEAST
; TITLE OF INVENTION: CANDIDA UTILIS AND THE EXPRESSION OF HETEROLOGOUS GENES
; TITLE OF INVENTION: THEREWITH
; NUMBER OF SEQUENCES: 40
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Foley & Lardner
; STREET: 3000 K Street, N.W., Suite 500
; CITY: Washington
; STATE: D.C.
; COUNTRY: USA
; ZIP: 20007-5109
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/557,128
; FILING DATE: 25-JAN-1996
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: WO PCT/JP95/01005
; FILING DATE: 25-MAY-1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 7-129287
; FILING DATE: 28-APR-1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 6-285823
; FILING DATE: 26-OCT-1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 6-135015
; FILING DATE: 25-MAY-1994
; ATTORNEY/AGENT INFORMATION:
; NAME: BENT, Stephen A.
; REGISTRATION NUMBER: 29,768
; REFERENCE/DOCKET NUMBER: 49441/108
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202) 672-5300
; TELEFAX: (202) 672-5399
; TELEX: 904136
; INFORMATION FOR SEQ ID NO: 6:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 106 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-557-128-6

Query Match

Best Local Similarity 68.6%; Score 35; DB 1; Length 106;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 3 LECYCK 9
|||
Db 72 LECYCK 78

RESULT 37

US-09-242-690A-39
; Sequence 39, Application US/09242690A
; Patent No. 6284534
; GENERAL INFORMATION:
; APPLICANT: KONDO, KEIJI
; APPLICANT: MIURA, YUTAKA
; TITLE OF INVENTION: YEAST VECTOR AND METHOD OF PRODUCING PROTEINS USING THE


```

; TITLE OF INVENTION: SAME
; FILE REFERENCE: 04941/0118
; CURRENT APPLICATION NUMBER: US/09/242,690A
; CURRENT FILING DATE: 1999-02-23
; PRIOR APPLICATION NUMBER: PCT/JP97/02924
; PRIOR FILING DATE: 1997-08-22
; PRIOR APPLICATION NUMBER: JP 8/241062
; PRIOR FILING DATE: 1996-08-23
; NUMBER OF SEQ ID NOS: 66
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 39
; LENGTH: 106
; TYPE: PRT
; ORGANISM: Candida utilis
US-09-242-690A-39

Query Match      68.6%; Score 35; DB 2; Length 106;
Best Local Similarity 85.7%; Pred. No. 65;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy      3 LECVYCK 9
      |||||
      72 LECVYCK 78

RESULT 38
US-09-732-210-370
; Sequence 370, Application US/09732210
; Patent No. 6573361
; GENERAL INFORMATION:
; APPLICANT: Bunkers, Greg J.
; APPLICANT: Liang, Jihong
; APPLICANT: Mitranck, Cindy A.
; APPLICANT: Seale, Jeffrey W.
; APPLICANT: Wu, Yomie S.
; TITLE OF INVENTION: Anti-fungal Proteins and Methods for Their Use
; FILE REFERENCE: 38-21(15036)B
; CURRENT APPLICATION NUMBER: US/09/732,210
; CURRENT FILING DATE: 2000-12-07
; PRIOR APPLICATION NUMBER: US 60/169,513
; PRIOR FILING DATE: 1999-12-07
; PRIOR APPLICATION NUMBER: US 60/169,340
; PRIOR FILING DATE: 1999-12-07
; NUMBER OF SEQ ID NOS: 1753
; SEQ ID NO 370
; LENGTH: 106
; TYPE: PRT
; ORGANISM: Candida maltosa
US-09-732-210-370

Query Match      68.6%; Score 35; DB 2; Length 106;
Best Local Similarity 85.7%; Pred. No. 65;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy      3 LECVYCK 9
      |||||
      72 LECVYCK 78

Db      72 LECVYCK 78

RESULT 39
US-09-908-855-39
; Sequence 39, Application US/09908855
; Patent No. 6610514
; GENERAL INFORMATION:
; APPLICANT: KONDO, KEIJI
; APPLICANT: MURA, YUTAYA
; TITLE OF INVENTION: YEAST VECTOR AND METHOD OF PRODUCING PROTEINS USING THE
; FILE REFERENCE: 04941/0118
; CURRENT APPLICATION NUMBER: US/09/908,855
; CURRENT FILING DATE: 2001-07-20
; PRIOR APPLICATION NUMBER: 09/242,690
; PRIOR FILING DATE: 1999-02-23
```

```

; PRIOR APPLICATION NUMBER: JP 8/241062
; PRIOR FILING DATE: 1996-08-23
; NUMBER OF SEQ ID NOS: 66
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 39
; LENGTH: 106
; TYPE: PRT
; ORGANISM: Candida utilis
US-09-908-855-39

Query Match      68.6%; Score 35; DB 2; Length 106;
Best Local Similarity 85.7%; Pred. No. 65;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy      3 LECVYCK 9
      |||||
      72 LECVYCK 78

Db      72 LECVYCK 78

RESULT 40
US-09-674-826B-2
; Sequence 2, Application US/09674826B
; Patent No. 6638735
; GENERAL INFORMATION:
; APPLICANT: Doosan Corporation
; APPLICANT: Korea Institute of Science and Technology
; TITLE OF INVENTION: Plasmid for gene expression in Pichia ciferri and
; FILE REFERENCE: PCT-981031
; CURRENT APPLICATION NUMBER: US/09/674,826B
; CURRENT FILING DATE: 2000-11-07
; NUMBER OF SEQ ID NOS: 18
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2
; LENGTH: 106
; TYPE: PRT
; ORGANISM: Pichia ciferrii
US-09-674-826B-2

Query Match      68.6%; Score 35; DB 2; Length 106;
Best Local Similarity 85.7%; Pred. No. 65;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy      3 LECVYCK 9
      |||||
      72 LECVYCK 78

Db      72 LECVYCK 78

RESULT 41
US-09-248-796A-19756
; Sequence 19756, Application US/09248796A
; Patent No. 6747137
; GENERAL INFORMATION:
; APPLICANT: Keith Weinstock et al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDA ALBICAN
; FILE REFERENCE: 107196.132
; CURRENT APPLICATION NUMBER: US/09/248,796A
; CURRENT FILING DATE: 1999-02-12
; PRIOR APPLICATION NUMBER: US 60/074,725
; PRIOR FILING DATE: 1998-02-13
; PRIOR APPLICATION NUMBER: US 60/096,409
; PRIOR FILING DATE: 1998-08-13
; NUMBER OF SEQ ID NOS: 28208
; SEQ ID NO 19756
; LENGTH: 111
; TYPE: PRT
; ORGANISM: Candida albicans
US-09-248-796A-19756

Query Match      68.6%; Score 35; DB 2; Length 111;
Best Local Similarity 85.7%; Pred. No. 68;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

QY 3 LECVYCK 9
Db 77 LECVYCK 83

RESULT 42
US-09-270-767-61408
; Sequence 61408, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:

; APPLICANT: Homburger et al.
; TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
; FILE REFERENCE: File Reference: 7326-094
; CURRENT APPLICATION NUMBER: US/09/270,767
; CURRENT FILING DATE: 1999-03-17
; NUMBER OF SEQ ID NOS: 62517
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 61408
; LENGTH: 144
; TYPE: PRT
; ORGANISM: Drosophila melanogaster
; FEATURE:
; OTHER INFORMATION: Xaa means any amino acid
US-09-270-767-61408

Query Match 68.6%; Score 35; DB 2; Length 144;
Best Local Similarity 50.0%; Pred. No. 87;
Matches 4; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 1 IILECVYC 8
Db 110 LVLSCLYC 117

RESULT 43
US-09-248-796A-14192
; Sequence 14192, Application US/09248796A
; Patent No. 6747137
; GENERAL INFORMATION:

; APPLICANT: Keith Weinstein et al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDA ALBICAN
; TITLE OF INVENTION: FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 107196.132
; CURRENT APPLICATION NUMBER: US/09/248,796A
; CURRENT FILING DATE: 1999-02-12
; PRIOR APPLICATION NUMBER: US 60/074,725
; PRIOR FILING DATE: 1998-02-13
; PRIOR APPLICATION NUMBER: US 60/096,409
; PRIOR FILING DATE: 1998-08-13
; NUMBER OF SEQ ID NOS: 28208
; SEQ ID NO 14192
; LENGTH: 193
; TYPE: PRT
; ORGANISM: Candida albicans
US-09-248-796A-14192

Query Match 68.6%; Score 35; DB 2; Length 193;
Best Local Similarity 66.7%; Pred. No. 1.2e+02;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 IILECVYCK 9
Db 86 IVECSNCK 94

RESULT 44
US-09-270-767-45876
; Sequence 45876, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:

; APPLICANT: Homburger et al.
; TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster

; FILE REFERENCE: File Reference: 7326-094
; CURRENT APPLICATION NUMBER: US/09/270,767
; CURRENT FILING DATE: 1999-03-17
; NUMBER OF SEQ ID NOS: 62517
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 45876
; LENGTH: 341
; TYPE: PRT
; ORGANISM: Drosophila melanogaster
; FEATURE:
; OTHER INFORMATION: Xaa means any amino acid
US-09-270-767-45876

Query Match 68.6%; Score 35; DB 2; Length 341;
Best Local Similarity 50.0%; Pred. No. 2e+02;
Matches 4; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 1 IILECVYC 8
Db 307 LVLSCLYC 314

RESULT 45
US-08-904-452-2
; Sequence 2, Application US/08904452
; Patent No. 6083742
; GENERAL INFORMATION:

; APPLICANT: Randazzo, Filippo M.
; TITLE OF INVENTION: Mammalian Deep Orange Proteins
; NUMBER OF SEQUENCES: 4
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Chiron Corporation
; STREET: 4560 Horton Street
; CITY: Emeryville
; STATE: California
; COUNTRY: U.S.A.
; ZIP: 94608-2916
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/904,452
; FILING DATE: 31-JUL-1997
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Potter, Jane E.R.
; REGISTRATION NUMBER: 33,332
; REFERENCE/DOCKET NUMBER: 1240.004
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (510) 923-2718
; TELEFAX: (510) 655-3542
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 486 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-904-452-2

Query Match 68.6%; Score 35; DB 2; Length 486;
Best Local Similarity 62.5%; Pred. No. 2.8e+02;
Matches 5; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 IILECVYC 8
Db 453 VAAECVYC 460

RESULT 46
US-09-517-639-2

```
; Sequence 2, Application US/09517639
; Patent No. 6414120
; GENERAL INFORMATION:
; APPLICANT: Randazzo, Filippo M.
; TITLE OF INVENTION: Mammalian Deep Orange Proteins
; NUMBER OF SEQUENCES: 4
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Chiron Corporation
; STREET: 4560 Horton Street
; CITY: Emeryville
; STATE: California
; COUNTRY: U.S.A.
; ZIP: 94608-2916
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/517,639
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/08/904,452
; FILING DATE: 31-JUL-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Potter, Jane E. R.
; REGISTRATION NUMBER: 33,332
; REFERENCE/DOCKET NUMBER: 1240.004
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (510) 923-2718
; TELEFAX: (510) 655-3542
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 486 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-09-517-639-2

Query Match      68.6%; Score 35; DB 2; Length 486;
Best Local Similarity 62.5%; Pred. No. 2.8e+02;
Matches 5; Conservative 1; Mismatches 2; Indels 0; Gaps 0;
```

```
QY      1 IILECYC 8
DB      453 VAACVYC 460
```

```
RESULT 47
US-08-904-452-4
; Sequence 4, Application US/08904452
; Patent No. 6083742
; GENERAL INFORMATION:
; APPLICANT: Randazzo, Filippo M.
; TITLE OF INVENTION: Mammalian Deep Orange Proteins
; NUMBER OF SEQUENCES: 4
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Chiron Corporation
; STREET: 4560 Horton Street
; CITY: Emeryville
; STATE: California
; COUNTRY: U.S.A.
; ZIP: 94608-2916
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/904,452
; FILING DATE: 31-JUL-1997
```

```
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Potter, Jane E. R.
; REGISTRATION NUMBER: 33,332
; REFERENCE/DOCKET NUMBER: 1240.004
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (510) 923-2718
; TELEFAX: (510) 655-3542
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 973 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-904-452-4
```

```
Query Match      68.6%; Score 35; DB 2; Length 973;
Best Local Similarity 62.5%; Pred. No. 5.4e+02;
Matches 5; Conservative 1; Mismatches 2; Indels 0; Gaps 0;
```

```
QY      1 IILECYC 8
DB      940 VAACVYC 947
```

```
RESULT 48
US-09-517-639-4
; Sequence 4, Application US/09517639
; Patent No. 6414120
; GENERAL INFORMATION:
; APPLICANT: Randazzo, Filippo M.
; TITLE OF INVENTION: Mammalian Deep Orange Proteins
; NUMBER OF SEQUENCES: 4
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Chiron Corporation
; STREET: 4560 Horton Street
; CITY: Emeryville
; STATE: California
; COUNTRY: U.S.A.
; ZIP: 94608-2916
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/517,639
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/08/904,452
; FILING DATE: 31-JUL-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Potter, Jane E. R.
; REGISTRATION NUMBER: 33,332
; REFERENCE/DOCKET NUMBER: 1240.004
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (510) 923-2718
; TELEFAX: (510) 655-3542
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 973 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-09-517-639-4
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Query Match      68.6%; Score 35; DB 2; Length 973;
Best Local Similarity 62.5%; Pred. No. 5.4e+02;
Matches 5; Conservative 1; Mismatches 2; Indels 0; Gaps 0;
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 Db 940 VAAECVYC 947

RESULT 49

US-09-248-796A-16119
 ; Sequence 16119, Application US/09248796A
 ; Patent No. 6747137
 ; GENERAL INFORMATION:
 ; APPLICANT: Keith Weinstock et al
 ; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDA ALBICAN
 ; TITLE OF INVENTION: FOR DIAGNOSTICS AND THERAPEUTICS
 ; FILE REFERENCE: 107196.132
 ; CURRENT APPLICATION NUMBER: US/09/248,796A
 ; PRIOR FILING DATE: 1999-02-12
 ; PRIOR APPLICATION NUMBER: US 60/074,725
 ; PRIOR FILING DATE: 1998-02-13
 ; PRIOR APPLICATION NUMBER: US 60/096,409
 ; PRIOR FILING DATE: 1998-08-13
 ; NUMBER OF SEQ ID NOS: 28208
 ; SEQ ID NO 16119
 ; LENGTH: 1068
 ; TYPE: PRT
 ; ORGANISM: Candida albicans
 ; FEATURE:
 ; NAME/KEY: UNSURE
 ; LOCATION: (5), (6), (51)
 ; OTHER INFORMATION: Identity of amino acid sequences at the above locations are unkno
 US-09-248-796A-16119

Query March 68.6%; Score 35; DB 2; Length 1068;
 Best Local Similarity 83.3%; Pred. No. 6e+02; 0; Indels 0; Gaps 0;
 Matches 5; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

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 Db 1018 LQCVYC 1023

RESULT 50
 US-08-658-136-5
 ; Sequence 5, Application US/08658136
 ; Patent No. 6071717
 ; GENERAL INFORMATION:
 ; APPLICANT: KLINGER, KATHERINE W
 ; APPLICANT: LANDES, GREGORY M
 ; APPLICANT: BURR, TIMOTHY C
 ; APPLICANT: CONNORS, TIMOTHY D
 ; APPLICANT: DACKOWSKI, WILLIAM
 ; APPLICANT: GERMINO, GREGORY
 ; APPLICANT: QIAN, FENG
 ; TITLE OF INVENTION: POLYCYSTIC KIDNEY DISEASE GENE
 ; NUMBER OF SEQUENCES: 58
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: GENZYME CORPORATION
 ; STREET: ONE MOUNTAIN ROAD
 ; CITY: FRAMINGHAM
 ; STATE: MASSACHUSETTS
 ; COUNTRY: USA
 ; ZIP: 01701
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: Patentin Release #1.0, Version #1.25
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/658,136
 ; FILING DATE:
 ; CLASSIFICATION: 435
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: LASSEN, ELIZABETH
 ; REGISTRATION NUMBER: 31,845

REFERENCE/DOCKET NUMBER: GEN4-17.8
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: 508-872-8400
 ; TELEFAX: 508-872-5415
 ; INFORMATION FOR SEQ ID NO: 5:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 4302 amino acids
 ; TYPE: amino acid
 ; TOPOLOGY: linear
 ; MOLECULE TYPE: protein
 ; US-08-658-136-5

Query March 68.6%; Score 35; DB 2; Length 4302;
 Best Local Similarity 66.7%; Pred. No. 2.3e+03; 0; Indels 0; Gaps 0;
 Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;
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 Db 2366 VSLECVSC 2374

Search completed: May 5, 2006, 03:13:02
 Job time : 24.7 secs

GenCore version 5.1.7
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OM protein - protein search, using sw model

Run on: May 5, 2006, 07:56:48 ; Search time 56 Seconds
(without alignments)
67.151 Million cell updates/sec

Title: US-08-170-344-41
Perfect score: 11
Sequence: 1 IILECYCK 9

Scoring table: BIOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1867569 seqs, 417829326 residues

Total number of hits satisfying chosen parameters: 1867569

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 1000 summaries

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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7	51	100.0	33	4	US-10-476-570-19
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22	51	100.0	371	5	US-10-899-771-6
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53	37	72.5	1255	4	US-10-451-689-3	Sequence 3, Appl1
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163	34	66.7	208	6	US-11-058-073-1333	Sequence 133, App	236	33	64.7	351	4	US-10-282-122A-44261	Sequence 44261, A
164	34	66.7	259	5	US-10-732-923-14339	Sequence 14339, A	237	33	64.7	351	5	US-10-857-625-773	Sequence 773, App
165	34	66.7	273	4	US-10-369-493-12865	Sequence 12865, A	238	33	64.7	357	4	US-10-282-122A-71931	Sequence 71931, A
166	34	66.7	293	4	US-10-424-599-196576	Sequence 196576, A	239	33	64.7	363	3	US-09-764-864-974	Sequence 974, App
167	34	66.7	347	5	US-10-650-274-101	Sequence 101, App	240	33	64.7	363	4	US-10-437-963-196953	Sequence 196953, A
168	34	66.7	358	4	US-10-237-566-2	Sequence 2, Appl1	241	33	64.7	434	4	US-10-437-963-196187	Sequence 196187, A
169	34	66.7	358	4	US-10-237-566-3	Sequence 3, Appl1	242	33	64.7	440	4	US-10-425-114-57225	Sequence 57225, A
170	34	66.7	380	5	US-09-405-032-138	Sequence 138, App	243	33	64.7	448	5	US-10-779-597-136	Sequence 136, App
171	34	66.7	380	5	US-10-762-159-138	Sequence 138, App	244	33	64.7	450	5	US-10-221-625-63	Sequence 63, Appl1
172	34	66.7	380	6	US-11-058-073-175	Sequence 175, App	245	33	64.7	455	6	US-11-097-143-12477	Sequence 12477, A
173	34	66.7	388	4	US-10-237-566-1	Sequence 1, Appl1	246	33	64.7	459	4	US-10-276-774-2051	Sequence 2051, App

247	33	64.7	461	3	US-09-764-864-1409	Sequence 1409, Ap	320	32	62.7	254	4	US-10-104-047-3921	Sequence 3921, Ap
248	33	64.7	472	6	US-11-097-143-11808	Sequence 11808, A	321	32	62.7	255	4	US-10-724-972A-4455	Sequence 4455, Ap
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251	33	64.7	803	4	US-10-369-493-1441	Sequence 1441, Ap	324	32	62.7	278	4	US-10-108-160A-4876	Sequence 4876, Ap
252	33	64.7	857	6	US-11-097-143-18459	Sequence 18459, A	325	32	62.7	282	4	US-10-282-122A-53836	Sequence 53836, A
253	33	64.7	984	6	US-11-097-143-37704	Sequence 37704, A	326	32	62.7	290	4	US-10-094-749-2565	Sequence 2565, Ap
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256	33	64.7	1102	4	US-09-364-609-8	Sequence 8, Appli	329	32	62.7	301	4	US-10-369-493-20569	Sequence 24082, A
257	33	64.7	1102	4	US-10-164-432-2	Sequence 2, Appli	330	32	62.7	308	3	US-10-425-115-584082	Sequence 4269, Ap
258	33	64.7	1102	4	US-10-221-635-49	Sequence 49, Appl	331	32	62.7	312	4	US-10-198-070-81	Sequence 81, Appl
259	33	64.7	1102	4	US-10-243-552-220	Sequence 920, Appl	332	32	62.7	313	5	US-10-450-763-33133	Sequence 54, Appl
260	33	64.7	1750	5	US-10-450-763-51880	Sequence 51880, A	333	32	62.7	315	4	US-10-171-311-54	Sequence 44503, A
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265	33	64.7	4823	4	US-10-051-874-169	Sequence 169, App	338	32	62.7	328	4	US-10-282-122A-58706	Sequence 58706, A
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267	32	62.7	18	3	US-09-865-943-39	Sequence 23255, A	340	32	62.7	328	4	US-10-335-977-6995	Sequence 54812, A
268	32	62.7	18	3	US-09-865-943-43	Sequence 232, Appl	341	32	62.7	329	4	US-10-425-114-54812	Sequence 54453, A
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271	32	62.7	18	3	US-09-865-943-139	Sequence 141, App	344	32	62.7	335	5	US-10-450-763-31275	Sequence 80, Appl
272	32	62.7	18	3	US-09-865-943-141	Sequence 141, App	345	32	62.7	341	4	US-10-198-070-80	Sequence 43154, A
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274	32	62.7	44	4	US-10-425-115-26402	Sequence 26402, A	347	32	62.7	351	4	US-10-369-493-6508	Sequence 69, Appl
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276	32	62.7	52	4	US-10-425-115-377219	Sequence 377219, A	349	32	62.7	352	4	US-10-272-419-29	Sequence 20519, A
277	32	62.7	55	4	US-10-424-599-206254	Sequence 206254, A	350	32	62.7	352	5	US-10-733-993-30519	Sequence 31170, A
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279	32	62.7	59	4	US-10-424-599-209780	Sequence 209780, A	352	32	62.7	371	4	US-10-032-585-7741	Sequence 7741, Ap
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281	32	62.7	64	4	US-10-425-115-280303	Sequence 280303, A	354	32	62.7	388	6	US-10-954-778-61	Sequence 61, Appl
282	32	62.7	65	4	US-10-424-599-144704	Sequence 144704, A	355	32	62.7	395	4	US-10-081-816-36	Sequence 36, Appl
283	32	62.7	65	4	US-10-425-115-244705	Sequence 244705, A	356	32	62.7	395	4	US-10-447-328-48	Sequence 48, Appl
284	32	62.7	69	4	US-10-424-599-256404	Sequence 256404, A	357	32	62.7	398	4	US-10-291-737-6	Sequence 6, Appli
285	32	62.7	70	4	US-10-425-115-205163	Sequence 205163, A	358	32	62.7	403	4	US-10-365-564-6	Sequence 141922, A
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287	32	62.7	74	4	US-10-425-115-343031	Sequence 343031, A	360	32	62.7	405	5	US-10-450-763-38327	Sequence 783, Ap
288	32	62.7	76	4	US-10-106-699-8524	Sequence 8524, Ap	361	32	62.7	407	5	US-10-744-379-6	Sequence 61, Appl
289	32	62.7	79	4	US-10-425-115-35620	Sequence 35620, A	362	32	62.7	411	4	US-10-954-778-71	Sequence 71, Appl
290	32	62.7	86	4	US-10-425-115-366274	Sequence 366274, A	363	32	62.7	425	5	US-10-369-493-39297	Sequence 39297, A
291	32	62.7	90	4	US-10-501-283-3168	Sequence 3168, Ap	364	32	62.7	430	5	US-11-097-143-6141	Sequence 6141, Ap
292	32	62.7	99	5	US-10-501-283-5024	Sequence 5024, Ap	365	32	62.7	442	6	US-10-225-810-35	Sequence 35, Appl
293	32	62.7	99	5	US-09-764-863-580	Sequence 580, App	366	32	62.7	449	4	US-10-369-493-5326	Sequence 5326, Ap
294	32	62.7	101	3	US-10-424-599-220408	Sequence 220408, A	367	32	62.7	459	4	US-10-283-132A-48320	Sequence 48320, A
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297	32	62.7	128	5	US-10-487-556-138	Sequence 138, Appl	370	32	62.7	474	4	US-10-442-754-2	Sequence 572, App
298	32	62.7	149	6	US-11-021-949-16	Sequence 16, Appl	371	32	62.7	474	4	US-10-408-765A-572	Sequence 21, Appl
299	32	62.7	152	4	US-10-369-493-446	Sequence 446, App	372	32	62.7	474	5	US-10-442-754-2	Sequence 3019, Ap
300	32	62.7	153	4	US-10-369-493-23675	Sequence 23675, A	373	32	62.7	474	5	US-10-442-754-2	Sequence 732, App
301	32	62.7	154	4	US-11-021-949-21	Sequence 21, Appl	374	32	62.7	474	5	US-10-442-754-2	Sequence 130, Appl
302	32	62.7	154	6	US-10-094-749-2758	Sequence 2758, Ap	375	32	62.7	474	5	US-10-442-754-2	Sequence 163, Appl
303	32	62.7	164	4	US-10-094-749-2758	Sequence 2758, Ap	376	32	62.7	474	5	US-10-442-754-2	Sequence 163, Appl
304	32	62.7	168	3	US-09-864-761-43696	Sequence 43696, A	377	32	62.7	474	5	US-10-442-754-2	Sequence 14235, A
305	32	62.7	180	5	US-10-450-763-56827	Sequence 56827, A	378	32	62.7	474	5	US-10-442-754-2	Sequence 34, Appl
306	32	62.7	183	3	US-09-895-913A-330	Sequence 330, Appl	379	32	62.7	474	5	US-10-442-754-2	Sequence 162, Appl
307	32	62.7	192	5	US-10-450-763-44606	Sequence 44606, A	380	32	62.7	474	5	US-10-442-754-2	Sequence 19, Appl
308	32	62.7	200	5	US-10-450-763-38330	Sequence 38330, A	381	32	62.7	474	5	US-10-442-754-2	Sequence 33, Appl
309	32	62.7	200	5	US-10-450-763-39294	Sequence 39294, A	382	32	62.7	474	5	US-10-442-754-2	Sequence 164, Appl
310	32	62.7	201	4	US-10-450-763-39294	Sequence 39294, A	383	32	62.7	474	5	US-10-442-754-2	Sequence 165, Appl
311	32	62.7	210	4	US-10-425-115-29954	Sequence 29954, A	384	32	62.7	474	5	US-10-442-754-2	Sequence 152, Appl
312	32	62.7	213	5	US-10-732-923-10854	Sequence 10854, A	385	32	62.7	474	5	US-10-442-754-2	Sequence 108731, A
313	32	62.7	221	5	US-10-450-763-59380	Sequence 59380, A	386	32	62.7	474	5	US-10-442-754-2	Sequence 32, Appl
314	32	62.7	228	4	US-10-437-963-186822	Sequence 186822, A	387	32	62.7	474	5	US-10-442-754-2	
315	32	62.7	242	4	US-10-264-237-1943	Sequence 1943, Ap	388	32	62.7	474	5	US-10-442-754-2	
316	32	62.7	245	3	US-09-864-761-36722	Sequence 36722, A	389	32	62.7	474	5	US-10-442-754-2	
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394	32	62.7	725	5	US-10-732-923-16952	Sequence 16952, A	467	31	60.8	87	4	US-10-767-701-62430	Sequence 62430, A
395	32	62.7	737	4	US-10-437-963-182812	Sequence 182812, A	468	31	60.8	88	4	US-10-023-896-135	Sequence 135, Appl
396	32	62.7	782	3	US-09-244-805-21	Sequence 21, Appl	469	31	60.8	88	4	US-10-767-701-58862	Sequence 58862, A
397	32	62.7	782	3	US-09-245-277-21	Sequence 21, Appl	470	31	60.8	88	6	US-11-122-117-135	Sequence 135, Appl
398	32	62.7	782	4	US-10-792-481-21	Sequence 21, Appl	471	31	60.8	89	3	US-09-864-408A-3978	Sequence 3978, Appl
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402	32	62.7	846	4	US-10-437-963-203997	Sequence 203997, A	475	31	60.8	92	4	US-10-321-856-133	Sequence 133, Appl
403	32	62.7	878	5	US-10-450-763-36843	Sequence 36843, A	476	31	60.8	93	5	US-10-367-057-24	Sequence 24, Appl
404	32	62.7	893	5	US-10-450-763-31864	Sequence 31864, A	477	31	60.8	96	4	US-10-424-599-198793	Sequence 198793, A
405	32	62.7	948	6	US-11-097-143-957	Sequence 957, Appl	478	31	60.8	98	4	US-10-425-115-350413	Sequence 350413, A
406	32	62.7	1051	6	US-11-097-143-33462	Sequence 33462, A	479	31	60.8	99	4	US-10-437-963-130981	Sequence 130981, A
407	32	62.7	1119	4	US-10-437-963-164148	Sequence 164148, A	480	31	60.8	100	4	US-10-291-265-314	Sequence 314, Appl
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409	32	62.7	1201	6	US-11-097-143-39342	Sequence 39342, A	482	31	60.8	103	3	US-09-983-002-649	Sequence 649, Appl
410	32	62.7	1345	4	US-10-108-605-249	Sequence 249, Appl	483	31	60.8	103	3	US-09-984-490-649	Sequence 649, Appl
411	32	62.7	1368	4	US-10-263-929-149	Sequence 149, Appl	484	31	60.8	103	3	US-09-973-278-367	Sequence 367, Appl
412	32	62.7	1368	5	US-10-494-921-57	Sequence 57, Appl	485	31	60.8	103	4	US-10-424-599-210400	Sequence 210400, A
413	32	62.7	1368	6	US-11-097-143-33016	Sequence 23016, A	486	31	60.8	103	4	US-10-437-963-124396	Sequence 124396, A
414	32	62.7	1514	6	US-11-097-143-16173	Sequence 16173, A	487	31	60.8	103	4	US-10-425-115-252029	Sequence 252029, A
415	32	62.7	1577	5	US-10-450-763-36834	Sequence 36834, A	488	31	60.8	106	3	US-09-062-113-78	Sequence 78, Appl
416	32	62.7	1577	5	US-10-450-763-57482	Sequence 57482, A	489	31	60.8	106	4	US-10-232-858-78	Sequence 78, Appl
417	32	62.7	3067	3	US-09-949-029-18	Sequence 18, Appl	490	31	60.8	106	4	US-10-785-109-78	Sequence 78, Appl
418	32	62.7	3067	6	US-11-097-143-34878	Sequence 34878, A	491	31	60.8	106	4	US-10-785-114-78	Sequence 78, Appl
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420	31	60.8	17	3	US-09-865-943-21	Sequence 21, Appl	493	31	60.8	106	5	US-10-929-958-78	Sequence 958, Appl
421	31	60.8	17	3	US-09-865-943-109	Sequence 109, Appl	494	31	60.8	106	5	US-10-929-748-78	Sequence 78, Appl
422	31	60.8	17	3	US-09-865-943-130	Sequence 130, Appl	495	31	60.8	106	5	US-10-979-303-78	Sequence 78, Appl
423	31	60.8	18	3	US-09-865-943-39	Sequence 39, Appl	496	31	60.8	106	5	US-10-979-654-78	Sequence 78, Appl
424	31	60.8	18	3	US-09-865-943-113	Sequence 113, Appl	497	31	60.8	107	4	US-10-023-896-78	Sequence 78, Appl
425	31	60.8	18	3	US-09-865-943-134	Sequence 134, Appl	498	31	60.8	107	6	US-11-122-117-78	Sequence 78, Appl
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429	31	60.8	42	4	US-10-437-963-165883	Sequence 165883, A	502	31	60.8	110	4	US-10-425-115-361218	Sequence 361218, A
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431	31	60.8	47	4	US-10-425-115-210440	Sequence 210440, A	504	31	60.8	116	3	US-09-746-783-222	Sequence 222, Appl
432	31	60.8	47	4	US-10-425-115-196008	Sequence 196008, A	505	31	60.8	116	4	US-10-114-893-170	Sequence 170, Appl
433	31	60.8	48	4	US-10-424-599-245484	Sequence 245484, A	506	31	60.8	120	4	US-10-094-747-3272	Sequence 3272, Appl
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435	31	60.8	52	4	US-10-424-599-196056	Sequence 196056, A	508	31	60.8	126	4	US-10-156-761-7882	Sequence 7882, Appl
436	31	60.8	54	4	US-10-106-698-4985	Sequence 4985, Appl	509	31	60.8	132	4	US-10-424-599-144228	Sequence 144228, A
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442	31	60.8	64	4	US-10-425-114-68289	Sequence 68289, A	515	31	60.8	140	4	US-10-424-599-283135	Sequence 283135, A
443	31	60.8	67	4	US-10-437-963-182190	Sequence 182190, A	516	31	60.8	141	4	US-10-437-963-113528	Sequence 113528, A
444	31	60.8	67	4	US-10-424-599-258265	Sequence 258265, A	517	31	60.8	143	3	US-09-062-113-77	Sequence 77, Appl
445	31	60.8	68	3	US-09-764-855-95	Sequence 95, Appl	518	31	60.8	143	4	US-10-232-858-77	Sequence 77, Appl
446	31	60.8	68	4	US-10-072-349-95	Sequence 95, Appl	519	31	60.8	143	4	US-10-785-109-77	Sequence 77, Appl
447	31	60.8	68	4	US-10-437-963-403636	Sequence 403636, A	520	31	60.8	143	4	US-10-785-114-77	Sequence 77, Appl
448	31	60.8	69	4	US-10-424-599-237999	Sequence 237999, A	521	31	60.8	143	5	US-10-929-958-77	Sequence 77, Appl
449	31	60.8	73	4	US-10-424-599-213945	Sequence 213945, A	522	31	60.8	143	5	US-10-929-748-77	Sequence 77, Appl
450	31	60.8	74	3	US-09-764-846-190	Sequence 190, Appl	523	31	60.8	143	5	US-10-979-303-77	Sequence 77, Appl
451	31	60.8	74	3	US-10-091-483-190	Sequence 190, Appl	524	31	60.8	144	4	US-10-979-654-77	Sequence 77, Appl
452	31	60.8	74	4	US-10-091-483-190	Sequence 190, Appl	525	31	60.8	144	4	US-10-268-473-7	Sequence 7, Appl1
453	31	60.8	74	4	US-10-091-483-362	Sequence 262, Appl	526	31	60.8	144	4	US-10-268-473-7	Sequence 7, Appl1
454	31	60.8	74	4	US-10-424-599-210770	Sequence 210770, A	527	31	60.8	145	3	US-09-062-113-15	Sequence 15, Appl
455	31	60.8	75	4	US-10-767-701-48151	Sequence 48151, A	528	31	60.8	145	4	US-10-232-858-15	Sequence 15, Appl
456	31	60.8	77	4	US-10-264-049-3870	Sequence 3870, Appl	529	31	60.8	145	4	US-10-785-109-15	Sequence 15, Appl
457	31	60.8	77	4	US-10-424-599-161342	Sequence 161342, A	530	31	60.8	145	4	US-10-785-114-15	Sequence 15, Appl
458	31	60.8	77	4	US-10-424-599-261858	Sequence 261858, A	531	31	60.8	145	5	US-10-929-958-15	Sequence 15, Appl
459	31	60.8	77	4	US-10-425-115-330105	Sequence 230105, A	532	31	60.8	145	5	US-10-929-748-15	Sequence 15, Appl
460	31	60.8	81	4	US-10-425-115-206226	Sequence 206226, A	533	31	60.8	145	5	US-10-979-303-15	Sequence 15, Appl
461	31	60.8	82	4	US-10-767-701-56819	Sequence 56819, A	534	31	60.8	145	5	US-10-979-654-15	Sequence 15, Appl
462	31	60.8	82	4	US-10-425-115-448934	Sequence 348934, A	535	31	60.8	146	4	US-10-375-680-58	Sequence 58, Appl
463	31	60.8	84	4	US-10-424-599-203311	Sequence 203311, A	536	31	60.8	147	3	US-09-756-854-20	Sequence 20, Appl
464	31	60.8	84	4	US-10-425-115-291890	Sequence 291890, A	537	31	60.8	147	4	US-10-041-574-20	Sequence 20, Appl
465	31	60.8	86	4	US-10-291-265-746	Sequence 766, Appl	538	31	60.8	147	4	US-10-834-966-20	Sequence 20, Appl

539	31	60.8	147	6	US-11-148-333-20	Sequence 20, Appl	612	31	60.8	222	4	US-10-425-115-317438	Sequence 317438,
540	31	60.8	149	5	US-10-450-763-36897	Sequence 36897, A	613	31	60.8	225	4	US-10-437-963-159448	Sequence 159448,
541	31	60.8	149	6	US-11-021-949-15	Sequence 15, Appl	614	31	60.8	244	6	US-11-097-143-12444	Sequence 12444, A
542	31	60.8	149	6	US-11-021-949-360	Sequence 360, App	615	31	60.8	245	3	US-09-895-913A-48	Sequence 48, Appl
543	31	60.8	150	4	US-10-437-963-199911	Sequence 199911, A	616	31	60.8	245	4	US-10-282-122A-60154	Sequence 60154, A
544	31	60.8	150	4	US-10-367-057-11	Sequence 11, Appl	617	31	60.8	250	3	US-09-761-120-29	Sequence 29, Appl
545	31	60.8	151	5	US-10-617-320-4594	Sequence 4594, Ap	618	31	60.8	250	3	US-09-335-325-29	Sequence 29, Appl
546	31	60.8	153	4	US-10-437-963-181751	Sequence 181751, A	619	31	60.8	250	4	US-10-131-241-29	Sequence 29, Appl
547	31	60.8	154	3	US-09-062-113-13	Sequence 13, Appl	620	31	60.8	250	4	US-10-127-066-29	Sequence 29, Appl
548	31	60.8	154	4	US-10-106-698-6189	Sequence 6189, Ap	621	31	60.8	250	4	US-10-402-364-29	Sequence 29, Appl
549	31	60.8	154	4	US-10-232-858-13	Sequence 13, Appl	622	31	60.8	263	5	US-10-706-635-15	Sequence 15, Appl
550	31	60.8	154	4	US-10-785-109-13	Sequence 13, Appl	623	31	60.8	265	3	US-09-764-870-307	Sequence 307, App
551	31	60.8	154	4	US-10-785-114-13	Sequence 13, Appl	624	31	60.8	265	4	US-10-125-540-307	Sequence 307, App
552	31	60.8	154	4	US-10-425-115-320880	Sequence 320880, A	625	31	60.8	271	5	US-10-450-763-32728	Sequence 32728, A
553	31	60.8	154	5	US-10-929-958-13	Sequence 13, Appl	626	31	60.8	272	3	US-09-062-113-75	Sequence 75, Appl
554	31	60.8	154	5	US-10-929-748-13	Sequence 13, Appl	627	31	60.8	272	4	US-10-232-858-75	Sequence 75, Appl
555	31	60.8	154	5	US-10-929-303-13	Sequence 13, Appl	628	31	60.8	272	4	US-10-785-109-75	Sequence 75, Appl
556	31	60.8	154	5	US-10-979-654-13	Sequence 13, Appl	629	31	60.8	272	4	US-10-785-114-75	Sequence 75, Appl
557	31	60.8	154	5	US-10-979-654-13	Sequence 13, Appl	630	31	60.8	272	5	US-10-929-958-75	Sequence 75, Appl
558	31	60.8	157	4	US-10-424-559-229548	Sequence 229548, A	631	31	60.8	272	5	US-10-929-748-75	Sequence 75, Appl
559	31	60.8	160	3	US-09-761-120-34	Sequence 34, Appl	632	31	60.8	272	5	US-10-979-654-75	Sequence 75, Appl
560	31	60.8	160	3	US-09-335-325-34	Sequence 34, Appl	633	31	60.8	272	5	US-10-979-654-75	Sequence 75, Appl
561	31	60.8	160	4	US-10-131-241-34	Sequence 34, Appl	634	31	60.8	272	5	US-10-450-763-32729	Sequence 32729
562	31	60.8	160	4	US-10-127-066-34	Sequence 34, Appl	635	31	60.8	285	4	US-10-017-161-2308	Sequence 2308, Ap
563	31	60.8	160	4	US-10-127-066-34	Sequence 34, Appl	636	31	60.8	285	4	US-10-292-798-1954	Sequence 1954, Ap
564	31	60.8	161	4	US-10-767-701-53831	Sequence 53831, A	637	31	60.8	286	4	US-10-104-047-2850	Sequence 2850, Ap
565	31	60.8	161	4	US-10-125-985-3	Sequence 3, Appl1	638	31	60.8	292	4	US-10-017-161-32	Sequence 32, Appl
566	31	60.8	163	4	US-10-437-963-176738	Sequence 176738, A	639	31	60.8	292	4	US-10-343-650A-572	Sequence 572, App
567	31	60.8	166	4	US-10-437-963-171162	Sequence 171162, A	640	31	60.8	293	3	US-09-896-056A-18	Sequence 18, Appl
568	31	60.8	169	3	US-09-925-301-950	Sequence 950, App	641	31	60.8	293	3	US-09-894-924-18	Sequence 18, Appl
569	31	60.8	170	4	US-10-437-963-158478	Sequence 158478, A	642	31	60.8	293	4	US-10-456-819-18	Sequence 18, Appl
570	31	60.8	173	4	US-10-467-243-6	Sequence 6, Appl1	643	31	60.8	293	4	US-10-688-132-18	Sequence 18, Appl
571	31	60.8	174	4	US-10-467-243-18	Sequence 18, Appl	644	31	60.8	293	5	US-10-871-997-18	Sequence 18, Appl
572	31	60.8	174	4	US-10-437-963-139672	Sequence 139672, A	645	31	60.8	294	4	US-10-282-122A-68798	Sequence 68798, A
573	31	60.8	175	4	US-10-437-963-176791	Sequence 176791, A	646	31	60.8	296	3	US-09-864-761-33344	Sequence 33344, A
574	31	60.8	179	4	US-10-425-115-216287	Sequence 216287, A	647	31	60.8	296	4	US-10-029-336-32072	Sequence 32072, A
575	31	60.8	187	3	US-09-062-113-81	Sequence 81, Appl	648	31	60.8	296	4	US-10-425-115-357119	Sequence 357119, A
576	31	60.8	187	3	US-09-840-795-81	Sequence 81, Appl	649	31	60.8	299	4	US-10-282-122A-55861	Sequence 55861, A
577	31	60.8	187	4	US-10-232-858-81	Sequence 81, Appl	650	31	60.8	300	4	US-10-282-122A-42789	Sequence 42789, A
578	31	60.8	187	4	US-10-785-109-81	Sequence 81, Appl	651	31	60.8	300	4	US-10-282-122A-73305	Sequence 73305, A
579	31	60.8	187	4	US-10-785-114-81	Sequence 81, Appl	652	31	60.8	300	4	US-10-282-122A-75624	Sequence 75624, A
580	31	60.8	187	5	US-10-929-958-81	Sequence 81, Appl	653	31	60.8	303	4	US-10-477-527-29	Sequence 29, Appl
581	31	60.8	187	5	US-10-929-748-81	Sequence 81, Appl	654	31	60.8	303	4	US-10-425-114-47372	Sequence 47372, A
582	31	60.8	187	5	US-10-979-303-81	Sequence 81, Appl	655	31	60.8	308	6	US-11-097-143-26259	Sequence 26259, A
583	31	60.8	187	5	US-10-979-654-81	Sequence 81, Appl	656	31	60.8	308	6	US-11-097-143-26259	Sequence 26259, A
584	31	60.8	189	3	US-09-811-284-136	Sequence 136, App	657	31	60.8	308	6	US-10-282-122A-59885	Sequence 59885, A
585	31	60.8	191	4	US-10-437-963-201456	Sequence 201456, A	658	31	60.8	310	6	US-10-282-122A-59885	Sequence 59885, A
586	31	60.8	192	4	US-10-425-115-212681	Sequence 212681, A	659	31	60.8	311	6	US-11-145-198-3	Sequence 3, Appl1
587	31	60.8	195	4	US-10-437-963-158546	Sequence 158546, A	660	31	60.8	311	6	US-11-145-198-3	Sequence 3, Appl1
588	31	60.8	197	3	US-09-062-113-76	Sequence 76, Appl	661	31	60.8	311	6	US-11-145-198-3	Sequence 3, Appl1
589	31	60.8	197	3	US-09-935-390A-25	Sequence 25, Appl	662	31	60.8	317	6	US-10-425-114-43499	Sequence 43499, A
590	31	60.8	197	4	US-10-232-858-76	Sequence 76, Appl	663	31	60.8	317	4	US-09-062-113-80	Sequence 80, Appl
591	31	60.8	197	4	US-10-785-109-76	Sequence 76, Appl	664	31	60.8	321	3	US-10-232-858-80	Sequence 80, Appl
592	31	60.8	197	4	US-10-785-114-76	Sequence 76, Appl	665	31	60.8	321	4	US-10-785-109-80	Sequence 80, Appl
593	31	60.8	197	5	US-10-929-958-76	Sequence 76, Appl	666	31	60.8	321	4	US-10-785-114-80	Sequence 80, Appl
594	31	60.8	197	5	US-10-929-748-76	Sequence 76, Appl	667	31	60.8	321	4	US-10-929-958-80	Sequence 80, Appl
595	31	60.8	197	5	US-10-979-303-76	Sequence 76, Appl	668	31	60.8	321	5	US-10-929-748-80	Sequence 80, Appl
596	31	60.8	197	5	US-10-979-654-76	Sequence 76, Appl	669	31	60.8	321	5	US-10-979-303-80	Sequence 80, Appl
597	31	60.8	200	4	US-10-424-559-181607	Sequence 181607, A	670	31	60.8	321	5	US-10-979-654-80	Sequence 80, Appl
598	31	60.8	209	4	US-10-425-114-41399	Sequence 41399, A	671	31	60.8	322	3	US-09-726-654-72	Sequence 72, Appl
599	31	60.8	209	4	US-10-425-114-41399	Sequence 41399, A	672	31	60.8	322	4	US-10-042-141-72	Sequence 72, Appl
600	31	60.8	210	3	US-09-764-870-468	Sequence 468, App	673	31	60.8	322	4	US-10-919-272-72	Sequence 72, Appl
601	31	60.8	210	4	US-10-036-869-21	Sequence 21, Appl	674	31	60.8	322	5	US-11-145-199-35	Sequence 35, Appl
602	31	60.8	210	4	US-10-125-540-468	Sequence 468, App	675	31	60.8	323	6	US-11-145-199-35	Sequence 35, Appl
603	31	60.8	216	5	US-10-732-923-1246	Sequence 1246, Ap	676	31	60.8	323	6	US-11-145-199-35	Sequence 35, Appl
604	31	60.8	217	3	US-09-853-161-71	Sequence 71, Appl	677	31	60.8	323	6	US-11-145-199-35	Sequence 35, Appl
605	31	60.8	217	3	US-09-852-659A-71	Sequence 71, Appl	678	31	60.8	324	6	US-11-145-199-35	Sequence 35, Appl
606	31	60.8	217	3	US-09-852-797-71	Sequence 71, Appl	679	31	60.8	325	5	US-10-947-476-10	Sequence 10, Appl
607	31	60.8	217	4	US-10-058-993-71	Sequence 71, Appl	680	31	60.8	325	5	US-09-062-113-71	Sequence 71, Appl
608	31	60.8	217	5	US-10-951-993-71	Sequence 71, Appl	681	31	60.8	326	4	US-10-232-858-71	Sequence 71, Appl
609	31	60.8	218	6	US-11-097-143-29910	Sequence 29910, A	682	31	60.8	326	4	US-10-311-671-17	Sequence 17, Appl
610	31	60.8	221	4	US-10-437-963-203757	Sequence 203757, A	683	31	60.8	326	4	US-10-311-671-17	Sequence 17, Appl
611	31	60.8	221	5	US-10-487-078-14	Sequence 14, Appl	684	31	60.8	326	4	US-10-785-109-71	Sequence 71, Appl

685	31	60.8	326	4	US-10-785-114-71	Sequence 71, Appl	758	31	60.8	360	3	US-09-062-113-67	Sequence 67, Appl
686	31	60.8	326	5	US-10-928-958-71	Sequence 71, Appl	759	31	60.8	360	4	US-10-232-858-67	Sequence 67, Appl
687	31	60.8	326	5	US-10-928-748-71	Sequence 71, Appl	760	31	60.8	360	4	US-10-785-109-67	Sequence 67, Appl
688	31	60.8	326	5	US-10-979-303-71	Sequence 71, Appl	761	31	60.8	360	4	US-10-785-114-67	Sequence 67, Appl
689	31	60.8	326	5	US-10-979-654-71	Sequence 17, Appl	762	31	60.8	360	5	US-10-929-958-67	Sequence 67, Appl
690	31	60.8	326	6	US-11-100-583-17	Sequence 17, Appl	763	31	60.8	360	5	US-10-929-748-67	Sequence 67, Appl
691	31	60.8	327	3	US-09-062-113-72	Sequence 72, Appl	764	31	60.8	360	5	US-10-979-303-67	Sequence 67, Appl
692	31	60.8	327	4	US-10-223-858-72	Sequence 72, Appl	765	31	60.8	360	5	US-10-979-654-67	Sequence 67, Appl
693	31	60.8	327	4	US-10-369-493-20302	Sequence 20302, A	766	31	60.8	360	6	US-11-145-199-6	Sequence 6, Appl1
694	31	60.8	327	4	US-10-785-109-72	Sequence 72, Appl	767	31	60.8	360	6	US-11-145-198-6	Sequence 6, Appl1
695	31	60.8	327	4	US-10-785-114-72	Sequence 72, Appl	768	31	60.8	360	6	US-11-145-198-6	Sequence 6, Appl1
696	31	60.8	327	5	US-10-929-958-72	Sequence 72, Appl	769	31	60.8	360	6	US-11-145-193-6	Sequence 6, Appl1
697	31	60.8	327	5	US-10-929-748-72	Sequence 72, Appl	770	31	60.8	361	4	US-10-028-072-252	Sequence 252, App
698	31	60.8	327	5	US-10-979-303-72	Sequence 72, Appl	771	31	60.8	361	4	US-10-140-808-252	Sequence 252, App
699	31	60.8	327	5	US-10-979-654-72	Sequence 72, Appl	772	31	60.8	361	4	US-10-121-049-252	Sequence 252, App
700	31	60.8	328	4	US-10-292-798-50	Sequence 70, Appl	773	31	60.8	361	4	US-10-123-004-252	Sequence 252, App
701	31	60.8	329	4	US-10-425-115-207407	Sequence 207407, A	774	31	60.8	361	4	US-10-140-470-252	Sequence 252, App
702	31	60.8	331	4	US-10-369-493-13169	Sequence 13169, A	775	31	60.8	361	4	US-10-175-746-252	Sequence 252, App
703	31	60.8	333	4	US-10-135-8728-6	Sequence 6, Appl1	776	31	60.8	361	4	US-10-176-918-252	Sequence 252, App
704	31	60.8	333	6	US-11-145-189-2	Sequence 2, Appl1	777	31	60.8	361	4	US-10-176-921-252	Sequence 252, App
705	31	60.8	333	6	US-11-145-198-2	Sequence 2, Appl1	778	31	60.8	361	4	US-10-137-865-252	Sequence 252, App
706	31	60.8	333	6	US-11-145-498-2	Sequence 2, Appl1	779	31	60.8	361	4	US-10-140-474-252	Sequence 252, App
707	31	60.8	333	6	US-11-145-498-2	Sequence 2, Appl1	780	31	60.8	361	4	US-10-142-431-252	Sequence 252, App
708	31	60.8	335	4	US-10-425-114-53467	Sequence 53467, A	781	31	60.8	361	4	US-10-143-114-252	Sequence 252, App
709	31	60.8	335	4	US-10-425-114-72068	Sequence 72068, A	782	31	60.8	361	4	US-10-142-419-252	Sequence 252, App
710	31	60.8	335	4	US-10-437-963-152172	Sequence 152172, A	783	31	60.8	361	4	US-10-123-262-252	Sequence 252, App
711	31	60.8	336	5	US-10-733-923-1237	Sequence 1237, Ap	784	31	60.8	361	4	US-10-142-823-252	Sequence 252, App
712	31	60.8	338	4	US-10-467-243-26	Sequence 26, Appl	785	31	60.8	361	4	US-10-121-050-252	Sequence 252, App
713	31	60.8	339	3	US-09-788-142-2	Sequence 2, Appl1	786	31	60.8	361	4	US-10-141-755-252	Sequence 252, App
714	31	60.8	339	3	US-09-761-120-2	Sequence 2, Appl1	787	31	60.8	361	4	US-10-143-032-252	Sequence 252, App
715	31	60.8	339	3	US-09-335-325-2	Sequence 2, Appl1	788	31	60.8	361	4	US-10-123-108-252	Sequence 252, App
716	31	60.8	339	4	US-10-131-241-2	Sequence 2, Appl1	789	31	60.8	361	4	US-10-123-236-252	Sequence 252, App
717	31	60.8	339	4	US-10-127-066-2	Sequence 2, Appl1	790	31	60.8	361	4	US-10-123-261-252	Sequence 252, App
718	31	60.8	339	4	US-10-402-364-2	Sequence 2, Appl1	791	31	60.8	361	4	US-10-140-921-252	Sequence 252, App
719	31	60.8	339	4	US-10-401-108-2	Sequence 2, Appl1	792	31	60.8	361	4	US-10-140-928-252	Sequence 252, App
720	31	60.8	340	3	US-09-250-883-17	Sequence 17, Appl	793	31	60.8	361	4	US-10-121-045-252	Sequence 252, App
721	31	60.8	340	3	US-09-821-803A-2	Sequence 2, Appl1	794	31	60.8	361	4	US-10-123-292-252	Sequence 252, App
722	31	60.8	340	5	US-10-738-780-17	Sequence 17, Appl	795	31	60.8	361	4	US-10-123-903-252	Sequence 252, App
723	31	60.8	340	5	US-10-498-698-3	Sequence 3, Appl1	796	31	60.8	361	4	US-10-124-819-252	Sequence 252, App
724	31	60.8	340	6	US-11-145-199-34	Sequence 34, Appl	797	31	60.8	361	4	US-10-124-812-252	Sequence 252, App
725	31	60.8	345	6	US-11-145-198-34	Sequence 34, Appl	798	31	60.8	361	4	US-10-140-925-252	Sequence 252, App
726	31	60.8	345	6	US-11-145-498-34	Sequence 34, Appl	799	31	60.8	361	4	US-10-160-498-252	Sequence 252, App
727	31	60.8	345	6	US-11-145-193-34	Sequence 34, Appl	800	31	60.8	361	4	US-10-124-824-252	Sequence 252, App
728	31	60.8	346	4	US-10-043-487-217	Sequence 217, App	801	31	60.8	361	4	US-10-127-825A-252	Sequence 252, App
729	31	60.8	346	4	US-10-437-963-157334	Sequence 157334, A	802	31	60.8	361	4	US-10-127-829A-252	Sequence 252, App
730	31	60.8	349	5	US-10-105-934-15	Sequence 15, Appl	803	31	60.8	361	4	US-10-127-835A-252	Sequence 252, App
731	31	60.8	349	5	US-10-895-676-15	Sequence 15, Appl	804	31	60.8	361	4	US-10-127-839A-252	Sequence 252, App
732	31	60.8	351	4	US-09-062-113-74	Sequence 74, Appl	805	31	60.8	361	4	US-10-127-901A-252	Sequence 252, App
733	31	60.8	351	4	US-10-232-858-74	Sequence 74, Appl	806	31	60.8	361	4	US-10-128-693A-252	Sequence 252, App
734	31	60.8	351	4	US-10-785-109-74	Sequence 74, Appl	807	31	60.8	361	4	US-10-131-813A-252	Sequence 252, App
735	31	60.8	351	4	US-10-785-114-74	Sequence 74, Appl	808	31	60.8	361	4	US-10-131-818A-252	Sequence 252, App
736	31	60.8	351	5	US-10-929-958-74	Sequence 74, Appl	809	31	60.8	361	4	US-10-131-823A-252	Sequence 252, App
737	31	60.8	351	5	US-10-929-748-74	Sequence 74, Appl	810	31	60.8	361	4	US-10-131-824A-252	Sequence 252, App
738	31	60.8	351	5	US-10-979-303-74	Sequence 74, Appl	811	31	60.8	361	4	US-10-131-830A-252	Sequence 252, App
739	31	60.8	351	5	US-10-979-654-74	Sequence 74, Appl	812	31	60.8	361	4	US-10-131-837A-252	Sequence 252, App
740	31	60.8	352	3	US-09-761-120-39	Sequence 39, Appl	813	31	60.8	361	4	US-10-137-872A-252	Sequence 252, App
741	31	60.8	352	3	US-09-335-325-39	Sequence 39, Appl	814	31	60.8	361	4	US-10-147-500-252	Sequence 252, App
742	31	60.8	352	4	US-10-131-241-39	Sequence 39, Appl	815	31	60.8	361	4	US-10-147-502-252	Sequence 252, App
743	31	60.8	352	4	US-10-127-066-39	Sequence 39, Appl	816	31	60.8	361	4	US-10-147-517-252	Sequence 252, App
744	31	60.8	352	4	US-10-402-364-39	Sequence 39, Appl	817	31	60.8	361	4	US-10-147-526-252	Sequence 252, App
745	31	60.8	355	6	US-11-097-143-3688	Sequence 2688, Ap	818	31	60.8	361	4	US-10-147-527-252	Sequence 252, App
746	31	60.8	357	4	US-10-017-161-2110	Sequence 2110, Ap	819	31	60.8	361	4	US-10-147-527-252	Sequence 252, App
747	31	60.8	357	4	US-10-252-798-1756	Sequence 1756, Ap	820	31	60.8	361	4	US-10-121-041-252	Sequence 252, App
748	31	60.8	357	4	US-10-425-114-68966	Sequence 68966, A	821	31	60.8	361	4	US-10-121-043-252	Sequence 252, App
749	31	60.8	358	4	US-10-425-114-37066	Sequence 37066, A	822	31	60.8	361	4	US-10-121-047-252	Sequence 252, App
750	31	60.8	359	3	US-09-062-113-70	Sequence 70, Appl	823	31	60.8	361	4	US-10-123-215-252	Sequence 252, App
751	31	60.8	359	4	US-10-232-858-70	Sequence 70, Appl	824	31	60.8	361	4	US-10-123-902-252	Sequence 252, App
752	31	60.8	359	4	US-10-785-109-70	Sequence 70, Appl	825	31	60.8	361	4	US-10-123-908-252	Sequence 252, App
753	31	60.8	359	4	US-10-785-114-70	Sequence 70, Appl	826	31	60.8	361	4	US-10-123-909-252	Sequence 252, App
754	31	60.8	359	5	US-10-929-958-70	Sequence 70, Appl	827	31	60.8	361	4	US-10-123-910-252	Sequence 252, App
755	31	60.8	359	5	US-10-929-748-70	Sequence 70, Appl	828	31	60.8	361	4	US-10-124-813-252	Sequence 252, App
756	31	60.8	359	5	US-10-979-303-70	Sequence 70, Appl	829	31	60.8	361	4	US-10-124-817-252	Sequence 252, App
757	31	60.8	359	5	US-10-979-654-70	Sequence 70, Appl	830	31	60.8	361	4	US-10-125-922-252	Sequence 252, App

977 31 60.8 361 4 US-10-143-763-252 Sequence 252, App
978 31 60.8 361 4 US-10-142-763-252 Sequence 252, App
979 31 60.8 361 4 US-10-142-765-252 Sequence 252, App
980 31 60.8 361 4 US-10-142-887-252 Sequence 252, App
981 31 60.8 361 4 US-10-143-888-252 Sequence 252, App
982 31 60.8 361 4 US-10-143-034-252 Sequence 252, App
983 31 60.8 361 4 US-10-143-116-252 Sequence 252, App
984 31 60.8 361 4 US-10-144-957-252 Sequence 252, App
985 31 60.8 361 4 US-10-144-992-252 Sequence 252, App
986 31 60.8 361 4 US-10-145-015-252 Sequence 252, App
987 31 60.8 361 4 US-10-145-090-252 Sequence 252, App
988 31 60.8 361 4 US-10-145-091-252 Sequence 252, App
989 31 60.8 361 4 US-10-145-629-252 Sequence 252, App
990 31 60.8 361 4 US-10-145-630-252 Sequence 252, App
991 31 60.8 361 4 US-10-145-747-252 Sequence 252, App
992 31 60.8 361 4 US-10-145-752-252 Sequence 252, App
993 31 60.8 361 4 US-10-145-754-252 Sequence 252, App
994 31 60.8 361 4 US-10-145-755-252 Sequence 252, App
995 31 60.8 361 4 US-10-145-818-252 Sequence 252, App
996 31 60.8 361 4 US-10-145-820-252 Sequence 252, App
997 31 60.8 361 4 US-10-145-872-252 Sequence 252, App
998 31 60.8 361 4 US-10-145-873-252 Sequence 252, App
999 31 60.8 361 4 US-10-147-481-252 Sequence 252, App
1000 31 60.8 361 4 US-10-147-482-252 Sequence 252, App

ALIGNMENTS

RESULT 1
US-10-476-570-23
; Sequence 23, Application US/10476570
; Publication No. US20040170644A1
; GENERAL INFORMATION:
; APPLICANT: COMMISSARIAT A L'ENERGIE ATOMIQUE
; APPLICANT: INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE
; APPLICANT: MAILLIERE, Bernard
; APPLICANT: BOURGAULT-VILLADA, Isabelle
; APPLICANT: POUVELE-MORATILLE, Sandra
; APPLICANT: GUILLET, Jean-Gerard
; TITLE OF INVENTION: Mixture of peptides derived from E6 and/or E7
; FILE REFERENCE: 45636-5071-US
; CURRENT APPLICATION NUMBER: US/10/476,570
; CURRENT FILING DATE: 2003-11-04
; PRIOR APPLICATION NUMBER: PCT/FR02/01533
; PRIOR FILING DATE: 2002-05-03
; PRIOR APPLICATION NUMBER: FR 01 05980
; PRIOR FILING DATE: 2001-05-04
; NUMBER OF SEQ ID NOS: 63
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 23
; LENGTH: 15
; TYPE: PRT
; ORGANISM: artificial sequence
; FEATURE:
; OTHER INFORMATION: Description of the artificial sequence: peptide E6 28-42
US-10-476-570-23
Query Match 100.0%; Score 51; DB 4; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.2;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 IILECYCK 9
|||
Db 6 IILECYCK 14
|||
RESULT 2
US-10-476-570-24
; Sequence 24, Application US/10476570
; Publication No. US20040170644A1
; GENERAL INFORMATION:

APPLICANT: COMMISSARIAT A L'ENERGIE ATOMIQUE
APPLICANT: INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE
APPLICANT: MAILLIERE, Bernard
APPLICANT: BOURGAULT-VILLADA, Isabelle
APPLICANT: POUVELE-MORATILLE, Sandra
APPLICANT: GUILLET, Jean-Gerard
TITLE OF INVENTION: Mixture of peptides derived from E6 and/or E7
FILE REFERENCE: 45636-5071-US
CURRENT APPLICATION NUMBER: US/10/476,570
CURRENT FILING DATE: 2003-11-04
PRIOR APPLICATION NUMBER: PCT/FR02/01533
PRIOR FILING DATE: 2002-05-03
PRIOR APPLICATION NUMBER: FR 01 05980
PRIOR FILING DATE: 2001-05-04
NUMBER OF SEQ ID NOS: 63
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 24
LENGTH: 15
TYPE: PRT
ORGANISM: artificial sequence
FEATURE:
OTHER INFORMATION: Description of the artificial sequence: peptide E6 31-45
US-10-476-570-24
Query Match 100.0%; Score 51; DB 4; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.2;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 IILECYCK 9
|||
Db 3 IILECYCK 11
|||

RESULT 3
US-10-476-570-10
; Sequence 10, Application US/10476570
; Publication No. US20040170644A1
; GENERAL INFORMATION:
; APPLICANT: COMMISSARIAT A L'ENERGIE ATOMIQUE
; APPLICANT: INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE
; APPLICANT: MAILLIERE, Bernard
; APPLICANT: BOURGAULT-VILLADA, Isabelle
; APPLICANT: POUVELE-MORATILLE, Sandra
; APPLICANT: GUILLET, Jean-Gerard
; TITLE OF INVENTION: Mixture of peptides derived from E6 and/or E7
; FILE REFERENCE: 45636-5071-US
; CURRENT APPLICATION NUMBER: US/10/476,570
; CURRENT FILING DATE: 2003-11-04
; PRIOR APPLICATION NUMBER: PCT/FR02/01533
; PRIOR FILING DATE: 2002-05-03
; PRIOR APPLICATION NUMBER: FR 01 05980
; PRIOR FILING DATE: 2001-05-04
; NUMBER OF SEQ ID NOS: 63
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 10
; LENGTH: 21
; TYPE: PRT
; ORGANISM: artificial sequence
; FEATURE:
; OTHER INFORMATION: Description of the artificial sequence: peptide E6 30-50
US-10-476-570-10
Query Match 100.0%; Score 51; DB 4; Length 21;
Best Local Similarity 100.0%; Pred. No. 0.27;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 IILECYCK 9
|||
Db 4 IILECYCK 12
|||

RESULT 4
US-10-476-570-53
; Sequence 53, Application US/10476570
; Publication No. US20040170644A1
; GENERAL INFORMATION:
; APPLICANT: COMMISSARIAT A L'ENERGIE ATOMIQUE
; APPLICANT: INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE
; APPLICANT: MAILLERE, Bernard
; APPLICANT: BOURGAULT-VILLADA, Isabelle
; APPLICANT: POUVELLE-MORATILLE, Sandra
; APPLICANT: GUILLET, Jean-Gerard
; TITLE OF INVENTION: Mixture of peptides derived from E6 and/or E7
; TITLE OF INVENTION: Papillomavirus proteins and uses thereof
; FILE REFERENCE: 45636-5071-US
; CURRENT FILING DATE: 2003-11-04
; PRIOR APPLICATION NUMBER: US/10/476,570
; PRIOR FILING DATE: 2002-05-03
; PRIOR APPLICATION NUMBER: PCT/FR02/01533
; PRIOR FILING DATE: 2002-05-03
; PRIOR APPLICATION NUMBER: FR 01 05980
; NUMBER OF SEQ ID NOS: 63
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO: 53
; LENGTH: 30
; TYPE: PRT
; ORGANISM: artificial sequence
; FEATURE:
; OTHER INFORMATION: Description of the artificial sequence: peptide E6 15-44
US-10-476-570-53

Query Match
Best Local Similarity 100.0%; Score 51; DB 4; Length 30;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 IILECVYCK 9
Db 19 IILECVYCK 27

RESULT 5
US-10-858-384-4
; Sequence 4, Application US/10858384
; Publication No. US20050033025A1
; GENERAL INFORMATION:
; APPLICANT: CHOPPIN, JEANNINE
; APPLICANT: BOURGAULT-VILLADA, ISABELLE
; APPLICANT: GUILLET, JEAN-GERARD
; APPLICANT: CONNAN, FRANCINE
; APPLICANT: FERRIES, ESTELLE
; TITLE OF INVENTION: POLYPEPTIDIC PROTEIN FRAGMENTS OF THE E6 PROTEIN
; TITLE OF INVENTION: OR E7 OF HPV, THEIR PRODUCTION AND THEIR USE
; TITLE OF INVENTION: PARTICULARLY IN VACCINATION
; FILE REFERENCE: 0508-1037-1
; CURRENT APPLICATION NUMBER: US/10/858,384
; CURRENT FILING DATE: 2004-06-02
; PRIOR APPLICATION NUMBER: FR 9907012
; PRIOR FILING DATE: 1999-06-03
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: PatentIn Ver. 3.2
; SEQ ID NO: 4
; LENGTH: 30
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of the Artificial Sequence: Peptide fragment
US-10-858-384-4

Query Match
Best Local Similarity 100.0%; Score 51; DB 5; Length 30;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 IILECVYCK 9

Db 19 IILECVYCK 27

RESULT 6
US-10-476-570-9
; Sequence 9, Application US/10476570
; Publication No. US20040170644A1
; GENERAL INFORMATION:
; APPLICANT: COMMISSARIAT A L'ENERGIE ATOMIQUE
; APPLICANT: INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE
; APPLICANT: MAILLERE, Bernard
; APPLICANT: BOURGAULT-VILLADA, Isabelle
; APPLICANT: POUVELLE-MORATILLE, Sandra
; APPLICANT: GUILLET, Jean-Gerard
; TITLE OF INVENTION: Mixture of peptides derived from E6 and/or E7
; TITLE OF INVENTION: Papillomavirus proteins and uses thereof
; FILE REFERENCE: 45636-5071-US
; CURRENT FILING DATE: 2003-11-04
; PRIOR APPLICATION NUMBER: US/10/476,570
; PRIOR FILING DATE: 2002-05-03
; PRIOR APPLICATION NUMBER: PCT/FR02/01533
; PRIOR FILING DATE: 2002-05-03
; PRIOR APPLICATION NUMBER: FR 01 05980
; NUMBER OF SEQ ID NOS: 63
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO: 9
; LENGTH: 32
; TYPE: PRT
; ORGANISM: artificial sequence
; FEATURE:
; OTHER INFORMATION: Description of the artificial sequence: peptide E6 14-45
US-10-476-570-9

Query Match
Best Local Similarity 100.0%; Score 51; DB 4; Length 32;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 IILECVYCK 9
Db 20 IILECVYCK 28

RESULT 7
US-10-476-570-19
; Sequence 19, Application US/10476570
; Publication No. US20040170644A1
; GENERAL INFORMATION:
; APPLICANT: COMMISSARIAT A L'ENERGIE ATOMIQUE
; APPLICANT: INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE
; APPLICANT: MAILLERE, Bernard
; APPLICANT: BOURGAULT-VILLADA, Isabelle
; APPLICANT: POUVELLE-MORATILLE, Sandra
; APPLICANT: GUILLET, Jean-Gerard
; TITLE OF INVENTION: Mixture of peptides derived from E6 and/or E7
; TITLE OF INVENTION: Papillomavirus proteins and uses thereof
; FILE REFERENCE: 45636-5071-US
; CURRENT APPLICATION NUMBER: US/10/476,570
; CURRENT FILING DATE: 2003-11-04
; PRIOR APPLICATION NUMBER: PCT/FR02/01533
; PRIOR FILING DATE: 2002-05-03
; PRIOR APPLICATION NUMBER: FR 01 05980
; NUMBER OF SEQ ID NOS: 63
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO: 19
; LENGTH: 33
; TYPE: PRT
; ORGANISM: artificial sequence
; FEATURE:
; OTHER INFORMATION: Description of the artificial sequence: peptide E6 14-46
US-10-476-570-19

Query Match 100.0%; Score 51; DB 4; Length 33;
Best Local Similarity 100.0%; Pred. No. 0.41;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 IILECYCK 9
|||
Db 20 IILECYCK 28

RESULT 8
US-10-177-390-6
; Sequence 6, Application US/10177390
; Publication No. US2003014374331
; GENERAL INFORMATION:
; APPLICANT: Schuler, Gerold
; APPLICANT: N.V. Antwerp Innovatielabcentrum
; TITLE OF INVENTION: Improved transfection of Eucaryotic Cells with linear
; FILE REFERENCE: 021505wo/JH/ml
; CURRENT FILING DATE: 2002-06-20
; NUMBER OF SEQ ID NOS: 34
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 6
; LENGTH: 151
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-10-177-390-6

Query Match 100.0%; Score 51; DB 4; Length 151;
Best Local Similarity 100.0%; Pred. No. 1.6;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 IILECYCK 9
|||
Db 26 IILECYCK 34

RESULT 9
US-10-484-063-20
; Sequence 20, Application US/10484063
; Publication No. US20050048467A1
; GENERAL INFORMATION:
; APPLICANT: SASTRY, K. JAGANNADHA
; APPLICANT: TORTOLERO-LUNA, GUILLERMO
; TITLE OF INVENTION: METHODS AND COMPOSITIONS RELATING TO HPV-ASSOCIATED
; FILE REFERENCE: UTSC:560US
; CURRENT APPLICATION NUMBER: US/10/484,063
; CURRENT FILING DATE: 2004-01-16
; PRIOR APPLICATION NUMBER: PCT/US02/23198
; PRIOR FILING DATE: 2002-07-19
; PRIOR APPLICATION NUMBER: 60/306,809
; PRIOR FILING DATE: 2001-07-20
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 20
; LENGTH: 151
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-484-063-20

Query Match 100.0%; Score 51; DB 5; Length 151;
Best Local Similarity 100.0%; Pred. No. 1.6;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 IILECYCK 9
|||
Db 26 IILECYCK 34

RESULT 10

US-10-484-063-27
; Sequence 27, Application US/10484063
; Publication No. US20050048467A1
; GENERAL INFORMATION:
; APPLICANT: SASTRY, K. JAGANNADHA
; APPLICANT: TORTOLERO-LUNA, GUILLERMO
; TITLE OF INVENTION: METHODS AND COMPOSITIONS RELATING TO HPV-ASSOCIATED
; FILE REFERENCE: UTSC:560US
; CURRENT APPLICATION NUMBER: US/10/484,063
; CURRENT FILING DATE: 2004-01-16
; PRIOR APPLICATION NUMBER: PCT/US02/23198
; PRIOR FILING DATE: 2002-07-19
; PRIOR APPLICATION NUMBER: 60/306,809
; PRIOR FILING DATE: 2001-07-20
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 27
; LENGTH: 151
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-10-484-063-27

Query Match 100.0%; Score 51; DB 5; Length 151;
Best Local Similarity 100.0%; Pred. No. 1.6;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 IILECYCK 9
|||
Db 26 IILECYCK 34

RESULT 11
US-10-858-384-2
; Sequence 2, Application US/10858384
; Publication No. US2005003025A1
; GENERAL INFORMATION:
; APPLICANT: CHOPPIN, JEANNINE
; APPLICANT: BOURGAULT VILLADA, ISABELLE
; APPLICANT: GUILLET, JEAN-GERARD
; APPLICANT: CONNAN, FRANCINE
; APPLICANT: FERRIS, ESTELLE
; TITLE OF INVENTION: POLYPEPTIC PROTEIN FRAGMENTS OF THE E6 PROTEIN
; TITLE OF INVENTION: OR E7 OF HPV, THEIR PRODUCTION AND THEIR USE
; FILE REFERENCE: 0508-1037-1
; CURRENT APPLICATION NUMBER: US/10/858,384
; CURRENT FILING DATE: 2004-06-02
; PRIOR APPLICATION NUMBER: FR 9807012
; PRIOR FILING DATE: 1999-06-03
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: PatentIn Ver. 3.2
; SEQ ID NO 2
; LENGTH: 158
; TYPE: PRT
; ORGANISM: Human Papillomavirus
US-10-858-384-2

Query Match 100.0%; Score 51; DB 5; Length 158;
Best Local Similarity 100.0%; Pred. No. 1.6;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 IILECYCK 9
|||
Db 33 IILECYCK 41

RESULT 12
US-10-367-057-16
; Sequence 16, Application US/10367057
; Publication No. US20050100554A1
; GENERAL INFORMATION:

```
APPLICANT: Cuthill, Scott;
APPLICANT: Jackson, Amanda;
APPLICANT: Lewin, David A.;
APPLICANT: Ooi, Chean Eng
TITLE OF INVENTION: Complexes and Methods of Using Same
FILE REFERENCE: 21402-559
CURRENT APPLICATION NUMBER: US/10/367,057
CURRENT FILING DATE: 2003-02-14
PRIOR APPLICATION NUMBER: 60/256,911
PRIOR FILING DATE: 2002-02-14
NUMBER OF SEQ ID NOS: 198
SOFTWARE: CuroSeqList version 0.1
SEQ ID NO 16
LENGTH: 158
TYPE: PRT
ORGANISM: Homo sapiens
US-10-367-057-16
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Query Match      100.0%; Score 51; DB 5; Length 158;
Best Local Similarity 100.0%; Pred. No. 1.6;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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QY      1 1111111111
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DB       33 1111111111
         |||||
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RESULT 13
US-11-021-949-13
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Sequence 13, Application US/11021949
Publication No. US20050142541A1
GENERAL INFORMATION:
APPLICANT: LU, PETER
APPLICANT: GARMAN, JONATHAN DAVID
APPLICANT: BELMARES, MICHAEL P.
APPLICANT: DIAZ-SAMIENTO, CHAMORRO SONOZA
APPLICANT: SCHWEIZER, JOHANNES
TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
TITLE OF INVENTION: AND METHODS OF THEIR USE
FILE REFERENCE: VITA-012
CURRENT APPLICATION NUMBER: US/11/021,949
CURRENT FILING DATE: 2004-12-23
PRIOR APPLICATION NUMBER: 60/532,373
PRIOR FILING DATE: 2003-12-23
NUMBER OF SEQ ID NOS: 361
SOFTWARE: PaateSeq for Windows Version 4.0
SEQ ID NO 13
LENGTH: 158
TYPE: PRT
ORGANISM: human papilloma virus (HPV)
US-11-021-949-13
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Query Match      100.0%; Score 51; DB 6; Length 158;
Best Local Similarity 100.0%; Pred. No. 1.6;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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QY      1 1111111111
         |||||
DB       33 1111111111
         |||||
         41
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RESULT 14
US-10-472-724-2
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Sequence 2, Application US/10472724
Publication No. US20040171806A1
GENERAL INFORMATION:
APPLICANT: Cid-Arregui, Angel
APPLICANT: Zur Hausen, Harald
TITLE OF INVENTION: Modified HPV E6 and E7 genes and proteins useful for vaccination
FILE REFERENCE: 4121-154
CURRENT APPLICATION NUMBER: US/10/472,724
CURRENT FILING DATE: 2003-09-17
PRIOR APPLICATION NUMBER: PCT/EP02/03271
```

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PRIOR FILING DATE: 2002-03-22
PRIOR APPLICATION NUMBER: EP 01107271.7
PRIOR FILING DATE: 2001-03-23
NUMBER OF SEQ ID NOS: 27
SOFTWARE: PatentIn version 3.2
SEQ ID NO 2
LENGTH: 171
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic Construct
US-10-472-724-2
```

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Query Match      100.0%; Score 51; DB 4; Length 171;
Best Local Similarity 100.0%; Pred. No. 1.8;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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QY      1 1111111111
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DB       38 1111111111
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         46
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RESULT 15
US-11-072-288-1
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Sequence 1, Application US/11072288
Publication No. US20050159386A1
GENERAL INFORMATION:
APPLICANT: KIENY, Marie-Paule
APPLICANT: BALLOUT, Jean-Marc
APPLICANT: BIZOUARNE, Nadine
TITLE OF INVENTION: ANTIMETABOLIC COMPOSITION BASED ON IMMUNOGENIC
TITLE OF INVENTION: POLYPEPTIDE WITH MODIFIED CELL LOCATION
FILE REFERENCE: 017753-122
CURRENT APPLICATION NUMBER: US/11/072,288
CURRENT FILING DATE: 2005-03-07
PRIOR APPLICATION NUMBER: US/09/462,993
PRIOR FILING DATE: 2000-04-17
PRIOR APPLICATION NUMBER: PCT/FR98/01576
PRIOR FILING DATE: 1998-07-17
PRIOR APPLICATION NUMBER: FR 97/09152
PRIOR FILING DATE: 1997-07-18
NUMBER OF SEQ ID NOS: 23
SOFTWARE: PatentIn Ver. 2.2
SEQ ID NO 1
LENGTH: 243
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Derived from
OTHER INFORMATION: human papillomavirus, strain HPV-16, E6 protein
OTHER INFORMATION: fused F protein signals, clone E6*TMF.
US-11-072-288-1
```

```
Query Match      100.0%; Score 51; DB 6; Length 243;
Best Local Similarity 100.0%; Pred. No. 2.4;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 1111111111
         |||||
DB       61 1111111111
         |||||
         69
```

```
RESULT 16
US-09-367-309A-1
```

```
Sequence 1, Application US/09367309A
Publication No. US20020081329A1
GENERAL INFORMATION:
APPLICANT: MACFARLAN, RODERICK I.
APPLICANT: MALIAROS, JIM
TITLE OF INVENTION: CHELATING IMMUNOSTIMULATING COMPLEXES
FILE REFERENCE: 017227/0149
CURRENT APPLICATION NUMBER: US/09/367,309A
CURRENT FILING DATE: 1999-08-11
```

PRIOR APPLICATION NUMBER: PCT/AU98/00080
PRIOR FILING DATE: 1998-02-13
PRIOR APPLICATION NUMBER: AU PO 5178
PRIOR FILING DATE: 1997-02-19
NUMBER OF SEQ ID NOS: 6
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 1
LENGTH: 266
TYPE: PRT
ORGANISM: Human papillomavirus type 16
US-09-367-309A-1

Query Match 100.0%; Score 51; DB 3; Length 266;
Best Local Similarity 100.0%; Pred. No. 2.6;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 IILECVYCK 9
Db 33 IILECVYCK 41

RESULT 17
US-10-000-903-4
Sequence 4, Application US/10000903
Publication No. US2002018222A1
GENERAL INFORMATION:
APPLICANT: Bruck, Claudine
APPLICANT: Cabezon Silva, Teresa
APPLICANT: Delisse, Anne-Marie Eva Fernandez
APPLICANT: Gerard, Catherine Marie Ghislaine
APPLICANT: Lombardo-Bencheikh, Angela
TITLE OF INVENTION: Vaccine
FILE REFERENCE: B45107
CURRENT APPLICATION NUMBER: US/10/000.903
CURRENT FILING DATE: 2001-10-01
PRIOR APPLICATION NUMBER: PCT/EP98/05285
PRIOR FILING DATE: 1998-08-17
PRIOR APPLICATION NUMBER: GB 9717953.5
PRIOR FILING DATE: 1997-08-22
NUMBER OF SEQ ID NOS: 23
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 4
LENGTH: 273
TYPE: PRT
ORGANISM: Homo sapien
US-10-000-903-4

Query Match 100.0%; Score 51; DB 4; Length 273;
Best Local Similarity 100.0%; Pred. No. 2.7;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 IILECVYCK 9
Db 139 IILECVYCK 147

RESULT 18
US-10-899-771-4
Sequence 4, Application US/10899771
Publication No. US20050031638A1
GENERAL INFORMATION:
APPLICANT: Dalemans, Wilfried L.J.
APPLICANT: Gerard, Catherine Marie Ghislaine
TITLE OF INVENTION: Compositions Comprising Human Papilloma Virus Proteins
TITLE OF INVENTION: and Fusion Proteins Adjuvanted with a CpG Oligonucleotide
FILE REFERENCE: B45124
CURRENT APPLICATION NUMBER: US/10/899.771
CURRENT FILING DATE: 2004-07-27
PRIOR APPLICATION NUMBER: US/09/581.976
PRIOR FILING DATE: 2000-06-20
PRIOR APPLICATION NUMBER: PCT/EP98/08563
PRIOR FILING DATE: 1998-12-18
PRIOR APPLICATION NUMBER: GB 9727262.9

PRIOR FILING DATE: 1997-12-24
NUMBER OF SEQ ID NOS: 28
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 4
LENGTH: 273
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Chimeric protein (protein D from Haemophilus
OTHER INFORMATION: Influenzae B and B6 from Human papilloma virus type
OTHER INFORMATION: 16)
US-10-899-771-4

Query Match 100.0%; Score 51; DB 5; Length 273;
Best Local Similarity 100.0%; Pred. No. 2.7;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 IILECVYCK 9
Db 139 IILECVYCK 147

RESULT 19
US-10-000-903-10
Sequence 10, Application US/10000903
Publication No. US2002018222A1
GENERAL INFORMATION:
APPLICANT: Bruck, Claudine
APPLICANT: Cabezon Silva, Teresa
APPLICANT: Delisse, Anne-Marie Eva Fernandez
APPLICANT: Gerard, Catherine Marie Ghislaine
APPLICANT: Lombardo-Bencheikh, Angela
TITLE OF INVENTION: Vaccine
FILE REFERENCE: B45107
CURRENT APPLICATION NUMBER: US/10/000.903
CURRENT FILING DATE: 2001-10-01
PRIOR APPLICATION NUMBER: PCT/EP98/05285
PRIOR FILING DATE: 1998-08-17
PRIOR APPLICATION NUMBER: GB 9717953.5
PRIOR FILING DATE: 1997-08-22
NUMBER OF SEQ ID NOS: 23
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 10
LENGTH: 292
TYPE: PRT
ORGANISM: Homo sapien
US-10-000-903-10

Query Match 100.0%; Score 51; DB 4; Length 292;
Best Local Similarity 100.0%; Pred. No. 2.8;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 IILECVYCK 9
Db 158 IILECVYCK 166

RESULT 20
US-10-899-771-10
Sequence 10, Application US/10899771
Publication No. US20050031638A1
GENERAL INFORMATION:
APPLICANT: Dalemans, Wilfried L.J.
APPLICANT: Gerard, Catherine Marie Ghislaine
TITLE OF INVENTION: Compositions Comprising Human Papilloma Virus Proteins
TITLE OF INVENTION: and Fusion Proteins Adjuvanted with a CpG Oligonucleotide
FILE REFERENCE: B45124
CURRENT APPLICATION NUMBER: US/10/899.771
CURRENT FILING DATE: 2004-07-27
PRIOR APPLICATION NUMBER: US/09/581.976
PRIOR FILING DATE: 2000-06-20
PRIOR APPLICATION NUMBER: PCT/EP98/08563
PRIOR FILING DATE: 1998-12-18

PRIOR APPLICATION NUMBER: GB 9727262.9
PRIOR FILING DATE: 1997-12-24
NUMBER OF SEQ ID NOS: 28
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 10
LENGTH: 292
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURES:
OTHER INFORMATION: Chimeric protein (Clyta from Streptococcus
OTHER INFORMATION: pneumoniae and B6 from Human papilloma virus type
OTHER INFORMATION: 16)
US-10-899-771-10

Query Match 100.0%; Score 51; DB 5; Length 292;
Best Local Similarity 100.0%; Pred. No. 2.8;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 IILECVYCK 9
|||
Db 158 IILECVYCK 166

RESULT 21
US-10-000-903-6
Sequence 6, Application US/10000903
Publication No. US20020182221A1
GENERAL INFORMATION:
APPLICANT: Bruck, Claudine
APPLICANT: Cabezon Silva, Teresa
APPLICANT: Delisse, Anne-Marie Eva Bernande
APPLICANT: Gerard, Catherine Marie Ghislaine
APPLICANT: Lombardo-Bencheikh, Angela
TITLE OF INVENTION: Vaccine
FILE REFERENCE: B45107
CURRENT APPLICATION NUMBER: US/10/000,903
CURRENT FILING DATE: 2001-10-01
PRIOR APPLICATION NUMBER: PCT/EP98/05285
PRIOR FILING DATE: 1998-08-17
PRIOR APPLICATION NUMBER: GB 9717953.5
PRIOR FILING DATE: 1997-08-22
NUMBER OF SEQ ID NOS: 23
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 6
LENGTH: 371
TYPE: PRT
ORGANISM: Homo sapien
US-10-000-903-6

Query Match 100.0%; Score 51; DB 4; Length 371;
Best Local Similarity 100.0%; Pred. No. 3.5;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 IILECVYCK 9
|||
Db 139 IILECVYCK 147

RESULT 22
US-10-899-771-6
Sequence 6, Application US/10899771
Publication No. US20050031638A1
GENERAL INFORMATION:
APPLICANT: Dalemans, Wilfried L.J.
APPLICANT: Gerard, Catherine Marie Ghislaine
TITLE OF INVENTION: Compositions Comprising Human Papilloma Virus Proteins
TITLE OF INVENTION: and Fusion Proteins Adjuvanted with a CpG Oligonucleotide
FILE REFERENCE: B45124
CURRENT APPLICATION NUMBER: US/10/899,771
CURRENT FILING DATE: 2004-07-27
PRIOR APPLICATION NUMBER: US/09/581,976
PRIOR FILING DATE: 2000-06-20
PRIOR APPLICATION NUMBER: PCT/EP98/08563

PRIOR FILING DATE: 1998-12-18
PRIOR APPLICATION NUMBER: GB 9727262.9
PRIOR FILING DATE: 1997-12-24
NUMBER OF SEQ ID NOS: 28
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 6
LENGTH: 371
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURES:
OTHER INFORMATION: Chimeric protein (protein D from Haemophilus
OTHER INFORMATION: influenzae B and B67 fusion from Human papilloma
OTHER INFORMATION: virus type 16)
US-10-899-771-6

Query Match 100.0%; Score 51; DB 5; Length 371;
Best Local Similarity 100.0%; Pred. No. 3.5;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 IILECVYCK 9
|||
Db 139 IILECVYCK 147

RESULT 23
US-10-000-903-14
Sequence 14, Application US/10000903
Publication No. US20020182221A1
GENERAL INFORMATION:
APPLICANT: Bruck, Claudine
APPLICANT: Cabezon Silva, Teresa
APPLICANT: Delisse, Anne-Marie Eva Bernande
APPLICANT: Gerard, Catherine Marie Ghislaine
APPLICANT: Lombardo-Bencheikh, Angela
TITLE OF INVENTION: Vaccine
FILE REFERENCE: B45107
CURRENT APPLICATION NUMBER: US/10/000,903
CURRENT FILING DATE: 2001-10-01
PRIOR APPLICATION NUMBER: PCT/EP98/05285
PRIOR FILING DATE: 1998-08-17
PRIOR APPLICATION NUMBER: GB 9717953.5
PRIOR FILING DATE: 1997-08-22
NUMBER OF SEQ ID NOS: 23
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 14
LENGTH: 390
TYPE: PRT
ORGANISM: Homo sapien
US-10-000-903-14

Query Match 100.0%; Score 51; DB 4; Length 390;
Best Local Similarity 100.0%; Pred. No. 3.6;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 IILECVYCK 9
|||
Db 158 IILECVYCK 166

RESULT 24
US-10-899-771-14
Sequence 14, Application US/10899771
Publication No. US20050031638A1
GENERAL INFORMATION:
APPLICANT: Dalemans, Wilfried L.J.
APPLICANT: Gerard, Catherine Marie Ghislaine
TITLE OF INVENTION: Compositions Comprising Human Papilloma Virus Proteins
TITLE OF INVENTION: and Fusion Proteins Adjuvanted with a CpG Oligonucleotide
FILE REFERENCE: B45124
CURRENT APPLICATION NUMBER: US/10/899,771
CURRENT FILING DATE: 2004-07-27
PRIOR APPLICATION NUMBER: US/09/581,976
PRIOR FILING DATE: 2000-06-20

;; PRIOR APPLICATION NUMBER: PCT/EP98/08563
;; PRIOR FILING DATE: 1998-12-18
;; PRIOR APPLICATION NUMBER: GB 9727262.9
;; PRIOR FILING DATE: 1997-12-24
;; NUMBER OF SEQ ID NOS: 28
;; SOFTWARE: FastSeq for Windows Version 3.0
;; SEQ ID NO 14
;; LENGTH: 390
;; TYPE: PRT
;; ORGANISM: Artificial Sequence
;; FEATURE:
;; OTHER INFORMATION: Chimeric protein (Clyta from Streptococcus
;; OTHER INFORMATION: Pneumoniae and E6e7 fusion from Human papilloma
;; OTHER INFORMATION: Virus type 16)
US-10-899-771-14

Query Match 100.0%; Score 51; DB 5; Length 390;
Best Local Similarity 100.0%; Pred. No. 3.6;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 IILECYCK 9
Db 158 IILECYCK 166

RESULT 25
US-10-367-095-10
;; Sequence 10, Application US/10367095
;; Publication No. US20030228696A1
;; GENERAL INFORMATION:
;; APPLICANT: Robin A. Robinson
;; TITLE OF INVENTION: No. US20030228696A1 Insect Cell Line
;; FILE REFERENCE: 44149-1US1
;; CURRENT APPLICATION NUMBER: US/10/367,095
;; PRIOR FILING DATE: 2003-02-14
;; PRIOR APPLICATION NUMBER: US 60/356,119
;; PRIOR FILING DATE: 2002-02-14
;; PRIOR APPLICATION NUMBER: US 60/356,161
;; PRIOR FILING DATE: 2002-02-14
;; PRIOR APPLICATION NUMBER: US 60/356,118
;; PRIOR FILING DATE: 2002-02-14
;; PRIOR APPLICATION NUMBER: US 60/356,133
;; PRIOR FILING DATE: 2002-02-14
;; PRIOR APPLICATION NUMBER: US 60/356,157
;; PRIOR FILING DATE: 2002-02-14
;; PRIOR APPLICATION NUMBER: US 60/356,156
;; PRIOR FILING DATE: 2002-02-14
;; PRIOR APPLICATION NUMBER: US 60/356,123
;; PRIOR FILING DATE: 2002-02-14
;; PRIOR APPLICATION NUMBER: US 60/356,113
;; PRIOR FILING DATE: 2002-02-14
;; PRIOR APPLICATION NUMBER: US 60/356,154
;; PRIOR FILING DATE: 2002-02-14
;; PRIOR APPLICATION NUMBER: US 60/356,135
;; PRIOR FILING DATE: 2002-02-14
;; Remaining Prior Application data removed - See File Wrapper or PALM.
;; NUMBER OF SEQ ID NOS: 13
;; SOFTWARE: FastSeq for Windows Version 4.0
;; SEQ ID NO 10
;; LENGTH: 536
;; TYPE: PRT
;; ORGANISM: Artificial Sequence
;; FEATURE:
;; OTHER INFORMATION: HPV-16 L2/E6 fusion protein
US-10-367-095-10

Query Match 100.0%; Score 51; DB 4; Length 536;
Best Local Similarity 100.0%; Pred. No. 4.8;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 IILECYCK 9
Db 503 IILECYCK 511

RESULT 26
US-10-368-046-10
;; Sequence 10, Application US/10368046
;; Publication No. US20040063188A1
;; GENERAL INFORMATION:
;; APPLICANT: Robin A. Robinson
;; APPLICANT: Victoria Cioce
;; TITLE OF INVENTION: Method for Isolation and Purification of
;; TITLE OF INVENTION: Expressed Gene Products in Vitro
;; FILE REFERENCE: 44149-3US1
;; CURRENT APPLICATION NUMBER: US/10/368,046
;; PRIOR FILING DATE: 2003-02-15
;; PRIOR APPLICATION NUMBER: US 60/356,119
;; PRIOR FILING DATE: 2002-02-14
;; PRIOR APPLICATION NUMBER: US 60/356,161
;; PRIOR FILING DATE: 2002-02-14
;; PRIOR APPLICATION NUMBER: US 60/356,118
;; PRIOR FILING DATE: 2002-02-14
;; PRIOR APPLICATION NUMBER: US 60/356,133
;; PRIOR FILING DATE: 2002-02-14
;; PRIOR APPLICATION NUMBER: US 60/356,157
;; PRIOR FILING DATE: 2002-02-14
;; PRIOR APPLICATION NUMBER: US 60/356,156
;; PRIOR FILING DATE: 2002-02-14
;; PRIOR APPLICATION NUMBER: US 60/356,123
;; PRIOR FILING DATE: 2002-02-14
;; PRIOR APPLICATION NUMBER: US 60/356,113
;; PRIOR FILING DATE: 2002-02-14
;; PRIOR APPLICATION NUMBER: US 60/356,154
;; PRIOR FILING DATE: 2002-02-14
;; PRIOR APPLICATION NUMBER: US 60/356,135
;; PRIOR FILING DATE: 2002-02-14
;; Remaining Prior Application data removed - See File Wrapper or PALM.
;; NUMBER OF SEQ ID NOS: 13
;; SOFTWARE: FastSeq for Windows Version 4.0
;; SEQ ID NO 10
;; LENGTH: 536
;; TYPE: PRT
;; ORGANISM: Artificial Sequence
;; FEATURE:
;; OTHER INFORMATION: HPV-16 L2/E6 fusion protein
US-10-368-046-10

Query Match 100.0%; Score 51; DB 4; Length 536;
Best Local Similarity 100.0%; Pred. No. 4.8;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 IILECYCK 9
Db 503 IILECYCK 511

RESULT 27
US-10-367-367-10
;; Sequence 10, Application US/10367367
;; Publication No. US20040121465A1
;; GENERAL INFORMATION:
;; APPLICANT: Robin A. Robinson
;; TITLE OF INVENTION: Optimization of Gene Sequences of
;; TITLE OF INVENTION: Virus-like Particles for Expression in Insect Cells
;; FILE REFERENCE: 44149-2US1
;; CURRENT APPLICATION NUMBER: US/10/367,367
;; PRIOR FILING DATE: 2003-02-15
;; PRIOR APPLICATION NUMBER: US 60/356,119
;; PRIOR FILING DATE: 2002-02-14
;; PRIOR APPLICATION NUMBER: US 60/356,161
;; PRIOR FILING DATE: 2002-02-14
;; PRIOR APPLICATION NUMBER: US 60/356,118
;; PRIOR FILING DATE: 2002-02-14
;; PRIOR APPLICATION NUMBER: US 60/356,133
;; PRIOR FILING DATE: 2002-02-14

PRIOR APPLICATION NUMBER: US 60/356,157
PRIOR FILING DATE: 2002-02-14
PRIOR APPLICATION NUMBER: US 60/356,156
PRIOR FILING DATE: 2002-02-14
NUMBER OF SEQ ID NOS: 13
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO: 10
LENGTH: 536
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: HPV-16 L2/B6 fusion protein
US-10-367-367-10

Query Match 100.0%; Score 51; DB 4; Length 536;
Best Local Similarity 100.0%; Pred. No. 4.8;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 IILECVYCK 9
DB 503 IILECVYCK 511

RESULT 28
US-10-918-337-10
Sequence 10, Application US/10918337
Publication No. US20050118191A1
GENERAL INFORMATION:
APPLICANT: NOVAVAX, INC., et al.
TITLE OF INVENTION: Optimization of Gene Sequences of
FILE REFERENCE: 19065/2132
CURRENT APPLICATION NUMBER: US/10/918,337
CURRENT FILING DATE: 2004-08-13
PRIOR APPLICATION NUMBER: PCT/US03/04473
PRIOR FILING DATE: 2003-02-14
PRIOR APPLICATION NUMBER: US 60/356,119
PRIOR FILING DATE: 2002-02-14
PRIOR APPLICATION NUMBER: US 60/356,161
PRIOR FILING DATE: 2002-02-14
PRIOR APPLICATION NUMBER: US 60/356,118
PRIOR FILING DATE: 2002-02-14
PRIOR APPLICATION NUMBER: US 60/356,133
PRIOR FILING DATE: 2002-02-14
PRIOR APPLICATION NUMBER: US 60/356,157
PRIOR FILING DATE: 2002-02-14
PRIOR APPLICATION NUMBER: US 60/356,156
PRIOR FILING DATE: 2002-02-14
PRIOR APPLICATION NUMBER: US 60/356,123
PRIOR FILING DATE: 2002-02-14
PRIOR APPLICATION NUMBER: US 60/356,113
PRIOR FILING DATE: 2002-02-14
PRIOR APPLICATION NUMBER: US 60/356,154
PRIOR FILING DATE: 2002-02-14
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 13
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO: 10
LENGTH: 536
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: HPV-16 L2/B6 fusion protein
US-10-918-337-10

Query Match 100.0%; Score 51; DB 5; Length 536;
Best Local Similarity 100.0%; Pred. No. 4.8;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 IILECVYCK 9
DB 503 IILECVYCK 511

RESULT 29
US-10-424-599-250987
Sequence 250987, Application US/10424599
Publication No. US20040031072A1
GENERAL INFORMATION:
APPLICANT: La Rosa Thomas J
APPLICANT: Kovalic David K
APPLICANT: Zhou Yihua
APPLICANT: Cao Yongwei
TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
FILE REFERENCE: 38-21(53223)B
CURRENT APPLICATION NUMBER: US/10/424,599
CURRENT FILING DATE: 2003-04-28
NUMBER OF SEQ ID NOS: 285684
SEQ ID NO: 250987
LENGTH: 236
TYPE: PRT
ORGANISM: Glycine max
FEATURE:
OTHER INFORMATION: Clone ID: PAT_MRT3847_68670C.1.pcp
US-10-424-599-250987

Query Match 82.4%; Score 42; DB 4; Length 236;
Best Local Similarity 100.0%; Pred. No. 62;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 IILECVYCK 8
DB 9 IILECVYCK 15

RESULT 30
US-11-021-949-14
Sequence 14, Application US/11021949
Publication No. US20050142541A1
GENERAL INFORMATION:
APPLICANT: LU, PETER
APPLICANT: GARMAN, JONATHAN DAVID
APPLICANT: BELMARRS, MICHAEL P.
APPLICANT: DIAZ-SARMIENTO, CHAMORRO SOMOZA
APPLICANT: SCHWEIZER, JOHANNES
TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
FILE REFERENCE: VITA-012
CURRENT APPLICATION NUMBER: US/11/021,949
CURRENT FILING DATE: 2004-12-23
PRIOR APPLICATION NUMBER: 60/532,373
PRIOR FILING DATE: 2003-12-23
NUMBER OF SEQ ID NOS: 361
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO: 14
LENGTH: 149
TYPE: PRT
ORGANISM: human papilloma virus (HPV)
US-11-021-949-14

Query Match 80.4%; Score 41; DB 6; Length 149;
Best Local Similarity 77.8%; Pred. No. 60;
Matches 7; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 IILECVYCK 9
DB 26 IILECVYCK 34

RESULT 31
US-11-021-949-361
Sequence 361, Application US/11021949
Publication No. US20050142541A1
GENERAL INFORMATION:
APPLICANT: LU, PETER

```
; APPLICANT: GARMAN, JONATHAN DAVID
; APPLICANT: BELMARES, MICHAEL P.
; APPLICANT: DIAZ-SARMIENTO, CHAMORRO SOMOZA
; APPLICANT: SCHWEIZER, JOHANNES
; TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
; TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
; FILE REFERENCE: VITA-012
; CURRENT APPLICATION NUMBER: US/11/021,949
; CURRENT FILING DATE: 2004-12-23
; PRIOR APPLICATION NUMBER: 60/532,373
; PRIOR FILING DATE: 2003-12-23
; NUMBER OF SEQ ID NOS: 361
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 361
; LENGTH: 158
; TYPE: PRT
; ORGANISM: human papilloma virus (HPV)
US-11-021-949-361

Query Match      80.4%; Score 41; DB 6; Length 158;
Best Local Similarity 66.7%; Pred. No. 63;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY      1 ILECYCK 9
      |::|||
Db      28 ITIDCYCK 36

RESULT 32
US-11-021-949-20
; Sequence 20, Application US/11021949
; Publication No. US20050142541A1
; GENERAL INFORMATION:
; APPLICANT: LU, PETER
; APPLICANT: GARMAN, JONATHAN DAVID
; APPLICANT: BELMARES, MICHAEL P.
; APPLICANT: DIAZ-SARMIENTO, CHAMORRO SOMOZA
; APPLICANT: SCHWEIZER, JOHANNES
; TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
; TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
; FILE REFERENCE: VITA-012
; CURRENT APPLICATION NUMBER: US/11/021,949
; CURRENT FILING DATE: 2004-12-23
; PRIOR APPLICATION NUMBER: 60/532,373
; PRIOR FILING DATE: 2003-12-23
; NUMBER OF SEQ ID NOS: 361
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 20
; LENGTH: 153
; TYPE: PRT
; ORGANISM: human papilloma virus (HPV)
US-11-021-949-20

Query Match      78.4%; Score 40; DB 6; Length 153;
Best Local Similarity 85.7%; Pred. No. 88;
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY      3 LECYCK 9
      |::|||
Db      31 LQCYCK 37

RESULT 33
US-10-425-115-297879
; Sequence 297879, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants
```

```
; FILE REFERENCE: 38-21(53222)B
; CURRENT APPLICATION NUMBER: US/10/425,115
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 297879
; LENGTH: 455
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: MFT4577_34738C.1.pdp
US-10-425-115-297879

Query Match      78.4%; Score 40; DB 4; Length 455;
Best Local Similarity 85.7%; Pred. No. 2,3e+02;
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY      2 ILECYCK 8
      |::|||
Db      12 LLECYCK 18

RESULT 34
US-10-476-570-25
; Sequence 25, Application US/10476570
; Publication No. US20040170644A1
; GENERAL INFORMATION:
; APPLICANT: COMMISSARIAT A L'ENERGIE ATOMIQUE
; APPLICANT: INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE
; APPLICANT: MATLERS, Bernard
; APPLICANT: BOURGAULT-VILLADA, Isabelle
; APPLICANT: POUVELLE-MORATILLE, Sandra
; APPLICANT: GUILLET, Jean-Gerard
; TITLE OF INVENTION: Mixture of peptides derived from B6 and/or E7
; TITLE OF INVENTION: papillomavirus proteins and uses thereof
; FILE REFERENCE: 45636-5071-US
; CURRENT APPLICATION NUMBER: US/10/476,570
; CURRENT FILING DATE: 2003-11-04
; PRIOR APPLICATION NUMBER: PCT/FR02/01533
; PRIOR FILING DATE: 2002-05-03
; PRIOR APPLICATION NUMBER: FR 01 05980
; PRIOR FILING DATE: 2001-05-04
; NUMBER OF SEQ ID NOS: 63
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 25
; LENGTH: 15
; TYPE: PRT
; ORGANISM: artificial sequence
; FEATURE:
; OTHER INFORMATION: Description of the artificial sequence: peptide B6 36-50
US-10-476-570-25

Query Match      76.5%; Score 39; DB 4; Length 15;
Best Local Similarity 100.0%; Pred. No. 16;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      4 ECVYCK 9
      |::|||
Db      1 ECVYCK 6

RESULT 35
US-10-424-599-251182
; Sequence 251182, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
```

```
/ CURRENT FILING DATE: 2003-04-28
/ NUMBER OF SEQ ID NOS: 285684
/ SEQ ID NO 251182
/ LENGTH: 89
/ TYPE: PRT
/ ORGANISM: Glycine max
/ FEATURE:
/ OTHER INFORMATION: Clone ID: PAT_MRT3847_68846C.1.pep
US-10-424-599-251182

Query Match          76.5%; Score 39; DB 4; Length 89;
Best Local Similarity 66.7%; Pred. No. 78;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY      1 IILECVYCK 9
       :|:|:|:|:|
Db      29 LILACVYCK 37

RESULT 36
US-10-369-493-13518
/ Sequence 13518, Application US/10369493
/ Publication NO. US20030233675A1
/ GENERAL INFORMATION:
/ APPLICANT: Cao, Yongwei
/ APPLICANT: Hinkle, Gregory J.
/ APPLICANT: Slater, Steven C.
/ APPLICANT: Goldman, Barry S.
/ APPLICANT: Chen, Xianfeng
/ TITLE OF INVENTION: EXPRESSION OF MICROBIAL PROTEINS IN PLANTS FOR PRODUCTION OF
/ TITLE OF INVENTION: PLANTS WITH IMPROVED PROPERTIES
/ FILE REFERENCE: 38-10(52052)B
/ CURRENT FILING DATE: 2003-02-28
/ PRIOR APPLICATION NUMBER: US 60/360,039
/ PRIOR FILING DATE: 2002-02-21
/ NUMBER OF SEQ ID NOS: 47374
/ SEQ ID NO 13518
/ LENGTH: 149
/ TYPE: PRT
/ ORGANISM: Thermoplasma volcanium
US-10-369-493-13518

Query Match          76.5%; Score 39; DB 4; Length 149;
Best Local Similarity 55.6%; Pred. No. 1.2e+02;
Matches 5; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY      1 IILECVYCK 9
       :|:|:|:|:|
Db      132 LVLRCVYCK 140

RESULT 37
US-10-425-115-318856
/ Sequence 318856, Application US/10425115
/ Publication NO. US20040214272A1
/ GENERAL INFORMATION:
/ APPLICANT: La Rosa, Thomas J.
/ APPLICANT: Kovalic, David K.
/ APPLICANT: Zhou, Yihua
/ APPLICANT: Cao, Yongwei
/ TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
/ TITLE OF INVENTION: Plants
/ FILE REFERENCE: 38-21(53222)B
/ CURRENT APPLICATION NUMBER: US/10/425,115
/ CURRENT FILING DATE: 2003-04-28
/ NUMBER OF SEQ ID NOS: 369326
/ SEQ ID NO 318856
/ LENGTH: 69
/ TYPE: PRT
/ ORGANISM: Zea mays
/ FEATURE:
/ OTHER INFORMATION: Clone ID: MRT4577_53870C.1.pep
```

```
US-10-425-115-318856

Query Match          74.5%; Score 38; DB 4; Length 69;
Best Local Similarity 71.4%; Pred. No. 90;
Matches 5; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY      2 IILECVYCK 8
       :|:|:|:|:|
Db      9 VVECVYCK 15

RESULT 38
US-10-767-701-56715
/ Sequence 56715, Application US/10767701
/ Publication NO. US20040172684A1
/ GENERAL INFORMATION:
/ APPLICANT: Kovalic, David K.
/ APPLICANT: Zhou, Yihua
/ APPLICANT: Cao, Yongwei
/ TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
/ TITLE OF INVENTION: Plants and Uses Thereof For Plant Improvement
/ FILE REFERENCE: 38-21(53535)B
/ CURRENT APPLICATION NUMBER: US/10/767,701
/ CURRENT FILING DATE: 2004-01-29
/ NUMBER OF SEQ ID NOS: 63128
/ SEQ ID NO 56715
/ LENGTH: 98
/ TYPE: PRT
/ ORGANISM: Sorghum bicolor
/ FEATURE:
/ OTHER INFORMATION: Clone ID: 30947712.pep
US-10-767-701-56715

Query Match          74.5%; Score 38; DB 4; Length 98;
Best Local Similarity 71.4%; Pred. No. 1.2e+02;
Matches 5; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY      2 IILECVYCK 8
       :|:|:|:|:|
Db      9 VVECVYCK 15

RESULT 39
US-10-369-493-11069
/ Sequence 11069, Application US/10369493
/ Publication NO. US20030233675A1
/ GENERAL INFORMATION:
/ APPLICANT: Cao, Yongwei
/ APPLICANT: Hinkle, Gregory J.
/ APPLICANT: Slater, Steven C.
/ APPLICANT: Goldman, Barry S.
/ APPLICANT: Chen, Xianfeng
/ TITLE OF INVENTION: EXPRESSION OF MICROBIAL PROTEINS IN PLANTS FOR PRODUCTION OF
/ TITLE OF INVENTION: PLANTS WITH IMPROVED PROPERTIES
/ FILE REFERENCE: 38-10(52052)B
/ CURRENT APPLICATION NUMBER: US/10/369,493
/ CURRENT FILING DATE: 2003-02-28
/ PRIOR APPLICATION NUMBER: US 60/360,039
/ PRIOR FILING DATE: 2002-02-21
/ NUMBER OF SEQ ID NOS: 47374
/ SEQ ID NO 11069
/ LENGTH: 147
/ TYPE: PRT
/ ORGANISM: Ferriplasma acidarmanus
US-10-369-493-11069

Query Match          74.5%; Score 38; DB 4; Length 147;
Best Local Similarity 55.6%; Pred. No. 1.8e+02;
Matches 5; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY      1 IILECVYCK 9
       :|:|:|:|:|
Db      127 LILKCVYCK 135
```

```
RESULT 40
US-11-021-949-18
; Sequence 18, Application US/11021949
; Publication No. US20050142541A1
; GENERAL INFORMATION:
; APPLICANT: LU, PETER
; APPLICANT: GARMAN, JONATHAN DAVID
; APPLICANT: BELMARES, MICHAEL P.
; APPLICANT: DIAZ-SARMIENTO, CHAMORRO SOMOZA
; APPLICANT: SCHEWEIZER, JOHANNES
; TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
; TITLE OF INVENTION: AND METHODS OF THEIR USE
; FILE REFERENCE: VITA-012
; CURRENT APPLICATION NUMBER: US/11/021,949
; CURRENT FILING DATE: 2004-12-23
; PRIOR APPLICATION NUMBER: 60/532,373
; PRIOR FILING DATE: 2003-12-23
; NUMBER OF SEQ ID NOS: 361
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 18
; LENGTH: 149
; TYPE: PRT
; ORGANISM: human papilloma virus (HPV)
US-11-021-949-18

Query Match      74.5%; Score 38; DB 6; Length 149;
Best Local Similarity 85.7%; Pred. No. 1.8e+02;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      3 LECYCK 9
Db      28 LNCYCK 34

RESULT 41
US-11-021-949-22
; Sequence 22, Application US/11021949
; Publication No. US20050142541A1
; GENERAL INFORMATION:
; APPLICANT: LU, PETER
; APPLICANT: GARMAN, JONATHAN DAVID
; APPLICANT: BELMARES, MICHAEL P.
; APPLICANT: DIAZ-SARMIENTO, CHAMORRO SOMOZA
; APPLICANT: SCHEWEIZER, JOHANNES
; TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
; TITLE OF INVENTION: AND METHODS OF THEIR USE
; FILE REFERENCE: VITA-012
; CURRENT APPLICATION NUMBER: US/11/021,949
; CURRENT FILING DATE: 2004-12-23
; PRIOR APPLICATION NUMBER: 60/532,373
; PRIOR FILING DATE: 2003-12-23
; NUMBER OF SEQ ID NOS: 361
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 22
; LENGTH: 155
; TYPE: PRT
; ORGANISM: human papilloma virus (HPV)
US-11-021-949-22

Query Match      74.5%; Score 38; DB 6; Length 155;
Best Local Similarity 85.7%; Pred. No. 1.8e+02;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      3 LECYCK 9
Db      31 LNCYCK 37

RESULT 42
US-11-021-949-23
; Sequence 23, Application US/11021949
```

```
; Publication No. US20050142541A1
; GENERAL INFORMATION:
; APPLICANT: LU, PETER
; APPLICANT: GARMAN, JONATHAN DAVID
; APPLICANT: BELMARES, MICHAEL P.
; APPLICANT: DIAZ-SARMIENTO, CHAMORRO SOMOZA
; APPLICANT: SCHEWEIZER, JOHANNES
; TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
; TITLE OF INVENTION: AND METHODS OF THEIR USE
; FILE REFERENCE: VITA-012
; CURRENT APPLICATION NUMBER: US/11/021,949
; CURRENT FILING DATE: 2004-12-23
; PRIOR APPLICATION NUMBER: 60/532,373
; PRIOR FILING DATE: 2003-12-23
; NUMBER OF SEQ ID NOS: 361
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 23
; LENGTH: 155
; TYPE: PRT
; ORGANISM: human papilloma virus (HPV)
US-11-021-949-23

Query Match      74.5%; Score 38; DB 6; Length 155;
Best Local Similarity 85.7%; Pred. No. 1.8e+02;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      3 LECYCK 9
Db      31 LNCYCK 37

RESULT 43
US-09-811-284-212
; Sequence 212, Application US/09811284
; Patent No. US20020058306A1
; GENERAL INFORMATION:
; APPLICANT: Vogel, Gabriel
; TITLE OF INVENTION: No. US20020058306A1 G Protein-Coupled Receptors
; FILE REFERENCE: 00167US1
; CURRENT APPLICATION NUMBER: US/09/811,284
; CURRENT FILING DATE: 2001-03-16
; PRIOR APPLICATION NUMBER: 60/189,783
; PRIOR FILING DATE: 2000-03-16
; PRIOR APPLICATION NUMBER: 60/189,907
; PRIOR FILING DATE: 2000-03-16
; PRIOR APPLICATION NUMBER: 60/189,918
; PRIOR FILING DATE: 2000-03-16
; PRIOR APPLICATION NUMBER: 60/189,960
; PRIOR FILING DATE: 2000-03-16
; PRIOR APPLICATION NUMBER: 60/189,917
; PRIOR FILING DATE: 2000-03-16
; PRIOR APPLICATION NUMBER: 60/192,945
; PRIOR FILING DATE: 2000-03-29
; PRIOR APPLICATION NUMBER: 60/192,916
; PRIOR FILING DATE: 2000-03-29
; PRIOR APPLICATION NUMBER: 60/192,923
; PRIOR FILING DATE: 2000-03-29
; PRIOR APPLICATION NUMBER: 60/192,933
; PRIOR FILING DATE: 2000-03-29
; PRIOR APPLICATION NUMBER: 60/192,830
; PRIOR FILING DATE: 2000-03-29
; PRIOR APPLICATION NUMBER: 60/192,234
; PRIOR FILING DATE: 2000-03-27
; PRIOR APPLICATION NUMBER: 60/192,155
; PRIOR FILING DATE: 2000-03-24
; PRIOR APPLICATION NUMBER: 60/192,935
; PRIOR FILING DATE: 2000-03-29
; NUMBER OF SEQ ID NOS: 258
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 212
; LENGTH: 225
; TYPE: PRT
; ORGANISM: Homo sapiens
```

US-09-811-284-212

Query Match 74.5%; Score 38; DB 3; Length 225;
Best Local Similarity 50.0%; Pred. No. 2.6e+02;
Matches 4; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY 1 IILECVYC 8
:::|::|
DB 209 VLQCLYC 216

RESULT 44
US-10-282-122A-60799
; Sequence 60799, Application US/10282122A
; Publication No. US20040029129A1
; GENERAL INFORMATION:

APPLICANT: Wang, Liangshu
APPLICANT: Zamudio, Carlos
APPLICANT: Malone, Cheryl
APPLICANT: Haselebeck, Robert
APPLICANT: Ohlsen, Kari
APPLICANT: Zykind, Judith
APPLICANT: Wall, Daniel
APPLICANT: Trawick, John
APPLICANT: Carr, Grant
APPLICANT: Yamamoto, Robert
APPLICANT: Forsyth, R.
APPLICANT: Xu, H.
TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
FILE REFERENCE: ELITRA.034A
CURRENT FILING DATE: 2003-02-20
PRIOR FILING DATE: 2000-03-21
PRIOR APPLICATION NUMBER: 60/191,078
PRIOR FILING DATE: 2000-03-21
PRIOR APPLICATION NUMBER: 60/206,848
PRIOR FILING DATE: 2000-05-23
PRIOR APPLICATION NUMBER: 60/207,727
PRIOR FILING DATE: 2000-05-26
PRIOR APPLICATION NUMBER: 60/230,335
PRIOR FILING DATE: 2000-09-06
PRIOR APPLICATION NUMBER: 60/230,347
PRIOR FILING DATE: 2000-09-09
PRIOR APPLICATION NUMBER: 60/242,578
PRIOR FILING DATE: 2000-10-23
PRIOR APPLICATION NUMBER: 60/253,625
PRIOR FILING DATE: 2000-11-27
PRIOR APPLICATION NUMBER: 60/257,931
PRIOR FILING DATE: 2000-12-22
PRIOR APPLICATION NUMBER: 60/267,636
PRIOR FILING DATE: 2001-02-09
PRIOR APPLICATION NUMBER: 60/269,308
PRIOR FILING DATE: 2001-02-16
Remaining Prior Application data removed - See file wrapper or PALM.
NUMBER OF SEQ ID NOS: 78614
SOFTWARE: PatentIn version 3.1
SEQ ID NO 60799
LENGTH: 343
TYPE: PRT
ORGANISM: Listeria monocytogenes
US-10-282-122A-60799

Query Match 74.5%; Score 38; DB 4; Length 343;
Best Local Similarity 83.3%; Pred. No. 3.7e+02;
Matches 5; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 4 ECVYCK 9
|::|::|
DB 94 ECIYCK 99

RESULT 45
US-10-424-599-250479
; Sequence 250479, Application US/10424599

Publication No. US20040031072A1

GENERAL INFORMATION:
APPLICANT: La Rosa Thomas J
APPLICANT: Kovall David K
APPLICANT: Zhou Yihua
APPLICANT: Cao Yongwei
TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated with
TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
FILE REFERENCE: 38-21(53223)B
CURRENT FILING DATE: 2003-04-28
NUMBER OF SEQ ID NOS: 285684
SEQ ID NO 250479
LENGTH: 82
TYPE: PRT
ORGANISM: Glycine max
FEATURE:
NAME/KEY: unsure
LOCATION: (1)...(82)
OTHER INFORMATION: unsure at all Xaa locations
FEATURE:
OTHER INFORMATION: Clone ID: PAT_MKT3847_68210C.1.pep
US-10-424-599-250479

Query Match 72.5%; Score 37; DB 4; Length 82;
Best Local Similarity 71.4%; Pred. No. 1.5e+02;
Matches 5; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 2 ILECVYC 8
:::|::|
DB 9 LVECVYC 15

RESULT 46
US-11-021-949-359
; Sequence 359, Application US/11021949
; Publication No. US20050142541A1
; GENERAL INFORMATION:
APPLICANT: LU, PETER
APPLICANT: GARMAN, JONATHAN DAVID
APPLICANT: BELMARES, MICHAEL P.
APPLICANT: DIAZ-SARMIENTO, CHAMORRO SOMOZA
APPLICANT: SCHWEIZER, JOHANNES
TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
TITLE OF INVENTION: AND METHODS OF THEIR USE
FILE REFERENCE: VITA-012
CURRENT FILING DATE: 2004-12-23
PRIOR FILING DATE: 2003-12-23
PRIOR APPLICATION NUMBER: 60/532,373
PRIOR FILING DATE: 2003-12-23
NUMBER OF SEQ ID NOS: 361
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 359
LENGTH: 148
TYPE: PRT
ORGANISM: human papilloma virus (HPV)
US-11-021-949-359

Query Match 72.5%; Score 37; DB 6; Length 148;
Best Local Similarity 66.7%; Pred. No. 2.5e+02;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 IILECVYC 9
|::|::|
DB 27 IELDCVYC 35

RESULT 47
US-11-021-949-27
; Sequence 27, Application US/11021949
; Publication No. US20050142541A1
; GENERAL INFORMATION:
APPLICANT: LU, PETER

```

; APPLICANT: GARMAN, JONATHAN DAVID
; APPLICANT: BELMARES, MICHAEL P.
; APPLICANT: DIAZ-SARMIENTO, CHAMORRO SOMOZA
; APPLICANT: SCHWEIZER, JOHANNES
; TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
; FILE REFERENCE: VITA-012
; CURRENT APPLICATION NUMBER: US/11/021,949
; PRIOR FILING DATE: 2004-12-23
; PRIOR APPLICATION NUMBER: 60/532,373
; NUMBER OF SEQ ID NOS: 361
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 27
; LENGTH: 150
; TYPE: PRT
; ORGANISM: human papilloma virus (HPV)
US-11-021-949-27
```

```
Query Match          72.5%; Score 37; DB 6; Length 150;
Best Local Similarity 71.4%; Pred. No. 2.6e+02;
Matches 5; Conservative 2; Mismatches 0; Indels 0; Gaps 0;
```

```
OY      3 LECYCYCK 9
        ::|||||
Db      28 VQCYCYCK 34
```

```

RESULT 48
US-10-369-493-18168
; Sequence 18168, Application US/10369493
; Publication No. US20030233675A1
; GENERAL INFORMATION:
; APPLICANT: Cao, Yongwei
; APPLICANT: Hinkle, Gregory J.
; APPLICANT: Slater, Steven C.
; APPLICANT: Goldman, Barry S.
; APPLICANT: Chen, Xianfeng
; TITLE OF INVENTION: EXPRESSION OF MICROBIAL PROTEINS IN PLANTS FOR PRODUCTION OF
; FILE REFERENCE: 38-10(52052)B
; CURRENT APPLICATION NUMBER: US/10/369,493
; CURRENT FILING DATE: 2003-02-28
; PRIOR APPLICATION NUMBER: US 60/360,039
; PRIOR FILING DATE: 2002-02-21
; NUMBER OF SEQ ID NOS: 47374
; SEQ ID NO 18168
; LENGTH: 151
; TYPE: PRT
; ORGANISM: Thermoplasma acidophilum
US-10-369-493-18168
```

```
Query Match          72.5%; Score 37; DB 4; Length 151;
Best Local Similarity 44.4%; Pred. No. 2.6e+02;
Matches 4; Conservative 4; Mismatches 1; Indels 0; Gaps 0;
```

```
OY      1 TIECYCYCK 9
        ::|||||
Db      133 LVIRCYCYCK 141
```

```

RESULT 49
US-11-021-949-26
; Sequence 26, Application US/11021949
; Publication No. US20050142541A1
; GENERAL INFORMATION:
; APPLICANT: LU, PETER
; APPLICANT: GARMAN, JONATHAN DAVID
; APPLICANT: BELMARES, MICHAEL P.
; APPLICANT: DIAZ-SARMIENTO, CHAMORRO SOMOZA
; APPLICANT: SCHWEIZER, JOHANNES
; TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
; TITLE OF INVENTION: AND METHODS OF THEIR USE
```

```

; FILE REFERENCE: VITA-012
; CURRENT APPLICATION NUMBER: US/11/021,949
; PRIOR FILING DATE: 2004-12-23
; PRIOR APPLICATION NUMBER: 60/532,373
; NUMBER OF SEQ ID NOS: 361
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 26
; LENGTH: 151
; TYPE: PRT
; ORGANISM: human papilloma virus (HPV)
US-11-021-949-26
```

```
Query Match          72.5%; Score 37; DB 6; Length 151;
Best Local Similarity 71.4%; Pred. No. 2.6e+02;
Matches 5; Conservative 2; Mismatches 0; Indels 0; Gaps 0;
```

```
OY      3 LECYCYCK 9
        ::|||||
Db      28 VQCYCYCK 34
```

```

RESULT 50
US-11-021-949-31
; Sequence 31, Application US/11021949
; Publication No. US20050142541A1
; GENERAL INFORMATION:
; APPLICANT: LU, PETER
; APPLICANT: GARMAN, JONATHAN DAVID
; APPLICANT: BELMARES, MICHAEL P.
; APPLICANT: DIAZ-SARMIENTO, CHAMORRO SOMOZA
; APPLICANT: SCHWEIZER, JOHANNES
; TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
; FILE REFERENCE: VITA-012
; CURRENT APPLICATION NUMBER: US/11/021,949
; CURRENT FILING DATE: 2004-12-23
; PRIOR APPLICATION NUMBER: 60/532,373
; PRIOR FILING DATE: 2003-12-23
; NUMBER OF SEQ ID NOS: 361
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 31
; LENGTH: 162
; TYPE: PRT
; ORGANISM: human papilloma virus (HPV)
US-11-021-949-31
```

```
Query Match          72.5%; Score 37; DB 6; Length 162;
Best Local Similarity 44.4%; Pred. No. 2.8e+02;
Matches 4; Conservative 4; Mismatches 1; Indels 0; Gaps 0;
```

```
OY      1 TIECYCYCK 9
        ::|||||
Db      32 VTIDCYCYCK 40
```

```

Search completed: May 5, 2006, 08:06:42
Job time : 67 secs
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OM protein - protein search, using bw model

Run on: May 5, 2006, 07:56:56 ; Search time 8.4 Seconds
(without alignments)
49.591 Million cell updates/sec

Title: US-08-170-344-41
Perfect score: 51
Sequence: 1 IILECYCK 9

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 235405 seqs, 46284737 residues

Total number of hits satisfying chosen parameters: 235405

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 1000 summaries

Database :

Published Applications AA_New:*
1: /SIDS/ptodata/1/pubppaa/US08_NEW_PUB.pep1:*
2: /SIDS/ptodata/1/pubppaa/US06_NEW_PUB.pep:*
3: /SIDS/ptodata/1/pubppaa/US07_NEW_PUB.pep:*
4: /SIDS/ptodata/1/pubppaa/US08_NEW_PUB.pep:*
5: /SIDS/ptodata/1/pubppaa/PCT_NEW_PUB.pep:*
6: /SIDS/ptodata/1/pubppaa/US05_NEW_PUB.pep1:*
7: /SIDS/ptodata/1/pubppaa/US09_NEW_PUB.pep1:*
8: /SIDS/ptodata/1/pubppaa/US10_NEW_PUB.pep1:*
9: /SIDS/ptodata/1/pubppaa/US11_NEW_PUB.pep1:*
10: /SIDS/ptodata/1/pubppaa/US11_NEW_PUB.pep1:*
11: /SIDS/ptodata/1/pubppaa/US60_NEW_PUB.pep1:*
12: /SIDS/ptodata/1/pubppaa/US60_NEW_PUB.pep1:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	51	100.0	151	9	US-10-530-253-13
2	51	100.0	158	11	US-11-206-118-3
3	51	100.0	248	9	US-10-530-253-1
4	51	100.0	248	9	US-10-530-253-3
5	51	100.0	248	9	US-10-530-253-5
6	51	100.0	248	9	US-10-530-253-7
7	51	100.0	248	9	US-10-530-253-9
8	51	100.0	248	9	US-10-530-253-11
9	51	100.0	256	11	US-11-192-923A-2
10	41	80.4	149	9	US-10-530-253-18
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23	37	72.5	158	9	US-10-530-253-26	Sequence 26, App1
24	36	70.6	15	9	US-10-530-061-1659	Sequence 1659, Ap
25	36	70.6	158	9	US-10-530-253-15	Sequence 15, App1
26	36	70.6	158	9	US-10-530-253-20	Sequence 20, App1
27	35	68.6	9	9	US-10-530-061-621	Sequence 621, App
28	35	68.6	10	9	US-10-530-061-560	Sequence 560, App
29	35	68.6	104	11	US-11-284-905-14	Sequence 14, App1
30	35	68.6	150	11	US-11-096-568A-9659	Sequence 9659, Ap
31	35	68.6	152	9	US-10-530-253-39	Sequence 39, App1
32	35	68.6	158	9	US-10-530-253-19	Sequence 19, App1
33	35	68.6	176	11	US-11-096-568A-9697	Sequence 9697, Ap
34	35	68.6	178	11	US-11-096-568A-11957	Sequence 11957, A
35	35	68.6	349	11	US-11-087-099-11218	Sequence 11218, A
36	34	66.7	10	9	US-10-530-061-162	Sequence 562, App
37	34	66.7	15	9	US-10-530-061-1692	Sequence 1692, Ap
38	34	66.7	122	11	US-11-079-463-5531	Sequence 5531, Ap
39	34	66.7	151	9	US-10-530-253-21	Sequence 21, App1
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41	34	66.7	350	11	US-11-087-099-2497	Sequence 2497, Ap
42	34	66.7	350	11	US-11-087-099-11952	Sequence 11952, A
43	34	66.7	350	11	US-11-045-004-2267	Sequence 2267, Ap
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45	34	66.7	401	9	US-10-948-053-2	Sequence 2308, Ap
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51	33	64.7	148	9	US-10-530-253-35	Sequence 342, App
52	33	64.7	160	9	US-10-530-253-22	Sequence 2207, Ap
53	33	64.7	234	9	US-10-491-468-32	Sequence 602, App
54	33	64.7	333	11	US-11-045-004-342	Sequence 615, Ap
55	33	64.7	348	11	US-11-087-099-2207	Sequence 690, Ap
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66	32	62.7	251	9	US-11-072-512-3921	Sequence 5907, Ap
67	32	62.7	254	11	US-11-072-512-3921	Sequence 2978, Ap
68	32	62.7	284	11	US-11-087-099-430	Sequence 10074, A
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76	32	62.7	439	11	US-11-000-463-114	Sequence 314, App
77	32	62.7	463	9	US-10-467-657-4282	Sequence 222, App
78	32	62.7	499	9	US-10-467-657-4282	Sequence 2173, Ap
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86	31	60.8	149	9	US-10-530-253-24	Sequence 324, App
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105	31	60.8	361	9	US-10-137-873A-252	Sequence 252, App
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117	31	60.8	401	11	US-11-231-963-1	Sequence 1, Appl1
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131	31	60.8	585	11	US-11-188-298-3861	Sequence 3861, Ap
132	31	60.8	611	11	US-11-010-874-1	Sequence 1, Appl1
133	31	60.8	812	11	US-11-108-459-6	Sequence 6, Appl1
134	31	60.8	919	9	US-10-821-234-1144	Sequence 1144, Ap
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142	30	58.8	14	11	US-11-116-144-215	Sequence 215, App
143	30	58.8	14	11	US-11-116-144-215	Sequence 215, App
144	30	58.8	14	11	US-11-129-741-284	Sequence 284, App
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147	30	58.8	14	11	US-11-220-372-214	Sequence 214, App
148	30	58.8	14	11	US-11-220-372-215	Sequence 215, App
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153	30	58.8	86	7	US-09-978-360A-476	Sequence 476, App
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156	30	58.8	118	11	US-11-190-465A-3	Sequence 3, Appl1
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161	30	58.8	118	11	US-11-190-465A-62	Sequence 62, Appl
162	30	58.8	118	11	US-11-190-465A-63	Sequence 63, Appl
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164	30	58.8	118	11	US-11-190-465A-65	Sequence 65, Appl
165	30	58.8	124	11	US-11-264-096-1487	Sequence 1487, Ap
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172	30	58.8	140	11	US-11-079-463-9603	Sequence 9603, Ap
173	30	58.8	143	11	US-11-196-618-23	Sequence 23, Appl
174	30	58.8	158	11	US-11-087-099-7882	Sequence 7882, Ap
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181	30	58.8	197	11	US-11-087-099-1498	Sequence 1498, App
182	30	58.8	197	11	US-11-087-099-2599	Sequence 2599, App
183	30	58.8	197	11	US-11-087-099-2970	Sequence 2970, App
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185	30	58.8	197	11	US-11-087-099-3824	Sequence 3824, App
186	30	58.8	197	11	US-11-087-099-4056	Sequence 4056, App
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189	30	58.8	197	11	US-11-087-099-6230	Sequence 6230, App
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191	30	58.8	197	11	US-11-087-099-7877	Sequence 7877, App
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197	30	58.8	198	11	US-11-087-099-6914	Sequence 6914, App
198	30	58.8	207	11	US-11-096-568A-7518	Sequence 7518, App
199	30	58.8	231	11	US-11-087-099-1389	Sequence 1389, App
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203	30	58.8	293	11	US-11-087-099-6600	Sequence 6600, App
204	30	58.8	293	11	US-11-087-099-7676	Sequence 7676, App
205	30	58.8	293	11	US-11-087-099-8025	Sequence 8025, App
206	30	58.8	293	11	US-11-087-099-10289	Sequence 10289, A
207	30	58.8	305	11	US-11-096-568A-7516	Sequence 7516, App
208	30	58.8	306	11	US-11-087-099-11735	Sequence 11735, A
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210	30	58.8	310	9	US-10-485-517-409	Sequence 409, App
211	30	58.8	315	11	US-11-096-568A-29880	Sequence 29880, A
212	30	58.8	317	9	US-10-131-826A-524	Sequence 524, App
213	30	58.8	317	9	US-10-063-703-116	Sequence 116, App
214	30	58.8	317	9	US-10-973-115B-524	Sequence 524, App
215	30	58.8	317	9	US-10-137-873A-524	Sequence 524, App
216	30	58.8	317	9	US-10-152-370-524	Sequence 524, App
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219	30	58.8	317	11	US-11-196-618-4	Sequence 4, Appl1
220	30	58.8	317	11	US-11-196-618-6	Sequence 6, Appl1
221	30	58.8	317	11	US-11-205-225-2	Sequence 2, Appl1
222	30	58.8	317	11	US-11-103-195-116	Sequence 116, App
223	30	58.8	317	11	US-11-290-153-524	Sequence 524, App
224	30	58.8	324	11	US-11-196-618-16	Sequence 16, Appl
225	30	58.8	324	11	US-11-196-618-18	Sequence 18, Appl
226	30	58.8	333	11	US-11-087-099-4294	Sequence 4294, App
227	30	58.8	339	11	US-11-188-298-2603	Sequence 2603, App
228	30	58.8	341	11	US-11-096-568A-2493	Sequence 2493, App
229	30	58.8	346	11	US-11-079-463-7730	Sequence 7730, App
230	30	58.8	346	11	US-11-096-568A-28083	Sequence 28083, A
231	30	58.8	351	11	US-11-096-568A-28082	Sequence 28082, A
232	30	58.8	352	11	US-11-087-099-4106	Sequence 4106, App
233	30	58.8	364	9	US-10-467-657-4106	Sequence 4106, App
234	30	58.8	364	11	US-11-096-568A-2492	Sequence 2492, App
235	30	58.8	365	11	US-11-096-568A-2491	Sequence 2491, App
236	30	58.8	377	11	US-11-087-099-8160	Sequence 8160, App
237	30	58.8	378	11	US-11-188-298-17787	Sequence 17787, A
238	30	58.8	379	11	US-11-087-099-3338	Sequence 3338, App
239	30	58.8	379	11	US-11-033-030-39	Sequence 39, Appl
240	30	58.8	380	11	US-11-087-099-4525	Sequence 4525, App

241	30	58.8	380	11	US-11-087-099-4810	Sequence 4810, Ap	314	29	56.9	209	11	US-11-152-366-36	Sequence 36, Appl
242	30	58.8	380	11	US-11-188-298-4190	Sequence 4190, Ap	315	29	56.9	210	9	US-10-986-501-115	Sequence 115, App
243	30	58.8	380	11	US-11-188-298-4411	Sequence 4411, Ap	316	29	56.9	212	11	US-11-000-463-429	Sequence 429, App
244	30	58.8	395	9	US-10-506-454-794	Sequence 794, Appl	317	29	56.9	212	11	US-11-000-463-901	Sequence 901, App
245	30	58.8	399	11	US-11-077-386-18	Sequence 18, Appl	318	29	56.9	212	11	US-11-044-111-6	Sequence 6, Appl1
246	30	58.8	415	11	US-11-182-946-6	Sequence 6, Appl1	319	29	56.9	212	11	US-11-044-111-26	Sequence 26, Appl1
247	30	58.8	428	11	US-11-096-568A-11011	Sequence 11011, A	320	29	56.9	213	11	US-11-087-099-7298	Sequence 7298, Ap
248	30	58.8	432	11	US-11-264-096-2238	Sequence 2238, Ap	321	29	56.9	215	9	US-10-374-954-9	Sequence 9, Appl1
249	30	58.8	432	11	US-11-264-096-2239	Sequence 2239, Ap	322	29	56.9	221	11	US-11-188-298-11333	Sequence 11333, A
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252	30	58.8	439	11	US-11-079-463-5318	Sequence 5318, Ap	325	29	56.9	233	11	US-11-098-686-11102	Sequence 11102, A
253	30	58.8	441	11	US-11-096-568A-11010	Sequence 11010, A	326	29	56.9	235	9	US-10-853-807A-41	Sequence 41, Appl1
254	30	58.8	444	11	US-11-072-512-2354	Sequence 2354, Ap	327	29	56.9	237	9	US-10-506-454-1231	Sequence 1231, Ap
255	30	58.8	450	11	US-11-077-386-20	Sequence 20, Appl	328	29	56.9	237	11	US-11-044-111-11	Sequence 11, Appl
256	30	58.8	451	11	US-11-188-298-13702	Sequence 13702, A	329	29	56.9	237	11	US-11-044-111-12	Sequence 12, Appl
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258	30	58.8	477	11	US-11-096-568A-11009	Sequence 11009, A	331	29	56.9	237	11	US-11-188-298-16928	Sequence 16928, A
259	30	58.8	485	11	US-11-188-298-20925	Sequence 20925, A	332	29	56.9	239	11	US-11-044-111-25	Sequence 25, Appl1
260	30	58.8	504	11	US-11-079-463-7955	Sequence 7955, Ap	333	29	56.9	239	11	US-11-044-111-9	Sequence 9, Appl1
261	30	58.8	537	11	US-11-188-298-21893	Sequence 21893, A	334	29	56.9	240	11	US-11-087-099-7936	Sequence 7936, Ap
262	30	58.8	543	11	US-11-096-568A-9178	Sequence 9178, Ap	335	29	56.9	246	11	US-11-096-568A-30002	Sequence 30002, A
263	30	58.8	566	11	US-11-079-463-7770	Sequence 7770, Ap	336	29	56.9	248	9	US-11-188-298-12892	Sequence 12892, A
264	30	58.8	569	11	US-11-188-298-494	Sequence 494, App	337	29	56.9	248	9	US-10-506-454-1191	Sequence 1191, Ap
265	30	58.8	588	9	US-10-763-712A-95	Sequence 95, Appl	338	29	56.9	249	11	US-11-087-099-2018	Sequence 2018, Ap
266	30	58.8	616	11	US-11-188-298-20963	Sequence 20963, A	339	29	56.9	249	11	US-11-264-096-335	Sequence 335, App
267	30	58.8	667	11	US-11-206-416-13	Sequence 13, Appl1	340	29	56.9	252	9	US-10-506-454-818	Sequence 818, App
268	30	58.8	813	11	US-11-188-298-10909	Sequence 10909, A	341	29	56.9	254	11	US-11-087-099-1661	Sequence 1661, Ap
269	30	58.8	1034	11	US-11-072-512-2343	Sequence 2343, Ap	342	29	56.9	254	11	US-11-087-099-6293	Sequence 6293, Ap
270	30	58.8	1077	11	US-11-072-512-8291	Sequence 2291, A	343	29	56.9	254	11	US-11-087-099-7936	Sequence 7936, Ap
271	30	58.8	1724	11	US-11-096-568A-32051	Sequence 32051, A	344	29	56.9	257	11	US-11-096-568A-5877	Sequence 5877, Ap
272	30	58.8	1730	11	US-11-096-568A-32050	Sequence 32050, A	345	29	56.9	260	11	US-11-087-099-6009	Sequence 6009, Ap
273	30	58.8	1757	11	US-11-096-568A-32049	Sequence 32049, A	346	29	56.9	270	11	US-11-087-099-9342	Sequence 9342, Ap
274	30	58.8	2107	9	US-10-995-561-827	Sequence 827, App	347	29	56.9	284	11	US-11-079-463-8470	Sequence 8470, Ap
275	30	58.8	2180	9	US-10-995-561-825	Sequence 825, App	348	29	56.9	305	9	US-10-506-454-55	Sequence 55, Appl1
276	30	58.8	2480	9	US-10-995-561-826	Sequence 826, App	349	29	56.9	319	11	US-11-087-099-8640	Sequence 8640, Ap
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278	30	58.8	4443	11	US-11-129-741-3478	Sequence 3478, Ap	351	29	56.9	329	11	US-11-087-099-3676	Sequence 3676, Ap
279	30	58.8	4473	11	US-11-129-741-460	Sequence 460, App	352	29	56.9	331	11	US-11-045-094-1965	Sequence 1965, Ap
280	29.5	57.8	349	11	US-11-087-099-1673	Sequence 1673, App	353	29	56.9	335	11	US-11-087-099-10727	Sequence 10727, A
281	29.5	57.8	349	11	US-11-087-099-3545	Sequence 3545, Ap	354	29	56.9	336	11	US-11-087-099-12277	Sequence 12277, A
282	29.5	57.8	349	11	US-11-087-099-7966	Sequence 7966, Ap	355	29	56.9	342	11	US-11-096-568A-30002	Sequence 30002, A
283	29.5	57.8	351	11	US-11-087-099-2242	Sequence 2242, Ap	356	29	56.9	347	11	US-11-188-298-5520	Sequence 5520, Ap
284	29.5	57.8	351	11	US-11-087-099-8245	Sequence 8245, Ap	357	29	56.9	348	11	US-11-188-298-3865	Sequence 3865, Ap
285	29	56.9	51	9	US-10-530-061-480	Sequence 480, App	358	29	56.9	351	11	US-11-096-568A-20024	Sequence 20024, A
286	29	56.9	10	9	US-10-530-061-556	Sequence 556, App	359	29	56.9	352	11	US-11-087-099-1834	Sequence 1834, Ap
287	29	56.9	15	9	US-10-530-061-1680	Sequence 1680, Ap	360	29	56.9	352	11	US-11-087-099-2937	Sequence 2937, Ap
288	29	56.9	15	9	US-10-530-061-1681	Sequence 1681, Ap	361	29	56.9	355	11	US-11-096-568A-20023	Sequence 20023, A
289	29	56.9	15	9	US-10-530-061-1700	Sequence 1700, Ap	362	29	56.9	355	11	US-11-096-568A-20023	Sequence 20023, A
290	29	56.9	15	9	US-10-530-061-1701	Sequence 1701, Ap	363	29	56.9	361	11	US-11-188-298-21462	Sequence 21462, A
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292	29	56.9	51	11	US-11-079-463-8255	Sequence 2349, Ap	365	29	56.9	368	9	US-10-195-883-338	Sequence 338, App
293	29	56.9	88	11	US-11-188-298-2349	Sequence 2349, Ap	366	29	56.9	368	9	US-10-195-883-338	Sequence 338, App
294	29	56.9	116	11	US-11-072-512-3301	Sequence 3301, Ap	367	29	56.9	371	11	US-11-087-099-3953	Sequence 3953, Ap
295	29	56.9	117	9	US-10-467-657-2296	Sequence 2296, Ap	368	29	56.9	372	11	US-11-087-099-3309	Sequence 3309, Ap
296	29	56.9	124	9	US-10-219-061-28	Sequence 28, Appl	369	29	56.9	376	11	US-11-087-099-3638	Sequence 3638, Ap
297	29	56.9	124	9	US-10-219-061-28	Sequence 28, Appl	370	29	56.9	376	11	US-11-169-041-175	Sequence 3451, Ap
298	29	56.9	124	9	US-10-219-062-28	Sequence 28, Appl	371	29	56.9	376	11	US-11-087-099-5451	Sequence 22, Appl1
299	29	56.9	124	9	US-10-219-064-28	Sequence 28, Appl	372	29	56.9	376	11	US-11-288-493-22	Sequence 22, Appl1
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301	29	56.9	128	11	US-11-096-568A-25363	Sequence 25363, A	374	29	56.9	378	11	US-11-087-099-6691	Sequence 6691, Ap
302	29	56.9	150	9	US-10-506-454-323	Sequence 323, App	375	29	56.9	380	11	US-11-087-099-6430	Sequence 6430, Ap
303	29	56.9	153	11	US-11-087-099-11624	Sequence 11624, A	376	29	56.9	380	11	US-11-087-099-10142	Sequence 10142, A
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305	29	56.9	184	11	US-11-084-591-5	Sequence 5, Appl1	378	29	56.9	382	11	US-11-087-099-1007	Sequence 1007, Ap
306	29	56.9	184	11	US-11-264-096-347	Sequence 347, App	379	29	56.9	382	11	US-11-087-099-11538	Sequence 11538, A
307	29	56.9	184	11	US-11-264-096-2250	Sequence 2250, Ap	380	29	56.9	386	11	US-11-079-463-5776	Sequence 5776, Ap
308	29	56.9	188	11	US-11-096-568A-25362	Sequence 25362, A	381	29	56.9	387	11	US-11-087-099-11405	Sequence 11405, Ap
309	29	56.9	190	11	US-11-188-298-21664	Sequence 21664, A	382	29	56.9	393	11	US-11-087-099-861	Sequence 861, App
310	29	56.9	193	11	US-11-087-099-4862	Sequence 4862, Ap	383	29	56.9	394	11	US-11-087-099-861	Sequence 10449, A
311	29	56.9	200	11	US-11-096-568A-5879	Sequence 5879, Ap	384	29	56.9	416	11	US-11-098-666-10449	Sequence 18, Appl1
312	29	56.9	201	11	US-11-079-463-6349	Sequence 6349, Ap	385	29	56.9	417	9	US-11-195-851-18	Sequence 474, App
313	29	56.9	208	11	US-11-096-568A-5878	Sequence 5878, Ap	386	29	56.9	417	9	US-10-194-487-474	Sequence 474, App

387	29	56.9	417	9	US-10-195-883-474	Sequence 474, App	460	28	54.9	56	11	US-11-223-699A-19	Sequence 19, App1
388	29	56.9	417	9	US-10-195-888-474	Sequence 474, App	461	28	54.9	56	11	US-11-121-566A-19	Sequence 19, App1
389	29	56.9	417	9	US-10-195-889-474	Sequence 474, App	462	28	54.9	62	11	US-10-506-454-63	Sequence 63, App1
390	29	56.9	417	9	US-10-218-784-220	Sequence 220, App	463	28	54.9	62	11	US-11-096-568A-13768	Sequence 13768, A
391	29	56.9	417	9	US-10-219-061-220	Sequence 220, App	464	28	54.9	82	9	US-10-467-657-4230	Sequence 4230, App
392	29	56.9	417	9	US-10-219-062-220	Sequence 220, App	465	28	54.9	86	9	US-10-475-075-175	Sequence 175, App
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394	29	56.9	417	9	US-10-233-134-220	Sequence 220, App	467	28	54.9	93	11	US-11-188-298-17895	Sequence 17895, A
395	29	56.9	417	11	US-11-195-851-16	Sequence 16, App1	468	28	54.9	97	11	US-11-054-281-299	Sequence 299, App
396	29	56.9	420	11	US-11-072-512-3885	Sequence 3885, App	469	28	54.9	109	9	US-10-511-538-192	Sequence 192, App
397	29	56.9	422	11	US-11-156-084-40	Sequence 40, App1	470	28	54.9	118	9	US-10-467-657-8112	Sequence 8112, App
398	29	56.9	423	11	US-11-195-851-2	Sequence 2, App1	471	28	54.9	118	11	US-11-090-439-3	Sequence 3, App1
399	29	56.9	423	11	US-11-195-851-4	Sequence 4, App1	472	28	54.9	118	11	US-11-033-039-531	Sequence 531, App
400	29	56.9	423	11	US-11-195-851-6	Sequence 6, App1	473	28	54.9	118	11	US-11-155-288-2	Sequence 2, App1
401	29	56.9	424	11	US-11-096-568A-17960	Sequence 17960, A	474	28	54.9	120	11	US-11-264-096-1747	Sequence 1747, App
402	29	56.9	427	11	US-11-096-568A-12910	Sequence 12910, A	475	28	54.9	120	11	US-11-264-096-1749	Sequence 1749, App
403	29	56.9	429	11	US-11-096-568A-17959	Sequence 17959, A	476	28	54.9	128	11	US-11-096-568A-29324	Sequence 29324, A
404	29	56.9	430	11	US-11-096-568A-17958	Sequence 17958, A	477	28	54.9	135	9	US-10-523-362-32	Sequence 32, App1
405	29	56.9	435	11	US-11-096-568A-12909	Sequence 12909, A	478	28	54.9	139	11	US-11-052-554A-278	Sequence 278, App
406	29	56.9	435	11	US-11-172-740-788	Sequence 788, App	479	28	54.9	143	9	US-10-523-362-4	Sequence 4, App1
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410	29	56.9	447	11	US-11-096-568A-12908	Sequence 12908, A	483	28	54.9	157	9	US-10-506-454-1206	Sequence 1206, App
411	29	56.9	453	11	US-11-172-740-790	Sequence 10401, A	484	28	54.9	160	9	US-10-467-657-4072	Sequence 4072, App
412	29	56.9	453	11	US-11-087-099-3798	Sequence 790, App	485	28	54.9	170	11	US-11-096-568A-29966	Sequence 29966, A
413	29	56.9	456	11	US-11-087-099-6259	Sequence 6259, App	486	28	54.9	177	11	US-11-096-568A-2767	Sequence 2767, App
414	29	56.9	456	11	US-11-087-099-6259	Sequence 6259, App	487	28	54.9	177	11	US-11-096-568A-19788	Sequence 19788, A
415	29	56.9	456	11	US-11-087-099-9642	Sequence 9642, App	488	28	54.9	178	11	US-11-096-568A-33956	Sequence 33956, App
416	29	56.9	456	11	US-11-188-298-14550	Sequence 14550, A	489	28	54.9	179	11	US-11-096-568A-34204	Sequence 34204, A
417	29	56.9	456	11	US-11-188-298-1958	Sequence 1958, A	490	28	54.9	190	11	US-11-096-568A-2766	Sequence 2766, App
418	29	56.9	457	11	US-11-087-099-5321	Sequence 5321, App	491	28	54.9	190	11	US-11-172-740-1663	Sequence 1663, App
419	29	56.9	457	11	US-11-087-099-5761	Sequence 5761, App	492	28	54.9	190	11	US-11-188-298-19656	Sequence 19656, A
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421	29	56.9	457	11	US-11-087-099-10468	Sequence 10468, A	494	28	54.9	195	11	US-11-096-568A-15289	Sequence 15289, A
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423	29	56.9	457	11	US-11-188-298-8460	Sequence 8460, App	496	28	54.9	198	11	US-11-087-099-2328	Sequence 2328, App
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426	29	56.9	457	11	US-11-188-298-16236	Sequence 16236, A	499	28	54.9	198	11	US-11-087-099-4664	Sequence 4664, App
427	29	56.9	457	11	US-11-188-298-20671	Sequence 20671, A	500	28	54.9	198	11	US-11-087-099-4775	Sequence 4775, App
428	29	56.9	459	11	US-11-156-084-247	Sequence 247, App	501	28	54.9	198	11	US-11-087-099-5762	Sequence 5762, App
429	29	56.9	459	11	US-11-098-686-11317	Sequence 11317, A	502	28	54.9	198	11	US-11-087-099-6006	Sequence 6006, App
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434	29	56.9	465	11	US-11-188-298-1940	Sequence 1940, App	507	28	54.9	198	11	US-11-087-099-9148	Sequence 9148, App
435	29	56.9	466	11	US-11-156-084-42	Sequence 42, App1	508	28	54.9	198	11	US-11-087-099-10102	Sequence 10102, A
436	29	56.9	466	11	US-11-087-099-8259	Sequence 8259, App	509	28	54.9	198	11	US-11-087-099-11046	Sequence 11046, A
437	29	56.9	466	11	US-11-188-298-18632	Sequence 18632, A	510	28	54.9	198	11	US-11-087-099-11171	Sequence 11171, A
438	29	56.9	475	11	US-11-087-099-3359	Sequence 3359, App	511	28	54.9	198	11	US-11-087-099-12371	Sequence 12371, A
439	29	56.9	476	11	US-11-079-463-9043	Sequence 9043, App	512	28	54.9	199	11	US-11-096-568A-33045	Sequence 33045, A
440	29	56.9	496	9	US-10-508-263-94	Sequence 94, App1	513	28	54.9	211	11	US-11-172-740-2502	Sequence 2502, App
441	29	56.9	510	11	US-11-079-463-9001	Sequence 9001, App	514	28	54.9	213	11	US-11-072-512-2579	Sequence 2579, App
442	29	56.9	555	11	US-11-096-568A-24787	Sequence 24787, A	515	28	54.9	213	11	US-11-072-512-2999	Sequence 2999, App
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444	29	56.9	568	11	US-11-049-348-5	Sequence 5, App1	517	28	54.9	220	11	US-11-096-568A-34203	Sequence 34203, A
445	29	56.9	574	11	US-11-024-959-408	Sequence 408, App	518	28	54.9	222	9	US-10-793-626-1510	Sequence 1510, App
446	29	56.9	602	9	US-10-467-657-4056	Sequence 4056, App	519	28	54.9	231	11	US-11-087-099-7610	Sequence 7610, App
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448	29	56.9	668	9	US-10-506-454-799	Sequence 799, App	521	28	54.9	235	11	US-11-045-004-1559	Sequence 1559, App
449	29	56.9	704	9	US-11-096-568A-24786	Sequence 24786, A	522	28	54.9	239	11	US-11-096-568A-15288	Sequence 15288, A
450	29	56.9	719	9	US-10-467-657-762	Sequence 762, App	523	28	54.9	248	11	US-11-096-568A-3355	Sequence 3355, App
451	29	56.9	745	11	US-11-096-568A-24785	Sequence 24785, A	524	28	54.9	248	11	US-11-096-568A-19786	Sequence 19786, A
452	29	56.9	861	11	US-11-087-099-1595	Sequence 1595, App	525	28	54.9	249	11	US-11-096-568A-34202	Sequence 34202, A
453	29	56.9	1056	11	US-11-044-011-22	Sequence 22, App1	526	28	54.9	250	11	US-11-087-099-9977	Sequence 9977, App
454	28	54.9	9	9	US-10-530-061-629	Sequence 629, App1	527	28	54.9	253	11	US-11-015-546A-2	Sequence 2, App1
455	28	54.9	29	11	US-11-196-670-50	Sequence 50, App1	528	28	54.9	255	9	US-10-821-234-973	Sequence 973, App
456	28	54.9	29	11	US-11-196-670-51	Sequence 51, App1	529	28	54.9	269	11	US-11-015-546A-10	Sequence 10, App1
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459	28	54.9	49	11	US-11-045-004-2323	Sequence 2323, App	532	28	54.9	288	11	US-11-199-544-67	Sequence 67, App1

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534	28	54.9	290	11	US-11-096-568A-15287	Sequence 15287, A	607	28	54.9	426	9	US-10-973-115B-218	Sequence 218, App
535	28	54.9	295	11	US-11-192-374-4	Sequence 4, Appl1	608	28	54.9	426	9	US-10-137-873A-218	Sequence 218, App
536	28	54.9	295	11	US-11-192-374-24	Sequence 24, Appl	609	28	54.9	426	9	US-10-152-370-218	Sequence 218, App
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540	28	54.9	305	11	US-11-087-099-1701	Sequence 1701, Ap	613	28	54.9	426	11	US-11-096-568A-20865	Sequence 20865, A
541	28	54.9	305	11	US-11-087-099-1715	Sequence 1715, Ap	614	28	54.9	426	11	US-11-096-568A-2553	Sequence 2553, Ap
542	28	54.9	305	11	US-11-087-099-3166	Sequence 3166, Ap	615	28	54.9	426	11	US-11-124-368A-261	Sequence 261, App
543	28	54.9	305	11	US-11-087-099-3436	Sequence 3436, Ap	616	28	54.9	426	11	US-11-188-298-21079	Sequence 21079, A
544	28	54.9	305	11	US-11-087-099-3658	Sequence 3658, Ap	617	28	54.9	426	11	US-11-096-568A-30946	Sequence 30946, A
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547	28	54.9	305	11	US-11-087-099-5708	Sequence 5946, Ap	620	28	54.9	426	11	US-11-096-568A-2552	Sequence 2552, Ap
548	28	54.9	305	11	US-11-087-099-5946	Sequence 5983, Ap	621	28	54.9	426	11	US-11-188-298-20770	Sequence 20770, A
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551	28	54.9	305	11	US-11-087-099-6198	Sequence 6414, Ap	624	28	54.9	426	11	US-11-072-512-3826	Sequence 3826, Ap
552	28	54.9	305	11	US-11-087-099-6414	Sequence 6414, Ap	625	28	54.9	426	11	US-11-183-136-44	Sequence 44, Appl
553	28	54.9	305	11	US-11-087-099-6451	Sequence 8106, Ap	626	28	54.9	426	9	US-10-330-773-866	Sequence 866, App
554	28	54.9	305	11	US-11-087-099-8106	Sequence 8321, Ap	627	28	54.9	426	9	US-10-194-487-86	Sequence 96, Appl
555	28	54.9	305	11	US-11-087-099-8321	Sequence 8339, Ap	628	28	54.9	426	9	US-10-194-487-86	Sequence 96, Appl
556	28	54.9	305	11	US-11-087-099-8339	Sequence 8569, Ap	629	28	54.9	426	9	US-10-195-888-96	Sequence 96, Appl
557	28	54.9	305	11	US-11-087-099-8569	Sequence 8813, Ap	630	28	54.9	426	9	US-10-195-888-96	Sequence 96, Appl
558	28	54.9	305	11	US-11-087-099-8813	Sequence 8844, Ap	631	28	54.9	426	9	US-10-195-888-96	Sequence 96, Appl
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569	28	54.9	331	9	US-10-973-115B-184	Sequence 184, App	642	28	54.9	426	9	US-10-793-626-198	Sequence 1289, App
570	28	54.9	331	9	US-10-137-873A-184	Sequence 184, App	643	28	54.9	426	11	US-11-188-298-12823	Sequence 12823, A
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572	28	54.9	331	11	US-11-290-153-184	Sequence 184, App	645	28	54.9	426	11	US-11-096-568A-29369	Sequence 10793, A
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574	28	54.9	335	8	US-10-511-937-2469	Sequence 2469, Ap	647	28	54.9	426	9	US-10-784-004-458	Sequence 958, App
575	28	54.9	335	9	US-10-218-784-170	Sequence 170, App	648	28	54.9	426	9	US-10-784-004-458	Sequence 958, App
576	28	54.9	335	9	US-10-219-061-170	Sequence 170, App	649	28	54.9	426	11	US-11-079-463-5493	Sequence 5493, Ap
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585	28	54.9	348	11	US-11-096-568A-20866	Sequence 20866, A	658	28	54.9	426	11	US-11-077-550-143	Sequence 143, App
586	28	54.9	348	11	US-11-188-298-16252	Sequence 16252, A	659	28	54.9	426	11	US-11-124-367A-329	Sequence 329, App
587	28	54.9	349	11	US-11-188-298-705	Sequence 705, App	660	28	54.9	426	11	US-11-077-550-147	Sequence 328, App
588	28	54.9	349	11	US-11-188-298-15259	Sequence 15259, A	661	28	54.9	426	11	US-11-124-367A-328	Sequence 328, App
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592	28	54.9	379	11	US-11-087-099-7523	Sequence 7523, Ap	665	28	54.9	426	9	US-10-501-035-361	Sequence 361, App
593	28	54.9	380	11	US-11-072-512-3651	Sequence 3651, Ap	666	28	54.9	426	9	US-10-501-035-361	Sequence 361, App
594	28	54.9	380	11	US-11-087-099-5234	Sequence 5234, Ap	667	28	54.9	426	9	US-10-501-035-229	Sequence 229, App
595	28	54.9	380	11	US-11-087-099-6028	Sequence 6028, Ap	668	28	54.9	426	11	US-10-922-232B-59	Sequence 2506, Ap
596	28	54.9	380	11	US-11-087-099-6673	Sequence 6673, Ap	669	28	54.9	426	11	US-10-195-888-440	Sequence 440, App
597	28	54.9	385	11	US-11-079-463-9077	Sequence 9077, Ap	670	28	54.9	426	11	US-10-195-888-440	Sequence 440, App
598	28	54.9	388	11	US-11-188-298-19057	Sequence 19057, A	671	28	54.9	426	11	US-10-195-888-440	Sequence 440, App
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602	28	54.9	419	11	US-11-169-041-224	Sequence 224, App	675	28	54.9	426	11	US-10-877-346-7	Sequence 11, Appl1
603	28	54.9	422	8	US-10-505-928-418	Sequence 418, App	676	28	54.9	426	11	US-11-077-550-141	Sequence 141, App
604	28	54.9	423	8	US-10-505-928-418	Sequence 2554, App	677	28	54.9	426	10	US-11-106-014-92	Sequence 92, Appl
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681	28	54.9	1518	11	US-11-124-367A-406	Sequence 406, App	754	27	52.9	182	11	US-11-174-121-4	Sequence 4, Appl1
682	28	54.9	1532	11	US-11-124-367A-403	Sequence 403, App	755	27	52.9	182	11	US-11-174-121-5	Sequence 5, Appl1
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684	28	54.9	1532	11	US-11-124-367A-405	Sequence 405, App	757	27	52.9	185	11	US-11-087-099-5912	Sequence 5912, Ap
685	28	54.9	1532	11	US-11-124-367A-407	Sequence 407, App	758	27	52.9	186	11	US-11-087-099-9239	Sequence 9239, Ap
686	28	54.9	1535	11	US-11-124-367A-408	Sequence 408, App	759	27	52.9	189	11	US-11-188-298-4040	Sequence 4040, Ap
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690	28	54.9	1863	11	US-11-126-022-9	Sequence 9, Appl1	763	27	52.9	197	11	US-11-087-099-2027	Sequence 2027, Ap
691	28	54.9	1863	11	US-11-126-022-10	Sequence 10, Appl	764	27	52.9	197	11	US-11-087-099-5520	Sequence 5520, Ap
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694	28	54.9	1863	11	US-11-126-022-13	Sequence 13, Appl	767	27	52.9	202	9	US-10-467-657-8154	Sequence 8154, Ap
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697	28	54.9	1863	11	US-11-126-022-16	Sequence 16, Appl	770	27	52.9	205	11	US-11-087-099-8281	Sequence 8281, Ap
698	28	54.9	1863	11	US-11-126-022-17	Sequence 17, Appl	771	27	52.9	207	9	US-10-506-454-230	Sequence 230, App
699	28	54.9	1863	11	US-11-126-022-18	Sequence 18, Appl	772	27	52.9	210	11	US-11-087-099-3743	Sequence 3743, Ap
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707	27.5	53.9	23	11	US-11-004-399-493	Sequence 493, App	780	27	52.9	214	11	US-11-087-099-1239	Sequence 1239, Ap
708	27.5	53.9	23	11	US-11-004-399-3748	Sequence 3748, App	781	27	52.9	214	11	US-11-087-099-1356	Sequence 1356, Ap
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714	27	52.9	10	9	US-10-530-061-543	Sequence 543, App	787	27	52.9	214	11	US-11-087-099-3069	Sequence 3069, Ap
715	27	52.9	21	11	US-11-129-741-3928	Sequence 3928, Ap	788	27	52.9	214	11	US-11-087-099-3619	Sequence 3619, Ap
716	27	52.9	45	11	US-11-234-225-11	Sequence 11, Appl	789	27	52.9	214	11	US-11-087-099-3751	Sequence 3751, Ap
717	27	52.9	45	11	US-11-234-225-12	Sequence 12, Appl	790	27	52.9	214	11	US-11-087-099-4157	Sequence 4157, Ap
718	27	52.9	45	11	US-11-234-308-11	Sequence 11, Appl	791	27	52.9	214	11	US-11-087-099-4382	Sequence 4382, Ap
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721	27	52.9	59	7	US-09-978-360A-462	Sequence 462, App	794	27	52.9	214	11	US-11-087-099-5004	Sequence 5004, Ap
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723	27	52.9	68	11	US-11-096-568A-8329	Sequence 8329, Ap	796	27	52.9	214	11	US-11-087-099-5233	Sequence 5233, Ap
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726	27	52.9	80	9	US-10-137-873A-84	Sequence 84, Appl	799	27	52.9	214	11	US-11-087-099-6816	Sequence 6816, Ap
727	27	52.9	80	9	US-10-152-370-84	Sequence 84, Appl	800	27	52.9	214	11	US-11-087-099-7374	Sequence 7374, Ap
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732	27	52.9	94	11	US-11-096-568A-5110	Sequence 5110, Ap	805	27	52.9	214	11	US-11-087-099-8554	Sequence 8554, Ap
733	27	52.9	100	9	US-11-072-512-2997	Sequence 2997, Ap	806	27	52.9	214	11	US-11-087-099-8806	Sequence 8806, Ap
734	27	52.9	103	9	US-10-506-454-1526	Sequence 1526, App	807	27	52.9	214	11	US-11-087-099-9195	Sequence 9195, Ap
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736	27	52.9	105	11	US-11-264-096-232	Sequence 232, App	809	27	52.9	214	11	US-11-087-099-9499	Sequence 9499, App
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749	27	52.9	175	11	US-11-087-099-6466	Sequence 6466, App	822	27	52.9	218	10	US-11-263-326-129	Sequence 129, App
750	27	52.9	175	11	US-11-172-740-1410	Sequence 1410, App	823	27	52.9	218	10	US-11-263-326-130	Sequence 130, App
751	27	52.9	176	11	US-11-087-099-6226	Sequence 6226, App	824	27	52.9	218	10	US-11-263-326-174	Sequence 174, App

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826	27	52.9	227	11	US-11-188-298-6867	Sequence 6867, Ap	889	27	52.9	312	11	US-11-033-030-36	Sequence 36, Appl
827	27	52.9	227	11	US-11-188-298-13693	Sequence 13693, A	900	27	52.9	312	11	US-11-033-030-37	Sequence 37, Appl
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ALIGNMENTS

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US-10-530-253-13
; Sequence 13, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Casasetti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530, 253
; PRIOR FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415, 929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 13
; LENGTH: 151
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-10-530-253-13

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; GENERAL INFORMATION:
; APPLICANT: Healthbanc Biotech CO. LTD.
; TITLE OF INVENTION: Fusion protein for inhibiting cervical cancer
; FILE REFERENCE: P7819/0613
; CURRENT APPLICATION NUMBER: US/11/206,138
; CURRENT FILING DATE: 2005-08-18
; NUMBER OF SEQ ID NOS: 14
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 3
; LENGTH: 158
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-11-206-138-3

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US-10-530-253-1
; Sequence 1, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Casasetti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530, 253
; PRIOR FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415, 929
; PRIOR FILING DATE: 2002-10-03
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; SEQ ID NO 1
; LENGTH: 248
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-10-530-253-1

Query Match 100.0%; Score 51; DB 9; Length 248;
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US-10-530-253-3
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; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Casasetti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530, 253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415, 929
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;; TYPE: PRT
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US-10-530-253-7
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;; ORGANISM: Human papillomavirus type 16
US-10-530-253-3

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Best Local Similarity 100.0%; Pred. No. 0.13; Indels 0; Gaps 0;
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Db 26 IILECVYCK 34

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US-10-530-253-5
; Sequence 5, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Cassecci, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; PRIOR FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
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US-10-530-253-5

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Best Local Similarity 100.0%; Pred. No. 0.13; Indels 0; Gaps 0;
Matches 9; Conservative 0; Mismatches 0;

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Db 26 IILECVYCK 34

RESULT 6
US-10-530-253-7
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; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Cassecci, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; PRIOR FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 7
; LENGTH: 248

;; TYPE: PRT
;; ORGANISM: Human papillomavirus type 16
US-10-530-253-7

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Matches 9; Conservative 0; Mismatches 0;

QY 1 IILECVYCK 9
Db 123 IILECVYCK 131

RESULT 7
US-10-530-253-9
; Sequence 9, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Cassecci, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; PRIOR FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 9
; LENGTH: 248
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-10-530-253-9

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Best Local Similarity 100.0%; Pred. No. 0.13; Indels 0; Gaps 0;
Matches 9; Conservative 0; Mismatches 0;

QY 1 IILECVYCK 9
Db 123 IILECVYCK 131

RESULT 8
US-10-530-253-11
; Sequence 11, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Cassecci, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; PRIOR FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
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; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 11
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; ORGANISM: Human papillomavirus type 16
US-10-530-253-11

Query Match 100.0%; Score 51; DB 9; Length 248;

Best Local Similarity 100.0%; Pred. No. 0.13; Indels 0; Gaps 0;
Matches 9; Conservative 0; Mismatches 0;

QY 1 IILECVYCK 9
Db 123 IILECVYCK 131

RESULT 9
US-11-192-923A-2
; Sequence 2, Application US/11192923A
; Publication No. US20060018928A1
; GENERAL INFORMATION:
; APPLICANT: PANQ, XIAOMU
; TITLE OF INVENTION: VIRUS-LIKE PARTICLE CONTAINING A DENGUE VIRUS
; FILE REFERENCE: 116620-003
; CURRENT APPLICATION NUMBER: US/11/192, 923A
; PRIOR FILING DATE: 2005-07-29
; PRIOR APPLICATION NUMBER: CN 03115272.4
; PRIOR FILING DATE: 2003-01-30
; PRIOR APPLICATION NUMBER: CN 03115273.2
; NUMBER OF SEQ ID NOS: 45
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US-11-192-923A-2

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Best Local Similarity 100.0%; Pred. No. 0.13; Indels 0; Gaps 0;
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QY 1 IILECVYCK 9
Db 131 IILECVYCK 139

RESULT 10
US-10-530-253-18
; Sequence 18, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Casasetti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530, 253
; PRIOR FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415, 929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 18
; LENGTH: 149
; TYPE: PRT
; ORGANISM: Human papillomavirus type 35
US-10-530-253-18

Query Match 80.4%; Score 41; DB 9; Length 149;
Best Local Similarity 77.8%; Pred. No. 4;
Matches 7; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 IILECVYCK 9
Db 26 IILNCVYCK 34

RESULT 11
US-11-096-568A-12021
; Sequence 12021, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
; APPLICANT: Alexandrov, Nikolai et al.
; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
; FILE REFERENCE: 2750-1592PUS2
; CURRENT APPLICATION NUMBER: US/11/096, 568A
; CURRENT FILING DATE: 2005-04-01
; NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 12021
; LENGTH: 95
; TYPE: PRT
; ORGANISM: Trillium aestivum
; FEATURE:
; NAME/KEY: mlec_feature
; LOCATION: (1)-(95)
; OTHER INFORMATION: Cereas Seq. ID no. 13660325
US-11-096-568A-12021

Query Match 78.4%; Score 40; DB 11; Length 95;
Best Local Similarity 85.7%; Pred. No. 4.1;
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 2 IILECVYCK 8
Db 9 IILECVYCK 15

RESULT 12
US-11-096-568A-12020
; Sequence 12020, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
; APPLICANT: Alexandrov, Nikolai et al.
; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
; FILE REFERENCE: 2750-1592PUS2
; CURRENT APPLICATION NUMBER: US/11/096, 568A
; CURRENT FILING DATE: 2005-04-01
; NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 12020
; LENGTH: 153
; TYPE: PRT
; ORGANISM: Trillium aestivum
; FEATURE:
; NAME/KEY: mlec_feature
; LOCATION: (1)-(153)
; OTHER INFORMATION: Cereas Seq. ID no. 13660324
US-11-096-568A-12020

Query Match 78.4%; Score 40; DB 11; Length 153;
Best Local Similarity 85.7%; Pred. No. 6;
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 2 IILECVYCK 8
Db 67 IILECVYCK 73

RESULT 13
US-10-530-061-493
; Sequence 493, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.033US02/EKS/M-M

;; CURRENT APPLICATION NUMBER: US/10/530,061
;; CURRENT FILING DATE: 2005-04-04
;; PRIOR APPLICATION NUMBER: PCT/US03/31308
;; PRIOR FILING DATE: 2003-10-03
;; PRIOR APPLICATION NUMBER: 60/416,207
;; PRIOR FILING DATE: 2002-10-03
;; PRIOR APPLICATION NUMBER: 60/417,269
;; PRIOR FILING DATE: 2002-10-08
;; NUMBER OF SEQ ID NOS: 2503
;; SOFTWARE: PatentIn version 3.3
;; SEQ ID NO 493
;; LENGTH: 11
;; TYPE: PRT
;; ORGANISM: Human papillomavirus
US-10-530-061-493

Query Match 74.5%; Score 38; DB 9; Length 11;
Best Local Similarity 85.7%; Pred. No. 1.5;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 3 LECVYCK 9
| | | | |
Db 4 LSCVYCK 10

RESULT 14
US-10-530-061-1667
;; Sequence 1667, Application US/10530061
;; Publication No. US20060079453A1
;; GENERAL INFORMATION:
;; APPLICANT: SIDNEY, JOHN
;; APPLICANT: SOUTHWOOD, SCOTT
;; APPLICANT: SETTE, ALESSANDRO
;; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
;; FILE REFERENCE: 2060.033US02/EKS/M-M
;; CURRENT APPLICATION NUMBER: US/10/530,061
;; CURRENT FILING DATE: 2005-04-04
;; PRIOR APPLICATION NUMBER: PCT/US03/31308
;; PRIOR FILING DATE: 2003-10-03
;; PRIOR APPLICATION NUMBER: 60/416,207
;; PRIOR FILING DATE: 2002-10-03
;; PRIOR APPLICATION NUMBER: 60/417,269
;; PRIOR FILING DATE: 2002-10-08
;; NUMBER OF SEQ ID NOS: 2503
;; SOFTWARE: PatentIn version 3.3
;; SEQ ID NO 1667
;; LENGTH: 15
;; TYPE: PRT
;; ORGANISM: Human papillomavirus
US-10-530-061-1667

Query Match 74.5%; Score 38; DB 9; Length 15;
Best Local Similarity 85.7%; Pred. No. 2;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 3 LECVYCK 9
| | | | |
Db 9 LNCVYCK 15

RESULT 15
US-10-530-061-1691
;; Sequence 1691, Application US/10530061
;; Publication No. US20060079453A1
;; GENERAL INFORMATION:
;; APPLICANT: SIDNEY, JOHN
;; APPLICANT: SOUTHWOOD, SCOTT
;; APPLICANT: SETTE, ALESSANDRO
;; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
;; FILE REFERENCE: 2060.033US02/EKS/M-M
;; CURRENT APPLICATION NUMBER: US/10/530,061
;; CURRENT FILING DATE: 2005-04-04
;; PRIOR APPLICATION NUMBER: PCT/US03/31308

;; PRIOR FILING DATE: 2003-10-03
;; PRIOR APPLICATION NUMBER: 60/416,207
;; PRIOR FILING DATE: 2002-10-03
;; PRIOR APPLICATION NUMBER: 60/417,269
;; PRIOR FILING DATE: 2002-10-08
;; NUMBER OF SEQ ID NOS: 2503
;; SOFTWARE: PatentIn version 3.3
;; SEQ ID NO 1691
;; LENGTH: 15
;; TYPE: PRT
;; ORGANISM: Human papillomavirus
US-10-530-061-1691

Query Match 74.5%; Score 38; DB 9; Length 15;
Best Local Similarity 85.7%; Pred. No. 2;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 3 LECVYCK 9
| | | | |
Db 9 LSCVYCK 15

RESULT 16
US-10-530-253-16
;; Sequence 16, Application US/10530253
;; Publication No. US20060014926A1
;; GENERAL INFORMATION:
;; APPLICANT: Cassetti, Maria C.
;; APPLICANT: Smith, Larry
;; APPLICANT: Jeffrey K. Pullen
;; APPLICANT: Susan P. McElhinney
;; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;; FILE REFERENCE: 00630/100M137-US2
;; CURRENT APPLICATION NUMBER: US/10/530,253
;; CURRENT FILING DATE: 2005-04-04
;; PRIOR APPLICATION NUMBER: PCT/US2003/031726
;; PRIOR FILING DATE: 2003-10-02
;; PRIOR APPLICATION NUMBER: US 60/415,929
;; PRIOR FILING DATE: 2002-10-03
;; NUMBER OF SEQ ID NOS: 65
;; SOFTWARE: PatentIn version 3.1
;; SEQ ID NO 16
;; LENGTH: 149
;; TYPE: PRT
;; ORGANISM: Human papillomavirus type 31
US-10-530-253-16

Query Match 74.5%; Score 38; DB 9; Length 149;
Best Local Similarity 85.7%; Pred. No. 13;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 3 LECVYCK 9
| | | | |
Db 28 LNCVYCK 34

RESULT 17
US-10-530-253-23
;; Sequence 23, Application US/10530253
;; Publication No. US20060014926A1
;; GENERAL INFORMATION:
;; APPLICANT: Cassetti, Maria C.
;; APPLICANT: Smith, Larry
;; APPLICANT: Jeffrey K. Pullen
;; APPLICANT: Susan P. McElhinney
;; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;; FILE REFERENCE: 00630/100M137-US2
;; CURRENT APPLICATION NUMBER: US/10/530,253
;; CURRENT FILING DATE: 2005-04-04
;; PRIOR APPLICATION NUMBER: PCT/US2003/031726
;; PRIOR FILING DATE: 2003-10-02
;; PRIOR APPLICATION NUMBER: US 60/415,929
;; PRIOR FILING DATE: 2002-10-03

```
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: Patentin version 3.1
; SEQ ID NO 23
; LENGTH: 155
; TYPE: PRT
; ORGANISM: Human papillomavirus type 56
US-10-530-253-23
```

```
Query Match      74.5%; Score 38; DB 9; Length 155;
Best Local Similarity 85.7%; Pred. No. 13;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

QY 3 LECVYCK 9
|:|:|:|
DB 31 LSCVYCK 37

```
RESULT 18
US-11-087-099-5274
; Sequence 5274, Application US/11087099
; Publication No. US20060041961A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: Genes and Uses for Plant Improvement
; FILE REFERENCE: 38-21(53450)B EP
; CURRENT APPLICATION NUMBER: US/11/087,099
; CURRENT FILING DATE: 2005-03-22
; NUMBER OF SEQ ID NOS: 12464
; SEQ ID NO 5274
; LENGTH: 343
; TYPE: PRT
; ORGANISM: Listeria monocytogenes EGD-e
US-11-087-099-5274
```

```
Query Match      74.5%; Score 38; DB 11; Length 343;
Best Local Similarity 83.3%; Pred. No. 25;
Matches 5; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
```

QY 4 ECVYCK 9
|:|:|:|
DB 94 ECIYCK 99

```
RESULT 19
US-11-087-099-7737
; Sequence 7737, Application US/11087099
; Publication No. US20060041961A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: Genes and Uses for Plant Improvement
; FILE REFERENCE: 38-21(53450)B EP
; CURRENT APPLICATION NUMBER: US/11/087,099
; CURRENT FILING DATE: 2005-03-22
; NUMBER OF SEQ ID NOS: 12464
; SEQ ID NO 7737
; LENGTH: 343
; TYPE: PRT
; ORGANISM: Listeria innocua
US-11-087-099-7737
```

```
Query Match      74.5%; Score 38; DB 11; Length 343;
Best Local Similarity 83.3%; Pred. No. 25;
Matches 5; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
```

QY 4 ECVYCK 9
|:|:|:|
DB 94 ECIYCK 99

```
RESULT 20
US-11-045-004-2215
; Sequence 2215, Application US/11045004
; Publication No. US20060078901A1
```

```
; GENERAL INFORMATION:
; APPLICANT: BUCHRIESSER, CARMEN
; APPLICANT: FRANGEUL, LIONEL
; APPLICANT: COUVE, ELISABETH
; APPLICANT: RUSNIOK, CHRISTOPHER
; APPLICANT: FSIHI, HAFIDA
; APPLICANT: DEHOUX, PIERRE
; APPLICANT: DUSURGET, OLIVIER
; APPLICANT: CHERTOUANI, FARID
; APPLICANT: MEDJARI, HAFED
; APPLICANT: GLASSER, PHILIPPE
; APPLICANT: KUNST, FRANCK
; APPLICANT: COSSART, PASCAL
; APPLICANT: DANIELS, JUSTIN
; APPLICANT: GOEBEL, WERNER
; APPLICANT: KREFT, JURGEN
; APPLICANT: KUHN, MICHAEL
; APPLICANT: NG, EVA
; APPLICANT: VAZQUEZ-BOLAND, ANTONIO
; APPLICANT: DOMINGUEZ-BERNAL, GUSTAVO
; APPLICANT: GARRIDO-GARCIA, PATRICIA
; APPLICANT: TIERREZ-MARTINEZ, ALBERTO
; APPLICANT: AMEND, ALEXANDRA
; APPLICANT: CHAKRABORTY, TRINAD
; APPLICANT: DOMANN, EUGEN
; APPLICANT: HAIN, THORSTEN
; APPLICANT: BERGE, PATRICK
; APPLICANT: CHARBIT, ALAIN
; APPLICANT: DURANT, LIONEL
; APPLICANT: PEREZ-DIAZ, JOSE-CLAUDIO
; APPLICANT: BAQUERO, FERNANDO
; APPLICANT: GARCIA DEL PORTILLO, FRANCISCO
; APPLICANT: GOMEZ-LOPEZ, NURIA
; APPLICANT: MADUENIO, ENCARNIA
; APPLICANT: PABLOS, BETRIZ DE
; APPLICANT: WEHLAND, JURGEN
; APPLICANT: KARST, UWE
; APPLICANT: ENTIAN, KARL-DIETER
; APPLICANT: HAUF, JORG
; APPLICANT: ROSE, MATTHIAS
; APPLICANT: VOSS, HANUT
; TITLE OF INVENTION: LISTERIA MONOCYTOGENES GENOME, POLYPEPTIDES AND USES
; FILE REFERENCE: 05394.0018-02
; CURRENT APPLICATION NUMBER: US/11/045,004
; CURRENT FILING DATE: 2005-01-28
; PRIOR APPLICATION NUMBER: 10/637,657
; PRIOR FILING DATE: 2003-08-11
; PRIOR APPLICATION NUMBER: 10/257,023
; PRIOR FILING DATE: 2002-10-08
; PRIOR APPLICATION NUMBER: PCT/FR01/01118
; PRIOR FILING DATE: 2001-04-11
; PRIOR APPLICATION NUMBER: FR 00/04,629
; PRIOR FILING DATE: 2000-04-11
; NUMBER OF SEQ ID NOS: 2854
; SOFTWARE: Patentin version 3.3
; SEQ ID NO 2215
; LENGTH: 343
; TYPE: PRT
; ORGANISM: Listeria monocytogenes
US-11-045-004-2215
```

```
Query Match      74.5%; Score 38; DB 11; Length 343;
Best Local Similarity 83.3%; Pred. No. 25;
Matches 5; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
```

QY 4 ECVYCK 9
|:|:|:|
DB 94 ECIYCK 99

```
RESULT 21
US-10-530-061-53
; Sequence 53, Application US/10530061
```

```
Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SUTNEY, JOHN
; APPLICANT: SUTNEY, JOHN
; APPLICANT: SUTNEY, JOHN
; APPLICANT: SUTNEY, JOHN
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.033US02/EKS/M-M
; CURRENT FILING DATE: 2005-04-04
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 53
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-53

Query Match          72.5%; Score 37; DB 9; Length 10;
Best Local Similarity 100.0%; Pred. No. 2.1;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 IILECVY 7
Db 4 IILECVY 10

RESULT 22
US-10-530-061-114
; Sequence 114, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SUTNEY, JOHN
; APPLICANT: SUTNEY, JOHN
; APPLICANT: SUTNEY, JOHN
; APPLICANT: SUTNEY, JOHN
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.033US02/EKS/M-M
; CURRENT FILING DATE: 2005-04-04
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 114
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-114

Query Match          72.5%; Score 37; DB 9; Length 10;
Best Local Similarity 100.0%; Pred. No. 2.1;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 IILECVY 7
Db 4 IILECVY 10

RESULT 23
US-10-530-253-26
; Sequence 26, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Cassecci, Maria C.
```

```
APPLICANT: Smith, Larry
APPLICANT: Jeffrey K. Pullen
APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT FILING DATE: 2005-04-04
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 26
; LENGTH: 158
; TYPE: PRT
; ORGANISM: Human papillomavirus type 68
US-10-530-253-26

Query Match          72.5%; Score 37; DB 9; Length 158;
Best Local Similarity 44.4%; Pred. No. 20;
Matches 4; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

QY 1 IILECVYCK 9
Db 28 VTIDCVYCK 36

RESULT 24
US-10-530-061-1659
; Sequence 1659, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SUTNEY, JOHN
; APPLICANT: SUTNEY, JOHN
; APPLICANT: SUTNEY, JOHN
; APPLICANT: SUTNEY, JOHN
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.033US02/EKS/M-M
; CURRENT FILING DATE: 2005-04-04
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1659
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-1659

Query Match          70.6%; Score 36; DB 9; Length 15;
Best Local Similarity 66.7%; Pred. No. 4.2;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 IILECVYCK 9
Db 7 IILECVYCK 15

RESULT 25
US-10-530-253-15
; Sequence 15, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Cassecci, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
```

FILE REFERENCE: 00630/100M137-US2
CURRENT APPLICATION NUMBER: US/10/530,253
CURRENT FILING DATE: 2005-04-04
PRIOR APPLICATION NUMBER: PCT/US2003/031726
PRIOR FILING DATE: 2003-10-02
PRIOR APPLICATION NUMBER: US 60/415,929
PRIOR FILING DATE: 2002-10-03
NUMBER OF SEQ ID NOS: 65
SOFTWARE: PatentIn version 3.1
SEQ ID NO 15
LENGTH: 158
TYPE: PRT
ORGANISM: Human papillomavirus type 18
US-10-530-253-15

Query Match 70.6%; Score 36; DB 9; Length 158;
Best Local Similarity 66.7%; Pred. No. 29;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 IILECYCK 9
: : |||||
Db 28 IETCYCK 36

RESULT 26
US-10-530-253-20
Sequence 20, Application US/10530253
Publication No. US20060014926A1
GENERAL INFORMATION:
APPLICANT: Casasetti, Maria C.
APPLICANT: Smith, Larry
APPLICANT: Jeffrey K. Pullen
APPLICANT: Susan F. McElhinney
TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
FILE REFERENCE: 00630/100M137-US2
CURRENT APPLICATION NUMBER: US/10/530,253
CURRENT FILING DATE: 2005-04-04
PRIOR APPLICATION NUMBER: PCT/US2003/031726
PRIOR FILING DATE: 2003-10-02
PRIOR APPLICATION NUMBER: US 60/415,929
PRIOR FILING DATE: 2002-10-03
NUMBER OF SEQ ID NOS: 65
SOFTWARE: PatentIn version 3.1
SEQ ID NO 20
LENGTH: 158
TYPE: PRT
ORGANISM: Human papillomavirus type 45
US-10-530-253-20

Query Match 70.6%; Score 36; DB 9; Length 158;
Best Local Similarity 55.6%; Pred. No. 29;
Matches 5; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 1 IILECYCK 9
: : |||||
Db 28 VSIACTYCK 36

RESULT 27
US-10-530-061-621
Sequence 621, Application US/10530061
Publication No. US20060079453A1
GENERAL INFORMATION:
APPLICANT: SIDNEY, JOHN
APPLICANT: SOUTHWOOD, SCOTT
APPLICANT: SETTE, ALESSANDRO
TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
FILE REFERENCE: 2060.033US02/EKS/M-M
CURRENT APPLICATION NUMBER: US/10/530,061
CURRENT FILING DATE: 2005-04-04
PRIOR APPLICATION NUMBER: PCT/US03/31308
PRIOR FILING DATE: 2003-10-03
PRIOR APPLICATION NUMBER: 60/416,207

PRIOR FILING DATE: 2002-10-03
PRIOR APPLICATION NUMBER: 60/417,269
PRIOR FILING DATE: 2002-10-08
NUMBER OF SEQ ID NOS: 2503
SOFTWARE: PatentIn version 3.3
SEQ ID NO 621
LENGTH: 9
TYPE: PRT
ORGANISM: Human papillomavirus
US-10-530-061-621

Query Match 68.6%; Score 35; DB 9; Length 9;
Best Local Similarity 71.4%; Pred. No. 1,9e+05;
Matches 5; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 3 LECYCK 9
: : |||||
Db 2 IACYCK 8

RESULT 28
US-10-530-061-560
Sequence 560, Application US/10530061
Publication No. US20060079453A1
GENERAL INFORMATION:
APPLICANT: SIDNEY, JOHN
APPLICANT: SOUTHWOOD, SCOTT
APPLICANT: SETTE, ALESSANDRO
TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
FILE REFERENCE: 2060.033US02/EKS/M-M
CURRENT APPLICATION NUMBER: US/10/530,061
CURRENT FILING DATE: 2005-04-04
PRIOR APPLICATION NUMBER: PCT/US03/31308
PRIOR FILING DATE: 2003-10-03
PRIOR APPLICATION NUMBER: 60/416,207
PRIOR FILING DATE: 2002-10-03
PRIOR APPLICATION NUMBER: 60/417,269
PRIOR FILING DATE: 2002-10-08
NUMBER OF SEQ ID NOS: 2503
SOFTWARE: PatentIn version 3.3
SEQ ID NO 560
LENGTH: 10
TYPE: PRT
ORGANISM: Human papillomavirus
US-10-530-061-560

Query Match 68.6%; Score 35; DB 9; Length 10;
Best Local Similarity 71.4%; Pred. No. 4.4;
Matches 5; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 3 LECYCK 9
: : |||||
Db 4 IACYCK 10

RESULT 29
US-11-284-905-14
Sequence 14, Application US/11284905
Publication No. US20060078992A1
GENERAL INFORMATION:
APPLICANT: MISAWA, ELIS
APPLICANT: YAJIMA, HIROAKI
APPLICANT: KONDO, KEIJI
TITLE OF INVENTION: NOVEL VECTOR FOR ANIMAL CELLS AND USE THEREOF
FILE REFERENCE: 049441-0132
CURRENT APPLICATION NUMBER: US/11/284,905
CURRENT FILING DATE: 2005-11-23
PRIOR APPLICATION NUMBER: US/10/471,009
PRIOR FILING DATE: 2003-09-08
PRIOR APPLICATION NUMBER: PCT/JP02/02201
PRIOR FILING DATE: 2002-03-08
PRIOR APPLICATION NUMBER: JP 2001-066925
PRIOR FILING DATE: 2001-03-09

NUMBER OF SEQ ID NOS: 17
SOFTWARE: Patentin Ver. 3.2
SEQ ID NO 14
LENGTH: 104
TYPE: PRT
ORGANISM: Candida utilis
US-11-284-905-14

Query Match 68.6%; Score 35; DB 11; Length 104;
Best Local Similarity 85.7%; Pred. No. 30;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 3 IILECVYCK 9
| | | | |
Db 70 IECVYCK 76

RESULT 30
US-11-096-568A-9698
Sequence 9698, Application US/11096568A
Publication No. US20060048240A1
GENERAL INFORMATION:
APPLICANT: Alexandrov, Nikolai et al.
TITLE OF INVENTION: Sequence-determined DNA Fragments and Corresponding Polypeptides
FILE REFERENCE: 2750-1592PUS2
CURRENT APPLICATION NUMBER: US/11/096,568A
CURRENT FILING DATE: 2005-04-01
NUMBER OF SEQ ID NOS: 34471
SEQ ID NO 9698
LENGTH: 150
TYPE: PRT
ORGANISM: Triticum aestivum
FEATURE:
NAME/KEY: misc_feature
LOCATION: (1)..(150)
OTHER INFORMATION: Ceres Seq. ID no. 13655857
FEATURE:
NAME/KEY: misc_feature
LOCATION: (142)..(142)
OTHER INFORMATION: Xaa is any aa, unknown or other
US-11-096-568A-9698

Query Match 68.6%; Score 35; DB 11; Length 150;
Best Local Similarity 55.6%; Pred. No. 41;
Matches 5; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 1 IILECVYCK 9
| | | | |
Db 89 VIDACTYCK 97

RESULT 31
US-10-530-253-39
Sequence 39, Application US/10530253
Publication No. US20060014926A1
GENERAL INFORMATION:
APPLICANT: Cassecci, Maria C.
APPLICANT: Smith, Larry
APPLICANT: Jeffrey K. Pullen
APPLICANT: Susan P. McElhinney
TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
FILE REFERENCE: 00630/100M137-US2
CURRENT APPLICATION NUMBER: US/10/530,253
CURRENT FILING DATE: 2005-04-04
PRIOR APPLICATION NUMBER: PCT/US2003/031726
PRIOR FILING DATE: 2003-10-02
PRIOR APPLICATION NUMBER: US 60/415,929
PRIOR FILING DATE: 2002-10-03
NUMBER OF SEQ ID NOS: 65
SOFTWARE: Patentin version 3.1
SEQ ID NO 39
LENGTH: 152

TYPE: PRT
ORGANISM: Human papillomavirus
FEATURE:
NAME/KEY: MISC FEATURE
LOCATION: (1)..(152)
OTHER INFORMATION: where Xaa is any amino acid
US-10-530-253-39

Query Match 68.6%; Score 35; DB 9; Length 152;
Best Local Similarity 66.7%; Pred. No. 41;
Matches 6; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 IILECVYCK 9
| | | | |
Db 28 IXXCVYCK 36

RESULT 32
US-10-530-253-19
Sequence 19, Application US/10530253
Publication No. US20060014926A1
GENERAL INFORMATION:
APPLICANT: Cassecci, Maria C.
APPLICANT: Smith, Larry
APPLICANT: Jeffrey K. Pullen
APPLICANT: Susan P. McElhinney
TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
FILE REFERENCE: 00630/100M137-US2
CURRENT APPLICATION NUMBER: US/10/530,253
CURRENT FILING DATE: 2005-04-04
PRIOR APPLICATION NUMBER: PCT/US2003/031726
PRIOR FILING DATE: 2003-10-02
PRIOR APPLICATION NUMBER: US 60/415,929
PRIOR FILING DATE: 2002-10-03
NUMBER OF SEQ ID NOS: 65
SOFTWARE: Patentin version 3.1
SEQ ID NO 19
LENGTH: 158
TYPE: PRT
ORGANISM: Human papillomavirus type 39
US-10-530-253-19

Query Match 68.6%; Score 35; DB 9; Length 158;
Best Local Similarity 55.6%; Pred. No. 42;
Matches 5; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 1 IILECVYCK 9
| | | | |
Db 28 ITIACYCK 36

RESULT 33
US-11-096-568A-9697
Sequence 9697, Application US/11096568A
Publication No. US20060048240A1
GENERAL INFORMATION:
APPLICANT: Alexandrov, Nikolai et al.
TITLE OF INVENTION: Sequence-determined DNA Fragments and Corresponding Polypeptides
FILE REFERENCE: 2750-1592PUS2
CURRENT APPLICATION NUMBER: US/11/096,568A
CURRENT FILING DATE: 2005-04-01
NUMBER OF SEQ ID NOS: 34471
SEQ ID NO 9697
LENGTH: 176
TYPE: PRT
ORGANISM: Triticum aestivum
FEATURE:
NAME/KEY: misc_feature
LOCATION: (1)..(176)
OTHER INFORMATION: Ceres Seq. ID no. 13655856
FEATURE:
NAME/KEY: misc_feature

```
; LOCATION: (168)..(168)
; OTHER INFORMATION: Xaa is any aa, unknown or other
US-11-096-568A-9697

Query Match
Best Local Similarity 68.6%; Score 35; DB 11; Length 176;
Matches 5; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 1 IILECVYCK 9
Db 115 VIDACIYCK 123

RESULT 34
US-11-096-568A-11957
; Sequence 11957, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
; APPLICANT: Alexandrov, Nikolai et al.
; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
; FILE REFERENCE: 2750-1592PUS2
; CURRENT APPLICATION NUMBER: US/11/096,568A
; CURRENT FILING DATE: 2005-04-01
; NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 11957
; LENGTH: 178
; TYPE: PRT
; ORGANISM: Triticum aestivum
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1)_(178)
; OTHER INFORMATION: Ceres Seq. ID no. 15219972
US-11-096-568A-11957

Query Match
Best Local Similarity 68.6%; Score 35; DB 11; Length 178;
Matches 5; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 4 ECVYCK 9
Db 31 ECVYCK 36

RESULT 35
US-11-087-099-11218
; Sequence 11218, Application US/11087099
; Publication No. US20060041961A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: Genes and Uses for Plant Improvement
; FILE REFERENCE: 38-21(53450)B EP
; CURRENT APPLICATION NUMBER: US/11/087,099
; CURRENT FILING DATE: 2005-03-22
; NUMBER OF SEQ ID NOS: 12464
; SEQ ID NO 11218
; LENGTH: 349
; TYPE: PRT
; ORGANISM: Chenopodium rubrum
US-11-087-099-11218

Query Match
Best Local Similarity 68.6%; Score 35; DB 11; Length 349;
Matches 4; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

QY 1 IILECVYCK 9
Db 25 LFLDCLYCK 33

RESULT 36
US-10-530-061-562
; Sequence 562, Application US/10530061
```

```
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.033US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 562
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-562

Query Match
Best Local Similarity 66.7%; Score 34; DB 9; Length 10;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 5 CVYCK 9
Db 1 CVYCK 5

RESULT 37
US-10-530-061-1692
; Sequence 1692, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.033US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1692
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-1692

Query Match
Best Local Similarity 100.0%; Pred. No. 9.1;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 5 CVYCK 9
Db 2 CVYCK 6

RESULT 38
US-11-079-463-5531
; Sequence 5531, Application US/11079463
; Publication No. US20060073161A1
; GENERAL INFORMATION:
; APPLICANT: Gary L. Breton
```



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; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO BACTERIOIDES FR
; FILE REFERENCE: PATH00-03DI12
; CURRENT APPLICATION NUMBER: US/11/079,463
; PRIOR FILING DATE: 2005-03-14
; PRIOR APPLICATION NUMBER: US 60/128,705
; PRIOR FILING DATE: 1999-04-09
; PRIOR APPLICATION NUMBER: US 09/540,209
; PRIOR FILING DATE: 2000-04-04
; NUMBER OF SEQ ID NOS: 10444
; SEQ ID NO 5531
; LENGTH: 122
; TYPE: PRT
; ORGANISM: B.fragilis
US-11-079-463-5531

```

```

Query Match      66.7%; Score 34; DB 11; Length 122;
Best Local Similarity 100.0%; Pred. No. 50;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

QY      5 CVCCK 9
      |||||
Db      46 CVCCK 50

```

```

RESULT 39
US-10-530-253-21
; Sequence 21, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Casasetti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 21
; LENGTH: 151
; TYPE: PRT
; ORGANISM: Human papillomavirus type 51
US-10-530-253-21

```

```

Query Match      66.7%; Score 34; DB 9; Length 151;
Best Local Similarity 100.0%; Pred. No. 60;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

QY      5 CVCCK 9
      |||||
Db      30 CVCCK 34

```

```

RESULT 40
US-11-087-099-2121
; Sequence 2121, Application US/11087099
; Publication No. US20060041961A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: Genes and Uses for Plant Improvement
; FILE REFERENCE: 38-21(53450)B EP
; CURRENT APPLICATION NUMBER: US/11/087,099
; CURRENT FILING DATE: 2005-03-22
; NUMBER OF SEQ ID NOS: 12464
; SEQ ID NO 2121
; LENGTH: 345
; TYPE: PRT

```

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; ORGANISM: Sulfolobus solfataricus
US-11-087-099-2121

```

```

Query Match      66.7%; Score 34; DB 11; Length 345;
Best Local Similarity 83.3%; Pred. No. 1.2e+02;
Matches 5; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

```

```

QY      4 ECVCCK 9
      |||||
Db      93 ECVCCK 98

```

```

RESULT 41
US-11-087-099-2497
; Sequence 2497, Application US/11087099
; Publication No. US20060041961A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: Genes and Uses for Plant Improvement
; FILE REFERENCE: 38-21(53450)B EP
; CURRENT APPLICATION NUMBER: US/11/087,099
; CURRENT FILING DATE: 2005-03-22
; NUMBER OF SEQ ID NOS: 12464
; SEQ ID NO 2497
; LENGTH: 350
; TYPE: PRT
; ORGANISM: Listeria innocua
US-11-087-099-2497

```

```

Query Match      66.7%; Score 34; DB 11; Length 350;
Best Local Similarity 71.4%; Pred. No. 1.2e+02;
Matches 5; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

```

```

QY      3 LECVCCK 9
      :|||
Db      89 MECVCCK 95

```

```

RESULT 42
US-11-087-099-11952
; Sequence 11952, Application US/11087099
; Publication No. US20060041961A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: Genes and Uses for Plant Improvement
; FILE REFERENCE: 38-21(53450)B EP
; CURRENT APPLICATION NUMBER: US/11/087,099
; CURRENT FILING DATE: 2005-03-22
; NUMBER OF SEQ ID NOS: 12464
; SEQ ID NO 11952
; LENGTH: 350
; TYPE: PRT
; ORGANISM: Listeria monocytogenes EGD-e
US-11-087-099-11952

```

```

Query Match      66.7%; Score 34; DB 11; Length 350;
Best Local Similarity 71.4%; Pred. No. 1.2e+02;
Matches 5; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

```

```

QY      3 LECVCCK 9
      :|||
Db      89 MECVCCK 95

```

```

RESULT 43
US-11-045-004-2267
; Sequence 2267, Application US/11045004
; Publication No. US20060078901A1
; GENERAL INFORMATION:
; APPLICANT: BUCHRIESEN, CARMEN
; APPLICANT: FRANGEUL, LIONEL
; APPLICANT: COUVE, ELISABETH
; APPLICANT: RUSNIOK, CHRISTOPHE

```

```

; APPLICANT: PSIH, HAFIDA
; APPLICANT: DEHOX, PIERRE
; APPLICANT: DUSOURGET, OLIVIER
; APPLICANT: CHETOUANI, FARID
; APPLICANT: NEDJARI, HAFED
; APPLICANT: GLASER, PHILIPPE
; APPLICANT: KUNST, FRANCK
; APPLICANT: COSSART, PASCALE
; APPLICANT: DANIELS, JUSTIN
; APPLICANT: GOEBEL, WERNER
; APPLICANT: KREFT, JURGEN
; APPLICANT: KUHN, MICHAEL
; APPLICANT: NG, EVA
; APPLICANT: VAZQUEZ-BOLAND, ANTONIO
; APPLICANT: DOMINGUEZ-BERNAL, GUSTAVO
; APPLICANT: GARRIDO-GARCIA, PATRICIA
; APPLICANT: TIERREZ-MARTINEZ, ALBERTO
; APPLICANT: AMEND, ALEXANDRA
; APPLICANT: CHAKRABORTY, TRINAD
; APPLICANT: DOMANN, EUGEN
; APPLICANT: HAIN, THORSTEN
; APPLICANT: BERCHE, PATRICK
; APPLICANT: CHARBIT, ALAIN
; APPLICANT: DURANT, LIONEL
; APPLICANT: PEREZ-DIAZ, JOSE-CLAUDIO
; APPLICANT: BAQUERO, FERNANDO
; APPLICANT: GARCIA DEL PORTILLO, FRANCISCO
; APPLICANT: GOMEZ-LOPEZ, NURIA
; APPLICANT: MADUENIO, ENCARNNA
; APPLICANT: PABLOS, BETRIZ DE
; APPLICANT: WEHLAND, JURGEN
; APPLICANT: KARST, UWE
; APPLICANT: ENTIAN, KARL-DIETER
; APPLICANT: HAUP, JORG
; APPLICANT: ROSE, MATTHIAS
; APPLICANT: VOSS, HANUT
; APPLICANT: TITLE OF INVENTION: LISTERIA MONOCYTOGENES GENOME, POLYPEPTIDES AND USBS
; FILE REFERENCE: 05394.0018-02
; CURRENT APPLICATION NUMBER: US/11/045.004
; CURRENT FILING DATE: 2005-01-28
; PRIOR APPLICATION NUMBER: 10/637,657
; PRIOR FILING DATE: 2003-08-11
; PRIOR APPLICATION NUMBER: 10/257,023
; PRIOR FILING DATE: 2002-10-08
; PRIOR APPLICATION NUMBER: PCT/FR01/01118
; PRIOR FILING DATE: 2001-04-11
; PRIOR APPLICATION NUMBER: FR 00/04,629
; PRIOR FILING DATE: 2000-04-11
; NUMBER OF SEQ ID NOS: 2854
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 2267
; LENGTH: 350
; TYPE: PRT
; ORGANISM: Listeria monocytogenes
US-11-045-004-2267

Query Match      66.7%; Score 34; DB 11; Length 350;
Best Local Similarity 71.4%; Pred. No. 1.2e+02;
Matches 5; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY      3 LECVYCK 9
DB      89 MECVYCK 95

RESULT 44
US-10-506-454-307
; Sequence 307, Application US/10506454
; Publication No. US20060068386A1
; GENERAL INFORMATION:
; APPLICANT: Slesarev, Alexi I
; APPLICANT: Mezhevaeva, Katja V
; APPLICANT: Polushin, Nikolai N
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; APPLICANT: Shcherbinina, Olga V
; APPLICANT: Shakhova, Vera V
; APPLICANT: Malych, Andrei G
; APPLICANT: Kozayvkin, Sergei A
; APPLICANT: TITLE OF INVENTION: The Complete Genome and Protein Sequences of the Hyperthermophile
; TITLE OF INVENTION: Methanopyrus Kandleri AV19 and Monophyly of Archaeal Methanogens
; TITLE OF INVENTION: and Methods of Use Thereof
; FILE REFERENCE: FID001
; CURRENT APPLICATION NUMBER: US/10/506,454
; CURRENT FILING DATE: 2004-08-31
; PRIOR APPLICATION NUMBER: PCT/US03/06664
; PRIOR FILING DATE: 2003-03-04
; PRIOR APPLICATION NUMBER: 60/361,742
; PRIOR FILING DATE: 2002-03-04
; NUMBER OF SEQ ID NOS: 1722
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 307
; LENGTH: 357
; TYPE: PRT
; ORGANISM: Methanopyrus kandleri
US-10-506-454-307

Query Match      66.7%; Score 34; DB 9; Length 357;
Best Local Similarity 100.0%; Pred. No. 1.2e+02;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      4 ECVYC 8
DB      116 ECVYC 120

RESULT 45
US-10-948-053-2
; Sequence 2, Application US/10948053
; Publication No. US20060019887A1
; GENERAL INFORMATION:
; APPLICANT: Dunstan, Colin R.
; APPLICANT: TITLE OF INVENTION: Compositions and Methods for the Prevention or Treatment of Cancer
; FILE REFERENCE: A-605
; CURRENT APPLICATION NUMBER: US/10/948,053
; CURRENT FILING DATE: 2004-09-22
; PRIOR APPLICATION NUMBER: CURRENT APPLICATION NUMBER: US/09/389,545
; PRIOR FILING DATE: CURRENT FILING DATE: 1999-09-03
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 2
; LENGTH: 401
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-948-053-2

Query Match      66.7%; Score 34; DB 9; Length 401;
Best Local Similarity 100.0%; Pred. No. 1.3e+02;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      4 ECVYC 8
DB      79 ECVYC 83

RESULT 46
US-11-072-512-2308
; Sequence 2308, Application US/11072512
; Publication No. US20060029945A1
; GENERAL INFORMATION:
; APPLICANT: ISOGAI, TAKAO
; APPLICANT: SUGIYAMA, TOMOYASU
; APPLICANT: OTSUKI, TETSUJI
; APPLICANT: WAKAMATSU, AI
; APPLICANT: SATO, HIROYUKI
; APPLICANT: ISHII, SHIZUKO
; APPLICANT: YAMAMOTO, JUN-ICHI
```

```
APPLICANT: ISONO, YUUKO
APPLICANT: HIO, YURI
APPLICANT: OTSUKA, KAORU
APPLICANT: NAGAI, KEIICHI
APPLICANT: IRIE, RYOTARO
APPLICANT: TAMECHIKA, ICHIRO
APPLICANT: SEKI, NAOHICO
APPLICANT: YOSHIKAWA, TSUTOMU
APPLICANT: OTSUKA, MOTOKYUKI
APPLICANT: NAGAHARI, KENJI
APPLICANT: MASUHO, YASUHIKO
TITLE OF INVENTION: Novel full length cDNA
FILE REFERENCE: 084335-0191
CURRENT APPLICATION NUMBER: US/11/072,512
PRIOR FILING DATE: 2005-03-07
PRIOR APPLICATION NUMBER: US 60/350,978
PRIOR FILING DATE: 2002-01-25
PRIOR APPLICATION NUMBER: JP 2001-379298
NUMBER OF SEQ ID NOS: 4096
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 2308
LENGTH: 668
TYPE: PRT
ORGANISM: Homo sapiens
US-11-072-512-2308
```

```
Query Match      66.7%: Score 34; DB 11; Length 668;
Best Local Similarity 57.1%: Pred. No. 2e+02; 0; Indels 0; Gaps 0;
Matches 4; Conservative 3; Mismatches 0;
```

```
Oy      2 IILECVYC 8
       :|:|:|
Db      42 VLKCMYC 48
```

```
RESULT 47
US-10-530-061-620
Sequence 620, Application US/10530061
Publication No. US20060079453A1
GENERAL INFORMATION:
APPLICANT: SIDNEY, JOHN
APPLICANT: SOUTHWOOD, SCOTT
APPLICANT: SETTE, ALESSANDRO
TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
FILE REFERENCE: 2060.033US02/EKS/M-M
CURRENT APPLICATION NUMBER: US/10/530,061
PRIOR FILING DATE: 2005-04-04
PRIOR APPLICATION NUMBER: PCT/US03/31308
PRIOR FILING DATE: 2003-10-03
PRIOR APPLICATION NUMBER: 60/416,207
PRIOR FILING DATE: 2002-10-03
PRIOR APPLICATION NUMBER: 60/417,269
PRIOR FILING DATE: 2002-10-08
NUMBER OF SEQ ID NOS: 2503
SOFTWARE: PatentIn version 3.3
SEQ ID NO 620
LENGTH: 9
TYPE: PRT
ORGANISM: Human papillomavirus
US-10-530-061-620
```

```
Query Match      64.7%: Score 33; DB 9; Length 9;
Best Local Similarity 44.4%: Pred. No. 1.9e+05; 0; Indels 0; Gaps 0;
Matches 4; Conservative 3; Mismatches 2;
```

```
Oy      1 IILECVYC 9
       :|:|:|
Db      1 VSIACVYC 9
```

```
RESULT 48
US-10-530-061-517
```

```
Sequence 517, Application US/10530061
Publication No. US20060079453A1
GENERAL INFORMATION:
APPLICANT: SIDNEY, JOHN
APPLICANT: SOUTHWOOD, SCOTT
APPLICANT: SETTE, ALESSANDRO
TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
FILE REFERENCE: 2060.033US02/EKS/M-M
CURRENT APPLICATION NUMBER: US/10/530,061
PRIOR FILING DATE: 2005-04-04
PRIOR APPLICATION NUMBER: PCT/US03/31308
PRIOR FILING DATE: 2003-10-03
PRIOR APPLICATION NUMBER: 60/416,207
PRIOR FILING DATE: 2002-10-03
PRIOR APPLICATION NUMBER: 60/417,269
PRIOR FILING DATE: 2002-10-08
NUMBER OF SEQ ID NOS: 2503
SOFTWARE: PatentIn version 3.3
SEQ ID NO 517
LENGTH: 10
TYPE: PRT
ORGANISM: Human papillomavirus
US-10-530-061-517
```

```
Query Match      64.7%: Score 33; DB 9; Length 10;
Best Local Similarity 55.6%: Pred. No. 9.6; 2; Indels 0; Gaps 0;
Matches 5; Conservative 2; Mismatches 0;
```

```
Oy      1 IILECVYC 9
       :|:|:|
Db      2 IELTCVYC 10
```

```
RESULT 49
US-10-530-061-561
Sequence 561, Application US/10530061
Publication No. US20060079453A1
GENERAL INFORMATION:
APPLICANT: SIDNEY, JOHN
APPLICANT: SOUTHWOOD, SCOTT
APPLICANT: SETTE, ALESSANDRO
TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
FILE REFERENCE: 2060.033US02/EKS/M-M
CURRENT APPLICATION NUMBER: US/10/530,061
PRIOR FILING DATE: 2005-04-04
PRIOR APPLICATION NUMBER: PCT/US03/31308
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NUMBER OF SEQ ID NOS: 2503
SOFTWARE: PatentIn version 3.3
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Publication No. US20060075522A1
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; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
; FILE REFERENCE: 38-21 (53452) B
; CURRENT APPLICATION NUMBER: US/11/188,298
; CURRENT FILING DATE: 2005-07-22
; PRIOR APPLICATION NUMBER: 60/592,978
; PRIOR FILING DATE: 2004-07-31
; NUMBER OF SEQ ID NOS: 22569
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SUMMARIES

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172	29	60.4	491	1	US-08-360-673-4	Sequence 4, Appl1	245	28	58.3	252	2	US-09-057-088-8	Sequence 8, Appl1
173	29	60.4	491	5	US-09-640-305-4	Sequence 4, Appl1	246	28	58.3	256	2	US-09-813-453B-55	Sequence 55, Appl

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394	27	56.2	143	2	US-09-270-767-40896	Sequence 40896, A	467	27	56.2	313	2	US-09-198-452A-1142	Sequence 142, App
395	27	56.2	143	2	US-09-270-767-56112	Sequence 56112, A	468	27	56.2	320	2	US-09-949-016-10187	Sequence 10187, A
396	27	56.2	145	2	US-09-248-796A-17279	Sequence 17279, A	469	27	56.2	329	2	US-09-270-767-42166	Sequence 42166, A
397	27	56.2	150	1	US-08-460-694-3	Sequence 3, Appl	470	27	56.2	338	2	US-09-543-681A-7759	Sequence 7759, Ap
398	27	56.2	150	2	US-08-460-744-3	Sequence 3, Appl	471	27	56.2	345	2	US-09-489-039A-8306	Sequence 8306, Ap
399	27	56.2	150	2	US-07-667-711B-4-3	Sequence 3, Appl	472	27	56.2	349	2	US-09-248-796A-14637	Sequence 14637, A
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401	27	56.2	154	2	US-09-270-767-39895	Sequence 39895, A	474	27	56.2	349	2	US-09-270-767-49102	Sequence 49102, A
402	27	56.2	154	2	US-09-270-767-55112	Sequence 55112, A	475	27	56.2	351	2	US-09-205-258-1071	Sequence 1071, Ap
403	27	56.2	155	2	US-08-813-333C-8	Sequence 8, Appl	476	27	56.2	351	2	US-10-004-860-1071	Sequence 1071, Ap
404	27	56.2	158	2	US-09-270-767-32290	Sequence 32290, A	477	27	56.2	354	2	US-09-949-016-3587	Sequence 3587, Ap
405	27	56.2	158	2	US-09-270-767-47507	Sequence 47507, A	478	27	56.2	358	2	US-09-949-016-10323	Sequence 10323, A
406	27	56.2	159	2	US-10-046-433-7	Sequence 7, Appl	479	27	56.2	375	2	US-09-710-279-2918	Sequence 2918, Ap
407	27	56.2	160	2	US-09-771-161A-115	Sequence 115, App	480	27	56.2	377	2	US-09-134-001C-3200	Sequence 3200, Ap
408	27	56.2	166	2	US-09-270-767-33483	Sequence 33483, A	481	27	56.2	379	2	US-09-543-681A-7287	Sequence 7297, Ap
409	27	56.2	166	2	US-09-270-767-48700	Sequence 48700, A	482	27	56.2	390	2	US-09-543-681A-7466	Sequence 7466, Ap
410	27	56.2	171	2	US-08-718-738-17	Sequence 17, Appl	483	27	56.2	395	2	US-09-949-016-9963	Sequence 9963, Ap
411	27	56.2	171	2	US-09-221-844-17	Sequence 17, Appl	484	27	56.2	417	2	US-09-489-039A-9729	Sequence 9729, Ap
412	27	56.2	171	2	US-09-843-846-17	Sequence 17, Appl	485	27	56.2	421	2	US-09-252-991A-23537	Sequence 23537, A
413	27	56.2	172	2	US-09-134-000C-4430	Sequence 4430, Ap	486	27	56.2	422	2	US-09-270-767-45187	Sequence 45187, A
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415	27	56.2	177	2	US-09-345-236B-11	Sequence 11, Appl	488	27	56.2	439	2	US-09-270-767-53448	Sequence 53448, A
416	27	56.2	183	2	US-09-328-352-7819	Sequence 83, Appl	489	27	56.2	430	2	US-09-198-452A-1038	Sequence 1038, Ap
417	27	56.2	184	1	US-08-481-985B-83	Sequence 83, Appl	490	27	56.2	432	1	US-08-522-166-8	Sequence 8, Appl
418	27	56.2	184	2	US-08-370-476-83	Sequence 83, Appl	491	27	56.2	432	1	US-08-488-382A-8	Sequence 8, Appl
419	27	56.2	184	2	US-09-370-476-57761	Sequence 57761, A	492	27	56.2	432	1	US-08-480-812-8	Sequence 80, Appl
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421	27	56.2	194	2	US-09-252-991A-32072	Sequence 32072, A	494	27	56.2	432	2	US-09-538-092-965	Sequence 6667, Ap
422	27	56.2	199	2	US-08-645-193B-30	Sequence 30, Appl	495	27	56.2	436	2	US-09-949-016-6467	Sequence 968, App
423	27	56.2	201	1	US-09-949-016-7387	Sequence 7387, Ap	496	27	56.2	438	2	US-09-438-185A-368	Sequence 36, Appl
424	27	56.2	229	2	US-09-796-149B-5	Sequence 5, Appl	497	27	56.2	438	2	US-09-268-544B-3	Sequence 2, Appl
425	27	56.2	226	2	US-10-104-047-8820	Sequence 3820, Ap	498	27	56.2	441	2	US-09-949-016-9659	Sequence 9659, Ap
426	27	56.2	226	2	US-10-046-433-5	Sequence 5, Appl	499	27	56.2	441	2	US-09-949-016-10419	Sequence 10419, A
427	27	56.2	227	2	US-09-270-767-47164	Sequence 31967, A	500	27	56.2	443	1	US-07-952-800-5	Sequence 14, Appl
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429	27	56.2	229	1	US-08-286-819A-45	Sequence 45, Appl	502	27	56.2	446	2	US-09-949-016-10702	Sequence 10702, A
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431	27	56.2	229	2	US-09-357-375-45	Sequence 45, Appl	504	27	56.2	447	2	US-08-216-592A-2	Sequence 2, Appl
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433	27	56.2	230	2	US-09-489-039A-13339	Sequence 13339, A	506	27	56.2	453	2	US-09-614-748A-6	Sequence 6, Appl
434	27	56.2	231	2	US-10-046-433-61	Sequence 61, Appl	507	27	56.2	452	2	US-09-591-095-12	Sequence 12, Appl
435	27	56.2	235	2	US-09-860-636-2	Sequence 2, Appl	508	27	56.2	462	2	US-09-489-039A-12427	Sequence 12427, A
436	27	56.2	235	2	US-10-188-947-3	Sequence 3, Appl	509	27	56.2	462	2	US-09-621-816-8	Sequence 8, Appl
437	27	56.2	241	2	US-10-188-947-4	Sequence 4, Appl	510	27	56.2	463	2	US-09-949-016-6435	Sequence 6435, Ap
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440	27	56.2	246	2	US-09-270-767-44162	Sequence 44162, A	513	27	56.2	473	2	US-09-949-016-9481	Sequence 9481, Ap
441	27	56.2	248	2	US-10-159-901-39	Sequence 39, Appl	514	27	56.2	473	2	US-08-904-452-2	Sequence 2, Appl
442	27	56.2	248	2	US-10-159-901-42	Sequence 42, Appl	515	27	56.2	486	2	US-09-517-639-2	Sequence 2, Appl
443	27	56.2	250	2	US-09-248-796A-15562	Sequence 15562, A	516	27	56.2	486	2	US-09-614-748A-5	Sequence 5, Appl
444	27	56.2	252	2	US-09-270-767-36065	Sequence 36065, A	517	27	56.2	492	2	US-10-104-047-1974	Sequence 1974, Ap
445	27	56.2	252	2	US-09-270-767-51282	Sequence 51282, A	518	27	56.2	492	2	US-10-104-047-3223	Sequence 3223, Ap
446	27	56.2	254	2	US-09-252-991A-2253	Sequence 22523, A	519	27	56.2	493	2	US-09-438-185A-12	Sequence 12, Appl
447	27	56.2	254	2	US-09-270-767-42645	Sequence 42645, A	520	27	56.2	495	2	US-09-107-532A-3679	Sequence 3679, Ap
448	27	56.2	257	2	US-09-270-767-33073	Sequence 33073, A	521	27	56.2	500	1	US-07-980-526-2	Sequence 2, Appl
449	27	56.2	265	2	US-09-270-767-41972	Sequence 41972, A	522	27	56.2	500	1	US-08-221-817-15	Sequence 15, Appl
450	27	56.2	265	2	US-09-538-092-551	Sequence 551, App	523	27	56.2	500	1	US-08-454-439-15	Sequence 15, Appl
451	27	56.2	272	2	US-10-104-047-2132	Sequence 2132, Ap	524	27	56.2	500	4	US-09-614-748A-4	Sequence 4, Appl
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453	27	56.2	281	2	US-09-538-092-188	Sequence 188, App	526	27	56.2	506	2	US-09-504-393-4	Sequence 4, Appl
454	27	56.2	289	1	US-08-481-905-79	Sequence 79, Appl	527	27	56.2	506	2	US-10-053-192-4	Sequence 4, Appl
455	27	56.2	289	1	US-08-481-905B-79	Sequence 79, Appl	528	27	56.2	523	2	US-09-538-092-43	Sequence 43, Appl
456	27	56.2	289	2	US-08-370-476-79	Sequence 281, App	529	27	56.2	525	2	US-08-764-870-7	Sequence 7, Appl
457	27	56.2	295	2	US-09-538-092-281	Sequence 281, App	530	27	56.2	525	2	US-08-980-115-7	Sequence 7, Appl
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459	27	56.2	297	2	US-09-949-016-7016	Sequence 7016, Ap	532	27	56.2	526	2	US-10-053-192-1	Sequence 1, Appl
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461	27	56.2	299	2	US-10-119-466-12	Sequence 12, Appl	534	27	56.2	533	1	US-08-216-592A-4	Sequence 4, Appl
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465	27	56.2					538	27	56.2				

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540	27	56.2	544	2	US-09-543-681A-7663	Sequence 7663, Ap	613	27	56.2	908	2	US-09-543-681A-5493	Sequence 5493, Ap
541	27	56.2	545	2	US-09-614-748A-2	Sequence 2, Appli	614	27	56.2	916	2	US-09-949-016-8291	Sequence 8291, Ap
542	27	56.2	546	2	US-09-134-000C-5974	Sequence 5974, Ap	615	27	56.2	916	2	US-09-949-016-8292	Sequence 8292, Ap
543	27	56.2	551	1	US-08-484-493-15	Sequence 15, Appl	616	27	56.2	953	2	US-09-949-016-6489	Sequence 6489, Ap
544	27	56.2	551	1	US-08-484-493-15	Sequence 15, Appl	617	27	56.2	973	2	US-08-904-452-4	Sequence 4, Appli
545	27	56.2	551	1	US-08-345-212-15	Sequence 15, Appl	618	27	56.2	973	2	US-09-517-639-4	Sequence 6682, Ap
546	27	56.2	551	2	US-09-249-003-15	Sequence 15, Appl	619	27	56.2	1020	2	US-09-328-352-6682	Sequence 2243, Ap
547	27	56.2	551	2	US-09-685-844-15	Sequence 15, Appl	620	27	56.2	1034	2	US-10-104-047-2343	Sequence 21, Appl
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549	27	56.2	564	2	US-09-211-704A-8	Sequence 8, Appli	622	27	56.2	1037	2	US-09-252-991A-25361	Sequence 2, Appli
550	27	56.2	567	2	US-09-645-926A-7	Sequence 7, Appli	623	27	56.2	1050	2	US-09-555-554-2	Sequence 8, Appli
551	27	56.2	567	2	US-08-813-323C-1	Sequence 1, Appli	624	27	56.2	1066	2	US-09-541-782-8	Sequence 8, Appli
552	27	56.2	568	2	US-09-949-016-6339	Sequence 6339, Ap	625	27	56.2	1066	2	US-09-723-820-8	Sequence 8, Appli
553	27	56.2	573	2	US-08-813-323C-2	Sequence 2, Appli	626	27	56.2	1098	1	US-08-230-301-82	Sequence 82, Appl
554	27	56.2	573	2	US-09-270-767-42465	Sequence 42465, A	627	27	56.2	1098	1	US-09-013-598-82	Sequence 82, Appl
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556	27	56.2	578	2	US-09-614-748A-1	Sequence 1, Appli	629	27	56.2	1511	2	US-09-487-558B-250	Sequence 250, App
557	27	56.2	578	2	US-09-999-248A-2	Sequence 2, Appli	630	27	56.2	1543	2	US-09-904-987-7	Sequence 7, Appli
558	27	56.2	578	2	US-10-418-036-8	Sequence 8, Appli	631	27	56.2	1564	2	US-08-487-558B-244	Sequence 244, App
559	27	56.2	579	2	US-08-704-711A-1	Sequence 1, Appli	632	27	56.2	1619	2	US-09-332-812A-2	Sequence 2, Appli
560	27	56.2	582	2	US-09-521-220-1	Sequence 1, Appli	633	27	56.2	1704	2	US-09-332-812A-2	Sequence 1, Appli
561	27	56.2	582	2	US-08-704-711A-2	Sequence 2, Appli	634	27	56.2	2954	2	US-09-150-867-1	Sequence 8, Appli
562	27	56.2	582	2	US-08-448-489-1	Sequence 1, Appli	635	27	56.2	3118	1	US-08-457-273B-8	Sequence 16, Appl
563	27	56.2	582	2	US-09-211-704A-9	Sequence 9, Appli	636	27	56.2	3119	1	US-08-246-982A-16	Sequence 16, Appl
564	27	56.2	582	2	US-09-521-220-2	Sequence 2, Appli	637	27	56.2	3119	1	US-08-453-265-16	Sequence 6, Appli
565	27	56.2	582	2	US-09-391-104-28	Sequence 28, Appl	638	27	56.2	3144	1	US-08-246-982A-6	Sequence 6, Appli
566	27	56.2	582	2	US-09-919-497-84	Sequence 84, Appl	639	27	56.2	3144	1	US-08-453-265-6	Sequence 6, Appli
567	27	56.2	582	2	US-09-689-730-1	Sequence 1, Appli	640	27	56.2	3144	1	US-08-453-265-6	Sequence 6, Appli
568	27	56.2	584	1	US-08-415-559-41	Sequence 41, Appl	641	27	56.2	3144	1	US-08-457-273B-42	Sequence 42, Appl
569	27	56.2	590	1	US-08-221-817-14	Sequence 14, Appl	642	27	56.2	3144	2	US-08-556-419-21	Sequence 21, Appl
570	27	56.2	590	1	US-08-454-439-14	Sequence 14, Appl	643	27	56.2	3144	2	US-08-556-419-21	Sequence 15, Appl
571	27	56.2	590	2	US-08-464-954A-5	Sequence 5, Appli	644	27	56.2	603	2	US-09-538-092-1118	Sequence 1118, Ap
572	27	56.2	590	2	US-09-771-161A-206	Sequence 206, App	645	27	55.2	26.5	2	US-09-973-457-2	Sequence 2, Appli
573	27	56.2	590	2	US-09-771-161A-207	Sequence 207, App	646	27	54.2	9	2	US-08-159-339A-562	Sequence 562, App
574	27	56.2	590	2	US-09-771-161A-208	Sequence 208, App	647	27	54.2	9	2	US-10-365-908-23	Sequence 23, Appli
575	27	56.2	604	4	PCT-US94-10487-14	Sequence 13, Appl	648	27	54.2	10	2	US-09-000-003A-6	Sequence 6, Appli
576	27	56.2	604	4	US-08-753-750B-13	Sequence 13, Appl	649	27	54.2	10	2	US-09-405-986A-7	Sequence 7, Appli
577	27	56.2	624	2	US-09-543-681A-343	Sequence 4343, Ap	650	27	54.2	11	2	US-08-075-541D-51	Sequence 45, Appl
578	27	56.2	640	2	US-09-949-016-7992	Sequence 7992, Ap	651	27	54.2	18	2	US-08-075-541D-45	Sequence 47, Appl
579	27	56.2	644	2	US-09-270-767-42926	Sequence 42926, A	652	27	54.2	20	1	US-08-934-915-153	Sequence 153, App
580	27	56.2	666	2	US-09-964-992A-5	Sequence 5, Appli	653	27	54.2	20	1	US-08-075-541D-46	Sequence 46, Appl
581	27	56.2	666	2	US-08-704-711A-3	Sequence 3, Appli	654	27	54.2	20	2	US-09-980-177A-70	Sequence 70, Appl
582	27	56.2	669	2	US-09-521-220-3	Sequence 29, Appl	655	27	54.2	21	2	US-08-075-541D-36	Sequence 36, Appl
583	27	56.2	669	2	US-09-391-104-29	Sequence 29, Appl	656	27	54.2	21	2	US-10-612-818-7	Sequence 7, Appli
584	27	56.2	674	2	US-09-134-000C-4004	Sequence 4, Appli	657	27	54.2	23	2	US-09-690-454-225	Sequence 225, App
585	27	56.2	679	1	US-08-462-481-4	Sequence 6, Appli	658	27	54.2	24	2	US-09-270-767-35109	Sequence 35109, A
586	27	56.2	679	1	US-08-436-771-6	Sequence 6, Appli	659	27	54.2	24	2	US-09-270-767-50326	Sequence 162, App
587	27	56.2	679	1	US-08-434-998-6	Sequence 6, Appli	660	27	54.2	29	2	US-08-974-549A-162	Sequence 162, App
588	27	56.2	679	1	US-08-487-797-6	Sequence 6, Appli	661	27	54.2	29	2	US-09-402-141B-162	Sequence 162, App
589	27	56.2	679	1	US-08-701-005A-4	Sequence 4, Appli	662	27	54.2	29	2	US-09-721-456-162	Sequence 162, App
590	27	56.2	679	1	US-08-479-895-4	Sequence 4, Appli	663	27	54.2	30	1	US-08-363-586-1	Sequence 1, Appli
591	27	56.2	679	2	US-08-943-956A-4	Sequence 4, Appli	664	27	54.2	30	1	US-08-934-915-51	Sequence 51, Appl
592	27	56.2	679	2	US-09-393-028-2	Sequence 2, Appli	665	27	54.2	30	1	US-09-486-394-1	Sequence 1, Appli
593	27	56.2	679	4	PCT-US95-02058-6	Sequence 6, Appli	666	27	54.2	30	2	US-09-486-394-2	Sequence 2, Appli
594	27	56.2	681	1	US-09-252-991A-25690	Sequence 25690, A	667	27	54.2	30	2	US-09-828-645-3	Sequence 3, Appli
595	27	56.2	686	1	US-08-993-228-12	Sequence 12, Appl	668	27	54.2	32	2	US-09-230-041-42	Sequence 42, Appl
596	27	56.2	711	2	US-09-964-992A-1	Sequence 1, Appli	669	27	54.2	35	2	US-09-230-041-37	Sequence 37, Appl
597	27	56.2	711	2	US-09-964-992A-2	Sequence 2, Appli	670	27	54.2	35	2	US-09-779-451-39	Sequence 39, Appl
598	27	56.2	713	2	US-09-438-185A-125	Sequence 125, App	671	27	54.2	38	2	US-09-779-451-40	Sequence 40, Appl
599	27	56.2	785	1	US-07-841-997A-4	Sequence 4, Appli	672	27	54.2	38	2	US-09-270-767-61048	Sequence 61048, A
600	27	56.2	785	1	US-08-290-301-4	Sequence 4, Appli	673	27	54.2	43	6	5177197-74	Patent No. 5177197
601	27	56.2	785	2	US-09-013-598-4	Sequence 4, Appli	674	27	54.2	43	6	US-09-779-451-38	Sequence 38, Appl
602	27	56.2	797	2	US-09-949-016-6761	Sequence 6761, Ap	675	27	54.2	54	2	US-09-853-465-41	Sequence 41, Appl
603	27	56.2	809	2	US-10-104-047-3367	Sequence 3367, Ap	676	27	54.2	55	2	US-08-853-466-10	Sequence 10, Appl
604	27	56.2	810	2	US-09-198-452A-20	Sequence 20, Appl	677	27	54.2	55	2	US-08-511-485-14	Sequence 14, Appl
605	27	56.2	810	2	US-09-198-452A-1128	Sequence 1128, Ap	678	27	54.2	67	1	US-09-201-936-14	Sequence 14, Appl
606	27	56.2	819	2	US-09-338-185A-1055	Sequence 1055, Ap	679	27	54.2	67	2	US-09-011-356-14	Sequence 14, Appl
607	27	56.2	827	2	US-09-134-000C-4612	Sequence 4612, Ap	680	27	54.2	67	2	US-09-201-936-14	Sequence 14, Appl
608	27	56.2	836	2	US-09-417-197-61	Sequence 61, Appl	681	27	54.2	70	2	US-09-270-767-58553	Sequence 58553, A
609	27	56.2	840	2	US-09-949-016-6569	Sequence 6569, Ap	682	27	54.2	75	2	US-09-248-796A-22166	Sequence 22166, A
610	27	56.2	842	2	US-09-417-197-43	Sequence 43, Appl	683	27	54.2	75	2	US-09-248-796A-22166	Sequence 22166, A
611	27	56.2	898	2	US-08-753-750B-10	Sequence 10, Appl	684	27	54.2	75	2	US-09-248-796A-25317	Sequence 25317, A

685	25	54.2	75	2	US-09-248-796A-24607	Sequence 24607, A	758	25	54.2	138	2	US-09-702-705-328	Sequence 328, App
686	26	54.2	79	2	US-09-270-767-39788	Sequence 39788, A	759	26	54.2	138	2	US-09-736-457-328	Sequence 328, App
687	26	54.2	79	2	US-09-270-767-35005	Sequence 35005, A	760	26	54.2	138	2	US-09-614-124B-328	Sequence 328, App
688	26	54.2	84	2	US-09-621-976-6176	Sequence 6176, Ap	761	26	54.2	138	2	US-09-671-325-328	Sequence 328, App
689	26	54.2	84	2	US-09-270-767-35597	Sequence 35597, A	762	26	54.2	138	2	US-09-589-184-328	Sequence 328, App
690	26	54.2	84	2	US-09-270-767-50814	Sequence 50814, A	763	26	54.2	138	2	US-09-688-824-328	Sequence 328, App
691	26	54.2	85	2	US-09-270-767-37963	Sequence 37963, A	764	26	54.2	138	2	US-09-975-456B-9	Sequence 9, Appl1
692	26	54.2	85	2	US-09-270-767-53180	Sequence 53180, A	765	26	54.2	138	2	US-10-017-754-328	Sequence 328, App
693	26	54.2	87	2	US-09-690-454-221	Sequence 221, App	766	26	54.2	138	2	US-09-651-563-328	Sequence 328, App
694	26	54.2	97	2	US-09-583-110-3719	Sequence 3719, Ap	767	26	54.2	138	2	US-09-519-642-328	Sequence 328, App
695	26	54.2	98	1	US-08-406-248-6	Sequence 6, Appl1	768	26	54.2	138	4	PCT-US93-03936-2	Sequence 2, Appl1
696	26	54.2	98	2	US-08-075-541D-42	Sequence 42, Appl	769	26	54.2	138	4	PCT-US94-07926-32	Sequence 32, Appl
697	26	54.2	98	2	US-09-382-616A-1	Sequence 1, Appl1	770	26	54.2	132	2	US-09-069-628-24	Sequence 24, Appl
698	26	54.2	98	2	US-08-944-368A-4	Sequence 4, Appl1	771	26	54.2	133	2	US-09-069-628-23	Sequence 23, Appl
699	26	54.2	98	2	US-09-820-764-4	Sequence 4, Appl1	772	26	54.2	135	2	US-09-656-486-27	Sequence 27, Appl
700	26	54.2	98	2	US-09-613-303-8	Sequence 8, Appl1	773	26	54.2	145	2	US-09-975-456B-7	Sequence 7, Appl1
701	26	54.2	98	2	US-09-566-420-19	Sequence 19, Appl	774	26	54.2	145	2	US-09-949-002-396	Sequence 396, App
702	26	54.2	98	2	US-09-986-118A-4	Sequence 4, Appl1	775	26	54.2	149	1	US-08-460-694-5	Sequence 5, Appl1
703	26	54.2	98	2	US-09-728-466-1	Sequence 1, Appl1	776	26	54.2	149	2	US-08-460-744-5	Sequence 5, Appl1
704	26	54.2	98	2	US-09-824-017-4	Sequence 4, Appl1	777	26	54.2	149	2	US-07-667-711B-5	Sequence 5, Appl1
705	26	54.2	98	2	US-10-267-311-8	Sequence 8, Appl1	778	26	54.2	149	2	US-09-134-000C-3557	Sequence 3557, Ap
706	26	54.2	98	2	US-10-201-764-19	Sequence 19, Appl	779	26	54.2	131	2	US-09-270-767-44667	Sequence 44667, A
707	26	54.2	98	2	US-09-637-746-3	Sequence 3, Appl1	780	26	54.2	134	2	US-09-252-991A-17864	Sequence 17864, A
708	26	54.2	98	2	US-09-501-097A-7	Sequence 7, Appl1	781	26	54.2	134	2	US-09-270-767-40280	Sequence 40280, A
709	26	54.2	98	2	US-09-980-523A-12	Sequence 12, Appl	782	26	54.2	144	2	US-09-270-767-55496	Sequence 55496, A
710	26	54.2	102	2	US-09-107-433-3017	Sequence 3017, Ap	783	26	54.2	135	2	US-09-621-976-5192	Sequence 5192, Ap
711	26	54.2	102	2	US-09-640-211A-925	Sequence 925, App	784	26	54.2	155	2	US-09-513-999C-7829	Sequence 7829, Ap
712	26	54.2	106	2	US-09-950-933A-70	Sequence 70, Appl	785	26	54.2	137	2	US-09-949-002-514	Sequence 514, App
713	26	54.2	109	1	US-08-308-494A-23	Sequence 23, Appl	786	26	54.2	138	1	US-08-247-904B-19	Sequence 10, Appl
714	26	54.2	110	2	US-08-957-001B-5	Sequence 5, Appl1	787	26	54.2	138	2	US-08-767-942A-19	Sequence 19, Appl
715	26	54.2	110	2	US-08-957-001B-24	Sequence 24, Appl	788	26	54.2	139	2	US-09-270-767-31721	Sequence 31731, A
716	26	54.2	110	2	US-09-496-301-5	Sequence 5, Appl1	789	26	54.2	159	2	US-09-270-767-46948	Sequence 46948, A
717	26	54.2	110	2	US-09-496-301-24	Sequence 24, Appl	790	26	54.2	155	2	US-09-519-232-44	Sequence 44, Appl
718	26	54.2	110	2	US-09-462-917A-30	Sequence 30, Appl	791	26	54.2	166	2	US-09-270-767-32711	Sequence 32711, A
719	26	54.2	110	2	US-09-270-767-32515	Sequence 32515, A	792	26	54.2	167	2	US-09-800-729-100	Sequence 100, App
720	26	54.2	113	2	US-09-270-767-47732	Sequence 47732, A	793	26	54.2	157	2	US-09-771-161A-98	Sequence 98, Appl
721	26	54.2	113	2	US-09-462-917A-10	Sequence 10, Appl	794	26	54.2	168	2	US-09-762-960-12	Sequence 12, Appl
722	26	54.2	113	2	US-09-462-917A-12	Sequence 12, Appl	795	26	54.2	168	2	US-09-949-016-7003	Sequence 7003, Ap
723	26	54.2	113	2	US-09-462-917A-26	Sequence 26, Appl	796	26	54.2	168	2	US-10-662-756A-12	Sequence 12, Appl
724	26	54.2	113	2	US-09-462-917A-28	Sequence 28, Appl	797	26	54.2	170	2	US-09-130-663-2	Sequence 2, Appl1
725	26	54.2	114	2	US-08-928-856-66	Sequence 66, Appl	798	26	54.2	170	2	US-09-432-335-2	Sequence 2, Appl1
726	26	54.2	115	2	US-09-462-917A-24	Sequence 24, Appl	799	26	54.2	170	2	US-09-614-022-2	Sequence 162, App
727	26	54.2	116	2	US-09-462-917A-20	Sequence 20, Appl	800	26	54.2	170	2	US-09-489-039A-7536	Sequence 7536, Ap
728	26	54.2	117	2	US-09-462-917A-6	Sequence 6, Appl1	801	26	54.2	170	2	US-10-012-231A-162	Sequence 162, App
729	26	54.2	118	1	US-08-886-457-40	Sequence 40, Appl	802	26	54.2	170	2	US-10-015-389A-162	Sequence 162, App
730	26	54.2	118	2	US-09-097-094-5	Sequence 5, Appl1	803	26	54.2	170	2	US-10-006-768A-162	Sequence 162, App
731	26	54.2	118	2	US-09-362-230-40	Sequence 40, Appl	804	26	54.2	170	2	US-10-015-671A-162	Sequence 162, App
732	26	54.2	118	4	US-09-489-039A-7782	Sequence 7782, Ap	805	26	54.2	170	2	US-10-015-393A-162	Sequence 162, App
733	26	54.2	118	4	PCT-US94-07926-40	Sequence 40, Appl	806	26	54.2	170	2	US-10-011-833A-162	Sequence 162, App
734	26	54.2	121	2	US-09-613-303-12	Sequence 12, Appl	807	26	54.2	170	2	US-10-006-041A-162	Sequence 162, App
735	26	54.2	121	2	US-10-267-311-12	Sequence 12, Appl	808	26	54.2	170	2	US-10-012-064A-162	Sequence 162, App
736	26	54.2	124	2	US-09-199-242E-3	Sequence 3, Appl1	809	26	54.2	172	2	US-08-860-165-12	Sequence 12, Appl
737	26	54.2	124	2	US-09-199-242E-5	Sequence 5, Appl1	810	26	54.2	172	2	US-09-359-382-12	Sequence 12, Appl
738	26	54.2	126	6	5171845-12	Patent No. 5171845	811	26	54.2	172	2	US-09-673-95A-175	Sequence 175, App
739	26	54.2	129	2	US-09-602-787A-166	Sequence 166, App	812	26	54.2	175	2	US-09-230-637-24	Sequence 24, Appl
740	26	54.2	129	2	US-09-605-703B-2228	Sequence 2228, App	813	26	54.2	176	2	US-09-270-767-45539	Sequence 45539, A
741	26	54.2	131	1	US-08-441-629-6	Sequence 6, Appl1	814	26	54.2	179	2	US-09-370-767-43211	Sequence 43211, A
742	26	54.2	131	2	US-08-776-207-6	Sequence 6, Appl1	815	26	54.2	180	2	US-09-198-452A-813	Sequence 813, App
743	26	54.2	131	2	US-09-507-773-6	Sequence 6, Appl1	816	26	54.2	182	2	US-09-270-767-3436	Sequence 3436, A
744	26	54.2	131	2	US-09-270-767-31668	Sequence 31668, A	817	26	54.2	182	2	US-09-767-49563	Sequence 49563, A
745	26	54.2	131	2	US-09-270-767-46885	Sequence 46885, A	818	26	54.2	182	2	US-10-101-664A-632	Sequence 632, App
746	26	54.2	131	2	US-10-016-447-6	Sequence 6, Appl1	819	26	54.2	182	2	US-09-949-016-10306	Sequence 10306, A
747	26	54.2	131	4	PCT-US95-09172-6	Sequence 6, Appl1	820	26	54.2	183	2	US-09-438-185A-765	Sequence 765, App
748	26	54.2	133	2	US-09-199-637A-329	Sequence 329, App	821	26	54.2	185	2	US-09-134-000C-3440	Sequence 3440, Ap
749	26	54.2	133	2	US-09-252-991A-21458	Sequence 21458, A	822	26	54.2	185	2	US-09-248-796A-16339	Sequence 16339, A
750	26	54.2	135	1	US-08-757-036-3	Sequence 3, Appl1	823	26	54.2	188	2	US-08-470-335-204	Sequence 204, App
751	26	54.2	138	1	US-08-468-709B-2	Sequence 2, Appl1	824	26	54.2	188	2	US-08-411-295F-37	Sequence 37, Appl
752	26	54.2	138	1	US-08-468-709B-12	Sequence 12, Appl	825	26	54.2	188	2	US-08-411-295F-90	Sequence 90, Appl
753	26	54.2	138	1	US-08-757-036-1	Sequence 1, Appl1	826	26	54.2	189	2	US-09-821-803A-4	Sequence 4, Appl1
754	26	54.2	138	1	US-08-241-664B-2	Sequence 2, Appl1	827	26	54.2	189	2	US-09-513-999C-7827	Sequence 7827, Ap
755	26	54.2	138	1	US-08-241-664B-12	Sequence 12, Appl	828	26	54.2	190	2	US-08-541-018-42	Sequence 42, Appl
756	26	54.2	138	1	US-08-888-497-32	Sequence 32, Appl	829	26	54.2	190	2	US-08-470-339-204	Sequence 204, App
757	26	54.2	138	2	US-09-362-230-32	Sequence 32, Appl	830	26	54.2	190	2	US-08-467-602-398	Sequence 398, App

831	26	54.2	191	2	US-09-270-767-60858	Sequence 60858, A	904	26	54.2	275	2	US-09-011-356-12	Sequence 12, Appl
832	26	54.2	196	2	US-09-248-796A-20971	Sequence 20971, A	905	26	54.2	276	2	US-09-201-932-12	Sequence 12, Appl
833	26	54.2	197	2	US-09-270-767-61392	Sequence 61392, A	906	26	54.2	278	2	US-09-485-885-21	Sequence 21, Appl
834	26	54.2	198	2	US-09-613-303-35	Sequence 35, Appl	907	26	54.2	278	2	US-09-583-110-864	Sequence 3664, Ap
835	26	54.2	198	2	US-10-267-311-35	Sequence 35, Appl	908	26	54.2	281	2	US-09-270-767-58105	Sequence 58105, A
836	26	54.2	200	2	US-08-965-056-104	Sequence 104, App	909	26	54.2	282	1	US-08-446-924-4	Sequence 4, Appl
837	26	54.2	204	2	US-09-270-767-41214	Sequence 41214, A	910	26	54.2	282	1	US-08-798-665-4	Sequence 4, Appl
838	26	54.2	204	2	US-09-270-767-56430	Sequence 56430, A	911	26	54.2	282	2	US-08-982-987A-4	Sequence 10665, A
839	26	54.2	207	2	US-10-290-579A-268	Sequence 268, App	912	26	54.2	282	2	US-09-949-016-10666	Sequence 37674, A
840	26	54.2	209	2	US-09-583-110-4518	Sequence 4518, Ap	913	26	54.2	285	2	US-09-270-767-37674	Sequence 37674, A
841	26	54.2	210	2	US-09-107-433-4694	Sequence 4694, Ap	914	26	54.2	285	2	US-09-270-767-52891	Sequence 52891, A
842	26	54.2	211	2	US-09-270-767-35404	Sequence 35404, A	915	26	54.2	285	2	US-09-438-185A-107	Sequence 107, App
843	26	54.2	211	2	US-09-270-767-51621	Sequence 51621, A	916	26	54.2	287	2	US-09-501-097A-25	Sequence 25, Appl
844	26	54.2	215	2	US-09-131-028A-3	Sequence 3, Appl	917	26	54.2	287	2	US-09-248-796A-14894	Sequence 14894, A
845	26	54.2	215	2	US-09-131-028A-13	Sequence 13, Appl	918	26	54.2	288	2	US-09-423-439-38	Sequence 38, Appl
846	26	54.2	215	2	US-09-538-092-923	Sequence 923, App	919	26	54.2	288	2	US-09-270-767-40145	Sequence 40145, A
847	26	54.2	215	2	US-09-949-016-6060	Sequence 6060, Ap	920	26	54.2	288	2	US-09-270-767-55361	Sequence 55361, A
848	26	54.2	219	1	US-08-353-400-34	Sequence 34, Appl	921	26	54.2	291	2	US-09-640-211A-594	Sequence 594, App
849	26	54.2	219	1	US-09-489-039A-11859	Sequence 11859, A	922	26	54.2	295	2	US-09-613-303-33	Sequence 33, Appl
850	26	54.2	220	1	US-08-761-248B-4	Sequence 4, Appl	923	26	54.2	295	2	US-10-267-311-33	Sequence 45708, A
851	26	54.2	220	1	US-09-485-885-1	Sequence 1, Appl	924	26	54.2	299	2	US-09-270-767-45708	Sequence 45708, A
852	26	54.2	220	1	US-09-248-796A-18583	Sequence 18583, A	925	26	54.2	300	2	US-09-107-433-2607	Sequence 2607, Ap
853	26	54.2	221	2	US-09-373-157-3	Sequence 3, Appl	926	26	54.2	308	2	US-09-270-767-41460	Sequence 41460, A
854	26	54.2	222	2	US-09-771-161A-141	Sequence 141, App	927	26	54.2	312	2	US-09-270-767-41737	Sequence 41737, A
855	26	54.2	222	2	US-09-949-016-9368	Sequence 9368, Ap	928	26	54.2	312	2	US-09-079-029-10	Sequence 10, Appl
856	26	54.2	232	2	US-08-886-269-1	Sequence 1, Appl	929	26	54.2	314	1	US-08-460-309-19	Sequence 19, Appl
857	26	54.2	232	2	US-08-886-269-2	Sequence 2, Appl	930	26	54.2	314	1	US-08-125-077-19	Sequence 188, App
858	26	54.2	236	2	US-08-886-269-3	Sequence 3, Appl	931	26	54.2	314	2	US-09-771-161A-189	Sequence 190, App
859	26	54.2	236	2	US-08-886-269-4	Sequence 4, Appl	932	26	54.2	314	2	US-09-771-161A-190	Sequence 191, App
860	26	54.2	236	2	US-08-886-269-5	Sequence 5, Appl	933	26	54.2	316	1	US-09-771-161A-191	Sequence 4, Appl
861	26	54.2	236	2	US-09-167-647-1	Sequence 1, Appl	934	26	54.2	316	1	US-08-403-634-4	Sequence 31, Appl
862	26	54.2	236	2	US-09-167-647-2	Sequence 2, Appl	935	26	54.2	316	1	US-08-913-441B-4	Sequence 4, Appl
863	26	54.2	236	2	US-09-167-647-3	Sequence 3, Appl	936	26	54.2	316	2	US-08-913-441B-4	Sequence 4, Appl
864	26	54.2	236	2	US-09-167-647-4	Sequence 4, Appl	937	26	54.2	316	2	US-09-571-985C-31	Sequence 31, Appl
865	26	54.2	236	2	US-09-167-647-5	Sequence 5, Appl	938	26	54.2	316	2	US-10-104-047-3654	Sequence 3654, Ap
866	26	54.2	236	2	US-09-373-157-2	Sequence 2, Appl	939	26	54.2	316	2	US-09-248-796A-18709	Sequence 18709, A
867	26	54.2	237	1	US-09-949-016-9362	Sequence 9362, Ap	940	26	54.2	319	2	US-09-438-185A-922	Sequence 922, App
868	26	54.2	239	1	US-08-353-400-37	Sequence 37, Appl	941	26	54.2	320	2	US-09-252-991A-32461	Sequence 32461, A
869	26	54.2	239	1	US-09-485-885-12	Sequence 12, Appl	942	26	54.2	324	2	US-09-556-877-292	Sequence 292, App
870	26	54.2	243	2	US-09-328-352-4935	Sequence 4935, Ap	943	26	54.2	324	2	US-09-598-419-292	Sequence 292, App
871	26	54.2	243	2	US-10-159-901-44	Sequence 44, Appl	944	26	54.2	325	2	US-09-107-532A-6289	Sequence 4289, Ap
872	26	54.2	249	2	US-09-297-181-4	Sequence 4, Appl	945	26	54.2	325	2	US-09-821-801A-2	Sequence 2, Appl
873	26	54.2	250	2	US-09-543-681A-6726	Sequence 6726, Ap	946	26	54.2	325	2	US-09-792-024-83	Sequence 83, Appl
874	26	54.2	251	1	US-09-373-157-1	Sequence 1, Appl	947	26	54.2	327	2	US-09-438-185A-922	Sequence 922, App
875	26	54.2	251	1	US-08-459-818-20	Sequence 20, Appl	948	26	54.2	332	2	US-09-252-991A-32461	Sequence 32461, A
876	26	54.2	253	1	US-08-889-666-20	Sequence 20, Appl	949	26	54.2	333	2	US-09-556-877-292	Sequence 292, App
877	26	54.2	253	1	US-08-465-078-20	Sequence 20, Appl	950	26	54.2	333	2	US-09-620-412C-292	Sequence 292, App
878	26	54.2	253	1	US-08-725-776-20	Sequence 20, Appl	951	26	54.2	333	2	US-09-598-419-292	Sequence 292, App
879	26	54.2	253	1	US-08-488-062-20	Sequence 20, Appl	952	26	54.2	336	2	US-09-107-532A-6289	Sequence 4289, Ap
880	26	54.2	255	2	US-09-198-452A-123	Sequence 123, App	953	26	54.2	336	2	US-09-821-801A-2	Sequence 2, Appl
881	26	54.2	255	2	US-09-134-000C-6320	Sequence 6320, Ap	954	26	54.2	340	2	US-09-438-185A-550	Sequence 550, App
882	26	54.2	255	2	US-09-949-016-10591	Sequence 10591, A	955	26	54.2	344	2	US-09-270-767-55495	Sequence 55495, A
883	26	54.2	260	2	US-08-495-484-7	Sequence 7, Appl	956	26	54.2	352	2	US-09-270-767-55495	Sequence 55495, A
884	26	54.2	260	2	US-09-426-783-7	Sequence 7, Appl	957	26	54.2	352	2	US-09-489-039A-8007	Sequence 8007, Ap
885	26	54.2	261	2	US-09-252-991A-18958	Sequence 18958, A	958	26	54.2	355	2	US-09-235-103-4	Sequence 103, A
886	26	54.2	261	2	US-09-949-016-11028	Sequence 11028, A	959	26	54.2	356	2	US-09-235-103-4	Sequence 103, A
887	26	54.2	262	2	US-09-270-767-33946	Sequence 33946, A	960	26	54.2	357	2	US-09-270-767-45129	Sequence 45129, A
888	26	54.2	262	2	US-09-270-767-49163	Sequence 49163, A	961	26	54.2	358	2	US-09-543-681A-1134	Sequence 8134, Ap
889	26	54.2	263	1	US-08-117-083-9	Sequence 9, Appl	962	26	54.2	358	2	US-09-949-016-7287	Sequence 7287, Ap
890	26	54.2	263	1	US-09-489-039A-8370	Sequence 8370, Ap	963	26	54.2	359	2	US-09-489-039A-7467	Sequence 7467, Ap
891	26	54.2	263	1	US-09-270-767-38693	Sequence 38693, A	964	26	54.2	363	2	US-09-248-796A-17899	Sequence 17899, A
892	26	54.2	263	1	US-09-270-767-53910	Sequence 53910, A	965	26	54.2	369	2	US-09-198-452A-1048	Sequence 1048, Ap
893	26	54.2	265	1	US-08-403-853-16	Sequence 16, Appl	966	26	54.2	369	2	US-09-438-185A-977	Sequence 977, App
894	26	54.2	265	1	US-09-489-039A-12711	Sequence 12711, A	967	26	54.2	372	2	US-09-252-991A-17956	Sequence 17956, A
895	26	54.2	268	2	US-08-871-483-11	Sequence 11, Appl	968	26	54.2	372	2	US-08-630-915A-36	Sequence 36, Appl
896	26	54.2	270	1	US-09-821-803A-6	Sequence 6, Appl	969	26	54.2	377	2	US-09-502-528-3	Sequence 3, Appl
897	26	54.2	271	1	US-08-117-083-14	Sequence 14, Appl	970	26	54.2	377	2	US-09-879-957-36	Sequence 36, Appl
898	26	54.2	273	2	US-09-949-016-8303	Sequence 8303, Ap	971	26	54.2	383	2	US-09-485-885-23	Sequence 23, Appl
899	26	54.2	273	2	US-09-949-016-8304	Sequence 8304, Ap	972	26	54.2	388	2	US-09-248-796A-17815	Sequence 17815, A
900	26	54.2	275	1	US-08-511-485-12	Sequence 12, Appl	973	26	54.2	388	2	US-09-215-450-24	Sequence 24, Appl
901	26	54.2	275	2	US-08-836-134-21	Sequence 21, Appl	974	26	54.2	391	2	US-09-134-000C-6210	Sequence 6210, Ap
902	26	54.2	275	2	US-09-493-784-21	Sequence 21, Appl	975	26	54.2	393	2	US-09-252-991A-17136	Sequence 17136, A
903	26	54.2	275	2	US-09-201-936-12	Sequence 12, Appl	976	26	54.2	393	2	US-09-252-991A-17136	Sequence 17136, A

977 26 54.2 399 2 US-09-489-039A-14312 Sequence 14312, A
978 26 54.2 403 1 US-08-474-379C-14 Sequence 14, Appl
979 26 54.2 403 2 US-09-146-249A-14 Sequence 14, Appl
980 26 54.2 403 2 US-08-206-188B-14 Sequence 14, Appl
981 26 54.2 403 2 US-09-248-796A-18376 Sequence 18376, A
982 26 54.2 404 2 US-09-134-000C-4504 Sequence 4504, A
983 26 54.2 405 1 US-07-688-352C-14 Sequence 14, Appl
984 26 54.2 405 4 PCT-US91-02714-14 Sequence 14, Appl
985 26 54.2 407 2 US-09-491-577-78 Sequence 78, Appl
986 26 54.2 412 2 US-09-079-030-124 Sequence 124, Appl
987 26 54.2 420 2 US-09-501-097A-22 Sequence 22, Appl
988 26 54.2 420 2 US-09-949-016-11330 Sequence 11330, A
989 26 54.2 422 1 US-08-680-726A-68 Sequence 68, Appl
990 26 54.2 422 2 US-09-092-409-68 Sequence 68, Appl
991 26 54.2 424 2 US-09-134-000C-5836 Sequence 5836, Ap
992 26 54.2 440 2 US-09-949-016-8372 Sequence 8372, Ap
993 26 54.2 440 2 US-09-949-016-8373 Sequence 8373, Ap
994 26 54.2 443 2 US-09-347-798-14 Sequence 14, Appl
995 26 54.2 445 2 US-09-328-352-4714 Sequence 4714, Ap
996 26 54.2 446 2 US-09-949-016-10953 Sequence 10953, A
997 26 54.2 451 2 US-09-270-767-40751 Sequence 40751, A
998 26 54.2 451 2 US-09-270-767-45789 Sequence 45789, A
999 26 54.2 451 2 US-09-270-767-55967 Sequence 55967, A
1000 26 54.2 458 2 US-09-198-452A-209 Sequence 209, App

ALIGNMENTS

RESULT 1
US-08-159-339A-575
Sequence 575, Application US/08159339A
Patent No. 6037135
GENERAL INFORMATION:
APPLICANT: Kubo, Ralph T.
APPLICANT: Grey, Howard M.
APPLICANT: Sette, Alessandro
APPLICANT: Celis, Esteban
TITLE OF INVENTION: HLA Binding peptides and Their
TITLE OF INVENTION: Uses
NUMBER OF SEQUENCES: 1254
CORRESPONDENCE ADDRESSES:
ADDRESSEE: Townsend and Townsend and Crew LLP
STREET: Two Embarcadero Center, Eighth Floor
CITY: San Francisco
STATE: CA
COUNTRY: USA
ZIP: 94111-3834
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSeq for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/159,339A
FILING DATE: 29-NOV-1993
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/926,666
FILING DATE: 07-AUG-1992
APPLICATION NUMBER: US 08/027,746
FILING DATE: 05-MAR-1993
APPLICATION NUMBER: US 08/103,396
FILING DATE: 06-AUG-1993
ATTORNEY/AGENT INFORMATION:
NAME: Weber, Ellen Lauver
REGISTRATION NUMBER: 32,762
REFERENCE/DOCKET NUMBER: 018623-005030US
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 576-0200
TELEFAX: (415) 576-0300
TELEX:
INFORMATION FOR SEQ ID NO: 575:

SEQUENCE CHARACTERISTICS:
LENGTH: 10 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-08-159-339A-575

Query Match 100.0%; Score 48; DB 2; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.012;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Cy 1 VYCKQQLLR 9
Db 2 VYCKQQLLR 10

RESULT 2

US-08-934-915-160
Sequence 160, Application US/08934915
Patent No. 5932412

GENERAL INFORMATION:
APPLICANT: DILLNER, JOAKIM
APPLICANT: CHENG, HWEI-MING
APPLICANT: DILLNER, LENA
TITLE OF INVENTION: SYNTHETIC PEPTIDES OF HUMAN
TITLE OF INVENTION: PAPILLOMAVIRUS 1, 5, 6, 8,
TITLE OF INVENTION: 11, 16, 18, 31, 33 AND 56,
TITLE OF INVENTION: USEFUL IN IMMUNOASSAY FOR
NUMBER OF SEQUENCES: 193
CORRESPONDENCE ADDRESSES:
ADDRESSEE: MASON & ASSOCIATES, P.A.
STREET: 1757 U.S. HWY. 19 NORTH, SUITE 500
CITY: CLEARWATER
STATE: FLORIDA
COUNTRY: U.S.A.
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: Windows 3.0
SOFTWARE: Microsoft Word 6.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/934,915
FILING DATE: 22-SEP-1997
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/949,836
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: LOUISE A. FOUTCH
REGISTRATION NUMBER: 37,133
REFERENCE/DOCKET NUMBER: 1946.6
TELECOMMUNICATION INFORMATION:
TELEPHONE: 813-538-3800
TELEFAX: 813-538-3820
TELEX:

INFORMATION FOR SEQ ID NO: 160:

SEQUENCE CHARACTERISTICS:
LENGTH: 20 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-08-934-915-160

Query Match 100.0%; Score 48; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.022;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Cy 1 VYCKQQLLR 9
Db 7 VYCKQQLLR 15

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RESULT 3
US-09-701-080C-18
; Sequence 18, Application US/09701080C
; Patent No. 6864054
; GENERAL INFORMATION:
; APPLICANT: INSTITUTE OF MOLECULAR AND CELL BIOLOGY
; TITLE OF INVENTION: POLYPEPTIDES FROM CREB BINDING PROTEIN AND RELATED PROTEIN P300 F
; FILE REFERENCE: N73477C GCM
; CURRENT APPLICATION NUMBER: US/09/701,080C
; CURRENT FILING DATE: 2001-02-27
; PRIOR APPLICATION NUMBER: GB 9811303.8
; PRIOR FILING DATE: 1998-05-26
; PRIOR APPLICATION NUMBER: GB 9900157.0
; PRIOR FILING DATE: 1999-01-05
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 18
; LENGTH: 151
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-09-701-080C-18

Query Match          100.0%; Score 48; DB 2; Length 151;
Best Local Similarity 100.0%; Pred. No. 0.15;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 VYCKQQLLR 9
Db 31 VYCKQQLLR 39

RESULT 4
US-09-980-523A-2
; Sequence 2, Application US/09980523A
; Patent No. 6783763
; GENERAL INFORMATION:
; APPLICANT: CHOPPIN, JEANNINE
; APPLICANT: BOURGAULT VILADA, ISABELLE
; APPLICANT: GUILLET, JEAN-GERARD
; APPLICANT: CONNAN, FRANCINE
; APPLICANT: FERRIES, ESTELLE
; TITLE OF INVENTION: POLYPEPTIC PROTEIN FRAGMENTS OF THE E6 AND E7
; TITLE OF INVENTION: PROTEINS OF HPV, THEIR PRODUCTION AND THEIR USE
; TITLE OF INVENTION: PARTICULARLY IN VACCINATION
; FILE REFERENCE: WO81 AO INS
; CURRENT APPLICATION NUMBER: US/09/980,523A
; CURRENT FILING DATE: 2002-04-29
; PRIOR APPLICATION NUMBER: PCT/FR00/01513
; PRIOR FILING DATE: 2000-05-31
; PRIOR APPLICATION NUMBER: FR 99/07012
; PRIOR FILING DATE: 1999-06-03
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
; LENGTH: 158
; TYPE: PRT
; ORGANISM: Human Papillomavirus
US-09-980-523A-2

Query Match          100.0%; Score 48; DB 2; Length 158;
Best Local Similarity 100.0%; Pred. No. 0.16;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 VYCKQQLLR 9
Db 38 VYCKQQLLR 46

RESULT 5
US-08-316-239B-3
; Sequence 3, Application US/08316239B
```

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; Patent No. 5679509
; GENERAL INFORMATION:
; APPLICANT: Wheeler, Cosette M.
; APPLICANT: Parmeter, Cheryl A.
; TITLE OF INVENTION: Methods and a Diagnostic Aid for
; TITLE OF INVENTION: Distinguishing a Subset of HPV that is Associated with an
; TITLE OF INVENTION: Increased Risk of Developing Cervical Dysplasia and
; TITLE OF INVENTION: Cervical Cancer
; NUMBER OF SEQUENCES: 4
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Jagtiani & Associates
; STREET: 6126 Rocky Way Court
; CITY: Centreville
; STATE: VA
; COUNTRY: USA
; ZIP: 20120-3400
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; APPLICATION NUMBER: US/08/316,239B
; FILING DATE: 30-SEP-1994
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Jagtiani, Ajay A.
; REGISTRATION NUMBER: 35,205
; REFERENCE/DOCKET NUMBER: UNMB-0001
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (703) 817-9453
; TELEFAX: (703) 803-9387
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 162 amino acids
; TYPE: amino acid
; STRANDNESS: not relevant
; TOPOLOGY: not relevant
; MOLECULE TYPE: protein
; HYDROTHERICAL: NO
US-08-316-239B-3

Query Match          100.0%; Score 48; DB 1; Length 162;
Best Local Similarity 100.0%; Pred. No. 0.16;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 VYCKQQLLR 9
Db 38 VYCKQQLLR 46

RESULT 6
US-08-316-239B-4
; Sequence 4, Application US/08316239B
; Patent No. 5679509
; GENERAL INFORMATION:
; APPLICANT: Wheeler, Cosette M.
; APPLICANT: Parmeter, Cheryl A.
; TITLE OF INVENTION: Methods and a Diagnostic Aid for
; TITLE OF INVENTION: Distinguishing a Subset of HPV that is Associated with an
; TITLE OF INVENTION: Increased Risk of Developing Cervical Dysplasia and
; NUMBER OF SEQUENCES: 4
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Jagtiani & Associates
; STREET: 6126 Rocky Way Court
; CITY: Centreville
; STATE: VA
; COUNTRY: USA
; ZIP: 20120-3400
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
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; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/316,239B
; FILING DATE: 30-SEP-1994
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Jagtiani, Ajay A.
; REGISTRATION NUMBER: 35,205
; REFERENCE/DOCKET NUMBER: UNME-0001
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (703) 817-9453
; TELEFAX: (703) 803-9387
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 162 amino acids
; TYPE: amino acid
; STRANDEDNESS: not relevant
; TOPOLOGY: not relevant
; MOLECULE TYPE: protein
; HYPOTHEICAL: NO
;
US-08-316-239B-4
;
Query Match 100.0%; Score 48; DB 1; Length 162;
Best Local Similarity 100.0%; Pred. No. 0.16;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 VYCKQQLLR 9
Db 38 VYCKQQLLR 46

RESULT 7
US-08-860-165-14
; Sequence 14, Application US/08860165A
; Patent No. 6004557
; GENERAL INFORMATION:
; APPLICANT: EDWARDS, Stirling John
; APPLICANT: COX, John Cooper
; APPLICANT: WEBB, Elizabeth Ann
; TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
; FILE REFERENCE: 17227/130
; CURRENT APPLICATION NUMBER: US/08/860,165A
; CURRENT FILING DATE: 1997-09-22
; EARLIER APPLICATION NUMBER: PCT/AU95/00868
; EARLIER FILING DATE: 1995-12-20
; EARLIER APPLICATION NUMBER: AU PNO157
; EARLIER FILING DATE: 1994-12-20
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 14
; LENGTH: 172
; TYPE: PRT
; ORGANISM: Artificial Sequence
; OTHER INFORMATION: Description of Artificial Sequence: Gene Fusion
;
US-08-860-165-14
;
Query Match 100.0%; Score 48; DB 2; Length 172;
Best Local Similarity 100.0%; Pred. No. 0.17;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 VYCKQQLLR 9
Db 107 VYCKQQLLR 115

RESULT 8
US-09-359-382-14
; Sequence 14, Application US/09359382
; Patent No. 6306397
; GENERAL INFORMATION:
```

```

; APPLICANT: EDWARDS, Stirling John
; APPLICANT: COX, John Cooper
; APPLICANT: WEBB, Elizabeth Ann
; APPLICANT: FRAZER, Ian
; TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
; FILE REFERENCE: 017227/0148
; CURRENT APPLICATION NUMBER: US/09/359,382
; CURRENT FILING DATE: 1999-07-23
; EARLIER APPLICATION NUMBER: US 08/860,165
; EARLIER FILING DATE: 1997-09-22
; EARLIER APPLICATION NUMBER: PCT/AU95/00868
; EARLIER FILING DATE: 1995-12-20
; EARLIER APPLICATION NUMBER: AU PNO157/94
; EARLIER FILING DATE: 1994-12-20
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 14
; LENGTH: 172
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
;
US-09-359-382-14
;
Query Match 100.0%; Score 48; DB 2; Length 172;
Best Local Similarity 100.0%; Pred. No. 0.17;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 VYCKQQLLR 9
Db 107 VYCKQQLLR 115

RESULT 9
US-08-117-083-10
; Sequence 10, Application US/08117083
; Patent No. 5719054
; GENERAL INFORMATION:
; APPLICANT: Boursnell, Michael E.
; APPLICANT: Inglis, Stephen C.
; APPLICANT: Munro, Alan J.
; TITLE OF INVENTION: Recombinant Virus Vectors Encoding Human
; TITLE OF INVENTION: Papilloma Virus Proteins
; NUMBER OF SEQUENCES: 70
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Walter H. Dregger
; STREET: 4 Embarcadero Center, Suite 3400
; CITY: San Francisco
; STATE: CA
; COUNTRY: USA
; ZIP: 94111
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/117,083
; FILING DATE: 10-SEP-1993
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Dregger, Walter H.
; REGISTRATION NUMBER: 24,190
; REFERENCE/DOCKET NUMBER: A-58783
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 415-781-1989
; TELEFAX: 415-398-3249
; TELEX: 910 277299
; INFORMATION FOR SEQ ID NO: 10:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 182 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
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FEATURE:
NAME/KEY: Protein
LOCATION: 1..182
OTHER INFORMATION: /note="Xaa refers to stop codon in
OTHER INFORMATION: the open reading frame."
US-08-117-083-10

Query Match 100.0%; Score 48; DB 1; Length 182;
Best Local Similarity 100.0%; Pred. No. 0.18;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 VYCKQQLLR 9
|||
Db 39 VYCKQQLLR 47

RESULT 10
US-09-462-993-1
Sequence 1, Application US/09462993
Patent No. 6884786
GENERAL INFORMATION:
APPLICANT: KIENY, Marie-Paule
APPLICANT: BALLOU, Jean-Marc
APPLICANT: BIZOUANE, Nadine
TITLE OF INVENTION: ANTITUMORAL COMPOSITION BASED ON IMMUNOGENIC
FILE REFERENCE: 017753-122
CURRENT APPLICATION NUMBER: US/09/462,993
CURRENT FILING DATE: 2000-04-17
PRIOR APPLICATION NUMBER: PCT/FR98/01576
PRIOR FILING DATE: 1998-07-17
PRIOR APPLICATION NUMBER: FR 97/09152
PRIOR FILING DATE: 1997-07-18
NUMBER OF SEQ ID NOS: 23
SOFTWARE: PatentIn Ver. 2.2
SEQ ID NO 1
LENGTH: 243
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Derived from
OTHER INFORMATION: human papillomavirus, strain HPV-16, E6 protein
OTHER INFORMATION: fused F protein signals, clone E6+TMF.
US-09-462-993-1

Query Match 100.0%; Score 48; DB 2; Length 243;
Best Local Similarity 100.0%; Pred. No. 0.24;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 VYCKQQLLR 9
|||
Db 66 VYCKQQLLR 74

RESULT 11
US-08-860-165-10
Sequence 10, Application US/08860165A
Patent No. 6004557
GENERAL INFORMATION:
APPLICANT: EDWARDS, Scirling John
APPLICANT: COX, John Cooper
APPLICANT: WEBB, Elizabeth Ann
APPLICANT: FRAZER, Ian
TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
FILE REFERENCE: 17227/130
CURRENT APPLICATION NUMBER: US/08/860,165A
CURRENT FILING DATE: 1997-09-22
PRIOR APPLICATION NUMBER: PCT/AU95/00868
PRIOR FILING DATE: 1995-12-20
PRIOR APPLICATION NUMBER: AU PNO157
PRIOR FILING DATE: 1994-12-20
NUMBER OF SEQ ID NOS: 15
SOFTWARE: PatentIn Ver. 2.0

SEQ ID NO 10
LENGTH: 266
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Gene Fusion
US-08-860-165-10

Query Match 100.0%; Score 48; DB 2; Length 266;
Best Local Similarity 100.0%; Pred. No. 0.26;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 VYCKQQLLR 9
|||
Db 38 VYCKQQLLR 46

RESULT 12
US-09-359-382-10
Sequence 10, Application US/09359382
Patent No. 6306397
GENERAL INFORMATION:
APPLICANT: EDWARDS, Scirling John
APPLICANT: COX, John Cooper
APPLICANT: WEBB, Elizabeth Ann
APPLICANT: FRAZER, Ian
TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
FILE REFERENCE: 017227/0148
CURRENT APPLICATION NUMBER: US/09/359,382
CURRENT FILING DATE: 1999-07-23
PRIOR APPLICATION NUMBER: US 08/860,165
PRIOR FILING DATE: 1997-09-22
PRIOR APPLICATION NUMBER: PCT/AU95/00868
PRIOR FILING DATE: 1995-12-20
PRIOR APPLICATION NUMBER: AU PNO157/94
PRIOR FILING DATE: 1994-12-20
NUMBER OF SEQ ID NOS: 27
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 10
LENGTH: 266
TYPE: PRT
ORGANISM: Human papillomavirus type 16
US-09-359-382-10

Query Match 100.0%; Score 48; DB 2; Length 266;
Best Local Similarity 100.0%; Pred. No. 0.26;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 VYCKQQLLR 9
|||
Db 38 VYCKQQLLR 46

RESULT 13
US-09-367-309A-1
Sequence 1, Application US/09367309A
Patent No. 6428807
GENERAL INFORMATION:
APPLICANT: MACFARLAN, RODERICK I.
APPLICANT: MALIAROS, JIM
TITLE OF INVENTION: CHELATING IMMUNOSTIMULATING COMPLEXES
FILE REFERENCE: 017227/0149
CURRENT APPLICATION NUMBER: US/09/367,309A
CURRENT FILING DATE: 1999-08-11
PRIOR APPLICATION NUMBER: PCT/AU98/00080
PRIOR FILING DATE: 1998-02-13
PRIOR APPLICATION NUMBER: AU PO 5178
PRIOR FILING DATE: 1997-02-19
NUMBER OF SEQ ID NOS: 6
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 1
LENGTH: 266
TYPE: PRT

ORGANISM: Human papillomavirus type 16
US-09-367-309A-1

Query Match 100.0%; Score 48; DB 2; Length 266;
Best Local Similarity 100.0%; Pred. No. 0.26;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 VYCKQQLLR 9
Db 38 VYCKQQLLR 46

RESULT 14
US-09-485-885-4
Sequence 4, Application US/09485885
Patent No. 6342224
GENERAL INFORMATION:
APPLICANT: Bruck, Claudine
APPLICANT: Cabazon Silva, Teresa
APPLICANT: Delisse, Anne-Marie Eva Fernande
APPLICANT: Gerard, Catherine Marie Ghislaine
APPLICANT: Lombardo-Bencheikh, Angela
TITLE OF INVENTION: Vaccine
FILE REFERENCE: B45107
CURRENT APPLICATION NUMBER: US/09/485,885
CURRENT FILING DATE: 2000-02-18
PRIOR APPLICATION NUMBER: PCT/EP98/05285
PRIOR FILING DATE: 1998-08-17
PRIOR APPLICATION NUMBER: GB 9717953.5
PRIOR FILING DATE: 1997-08-22
NUMBER OF SEQ ID NOS: 23
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 4
LENGTH: 273
TYPE: PRT
ORGANISM: Homo sapien
US-09-485-885-4

Query Match 100.0%; Score 48; DB 2; Length 273;
Best Local Similarity 100.0%; Pred. No. 0.27;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 VYCKQQLLR 9
Db 144 VYCKQQLLR 152

RESULT 15
US-09-485-885-10
Sequence 10, Application US/09485885
Patent No. 6342224
GENERAL INFORMATION:
APPLICANT: Bruck, Claudine
APPLICANT: Cabazon Silva, Teresa
APPLICANT: Delisse, Anne-Marie Eva Fernande
APPLICANT: Gerard, Catherine Marie Ghislaine
APPLICANT: Lombardo-Bencheikh, Angela
TITLE OF INVENTION: Vaccine
FILE REFERENCE: B45107
CURRENT APPLICATION NUMBER: US/09/485,885
CURRENT FILING DATE: 2000-02-18
PRIOR APPLICATION NUMBER: PCT/EP98/05285
PRIOR FILING DATE: 1998-08-17
PRIOR APPLICATION NUMBER: GB 9717953.5
PRIOR FILING DATE: 1997-08-22
NUMBER OF SEQ ID NOS: 23
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 10
LENGTH: 292
TYPE: PRT
ORGANISM: Homo sapien
US-09-485-885-10

Query Match 100.0%; Score 48; DB 2; Length 292;
Best Local Similarity 100.0%; Pred. No. 0.28;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 VYCKQQLLR 9
Db 163 VYCKQQLLR 171

RESULT 16
US-09-485-885-6
Sequence 6, Application US/09485885
Patent No. 6342224
GENERAL INFORMATION:
APPLICANT: Bruck, Claudine
APPLICANT: Cabazon Silva, Teresa
APPLICANT: Delisse, Anne-Marie Eva Fernande
APPLICANT: Gerard, Catherine Marie Ghislaine
APPLICANT: Lombardo-Bencheikh, Angela
TITLE OF INVENTION: Vaccine
FILE REFERENCE: B45107
CURRENT APPLICATION NUMBER: US/09/485,885
CURRENT FILING DATE: 2000-02-18
PRIOR APPLICATION NUMBER: PCT/EP98/05285
PRIOR FILING DATE: 1998-08-17
PRIOR APPLICATION NUMBER: GB 9717953.5
PRIOR FILING DATE: 1997-08-22
NUMBER OF SEQ ID NOS: 23
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 6
LENGTH: 371
TYPE: PRT
ORGANISM: Homo sapien
US-09-485-885-6

Query Match 100.0%; Score 48; DB 2; Length 371;
Best Local Similarity 100.0%; Pred. No. 0.36;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 VYCKQQLLR 9
Db 144 VYCKQQLLR 152

RESULT 17
US-09-485-885-14
Sequence 14, Application US/09485885
Patent No. 6342224
GENERAL INFORMATION:
APPLICANT: Bruck, Claudine
APPLICANT: Cabazon Silva, Teresa
APPLICANT: Delisse, Anne-Marie Eva Fernande
APPLICANT: Gerard, Catherine Marie Ghislaine
APPLICANT: Lombardo-Bencheikh, Angela
TITLE OF INVENTION: Vaccine
FILE REFERENCE: B45107
CURRENT APPLICATION NUMBER: US/09/485,885
CURRENT FILING DATE: 2000-02-18
PRIOR APPLICATION NUMBER: PCT/EP98/05285
PRIOR FILING DATE: 1998-08-17
PRIOR APPLICATION NUMBER: GB 9717953.5
PRIOR FILING DATE: 1997-08-22
NUMBER OF SEQ ID NOS: 23
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 14
LENGTH: 390
TYPE: PRT
ORGANISM: Homo sapien
US-09-485-885-14

Query Match 100.0%; Score 48; DB 2; Length 390;
Best Local Similarity 100.0%; Pred. No. 0.37;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 1 VYCKQQLLR 9
|||
Db 163 VYCKQQLLR 171

RESULT 18
US-08-159-339A-238
Sequence 238, Application US/08159339A
Patent No. 6037135
GENERAL INFORMATION:
APPLICANT: Kubo, Ralph T.
APPLICANT: Grey, Howard M.
APPLICANT: Sette, Alessandro
APPLICANT: Sette, Alessandro
APPLICANT: Cells, Esteban
TITLE OF INVENTION: HLA Binding peptides and Their
TITLE OF INVENTION: Uses
NUMBER OF SEQUENCES: 1254
CORRESPONDENCE ADDRESSES:
ADDRESSEE: Townsend and Townsend and Crew LLP
STREET: Two Embarcadero Center, Eighth Floor
CITY: San Francisco
STATE: CA
COUNTRY: USA
ZIP: 94111-3834
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSeq for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/159,339A
FILING DATE: 29-NOV-1993
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/926,666
FILING DATE: 07-AUG-1992
APPLICATION NUMBER: US 08/027,746
FILING DATE: 05-MAR-1993
APPLICATION NUMBER: US 08/103,396
FILING DATE: 06-AUG-1993
ATTORNEY/AGENT INFORMATION:
NAME: Weber, Ellen Lauver
REGISTRATION NUMBER: 32,762
REFERENCE/DOCKET NUMBER: 018623-005030US
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 576-0200
TELEFAX: (415) 576-0300
TELEX:
INFORMATION FOR SEQ ID NO: 238:
SEQUENCE CHARACTERISTICS:
LENGTH: 9 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULAR TYPE: peptide
US-08-159-339A-238

Query Match 81.2%; Score 39; DB 2; Length 9;
Best Local Similarity 88.9%; Pred. No. 4.6e+05;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Oy 1 VYCKQQLLR 9
|||
Db 1 VYCKQQLLR 9

RESULT 19
US-08-159-339A-253
Sequence 253, Application US/08159339A
Patent No. 6037135
GENERAL INFORMATION:
APPLICANT: Kubo, Ralph T.

APPLICANT: Grey, Howard M.
APPLICANT: Sette, Alessandro
APPLICANT: Cells, Esteban
TITLE OF INVENTION: HLA Binding peptides and Their
TITLE OF INVENTION: Uses
NUMBER OF SEQUENCES: 1254
CORRESPONDENCE ADDRESSES:
ADDRESSEE: Townsend and Townsend and Crew LLP
STREET: Two Embarcadero Center, Eighth Floor
CITY: San Francisco
STATE: CA
COUNTRY: USA
ZIP: 94111-3834
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSeq for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/159,339A
FILING DATE: 29-NOV-1993
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/926,666
FILING DATE: 07-AUG-1992
APPLICATION NUMBER: US 08/027,746
FILING DATE: 05-MAR-1993
APPLICATION NUMBER: US 08/103,396
FILING DATE: 06-AUG-1993
ATTORNEY/AGENT INFORMATION:
NAME: Weber, Ellen Lauver
REGISTRATION NUMBER: 32,762
REFERENCE/DOCKET NUMBER: 018623-005030US
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 576-0200
TELEFAX: (415) 576-0300
TELEX:
INFORMATION FOR SEQ ID NO: 253:
SEQUENCE CHARACTERISTICS:
LENGTH: 9 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULAR TYPE: peptide
US-08-159-339A-253

Query Match 81.2%; Score 39; DB 2; Length 9;
Best Local Similarity 88.9%; Pred. No. 4.6e+05;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Oy 1 VYCKQQLLR 9
|||
Db 1 VYCKQQLLR 9

RESULT 20
US-09-980-523A-4
Sequence 4, Application US/09980523A
Patent No. 6783763
GENERAL INFORMATION:
APPLICANT: CHOPPIN, JEANNINE
APPLICANT: BOURGAULT VILADA, ISABELLE
APPLICANT: GUILLET, JEAN-GERARD
APPLICANT: CONNAN, FRANCES
APPLICANT: FERRIES, ESTELLE
TITLE OF INVENTION: POLYPEPTIC PROTEIN FRAGMENTS OF THE E6 AND E7
TITLE OF INVENTION: PROTEINS OF HPV, THEIR PRODUCTION AND THEIR USE
TITLE OF INVENTION: PARTICULARLY IN VACCINATION
FILE REFERENCE: WO/1 AO INS
CURRENT APPLICATION NUMBER: US/09/980,523A
CURRENT FILING DATE: 2002-04-29
PRIOR APPLICATION NUMBER: PCT/FR00/01513
PRIOR FILING DATE: 2000-05-31

PRIOR APPLICATION NUMBER: FR 99/07012
PRIOR FILING DATE: 1999-06-03
NUMBER OF SEQ ID NOS: 24
SOFTWARE: Patentin Ver. 2.1
SEQ ID NO 4
LENGTH: 30
TYPE: PRT
ORGANISM: Human Papillomavirus
US-09-980-523A-4

Query Match 81.2%; Score 39; DB 2; Length 30;
Best Local Similarity 100.0%; Pred. No. 1.5;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 VYCKQQLR 7
Db 24 VYCKQQL 30

RESULT 21
US-09-448-806C-6
Sequence 6, Application US/09448806C
Patent No. 6335169
GENERAL INFORMATION:
APPLICANT: Dai, Wei
APPLICANT: Ouyang, Bin
APPLICANT: Pan, Huiqi
TITLE OF INVENTION: Nucleic Acids Encoding Hbub1, A Cell Cycle Checkpoint Gene
FILE REFERENCE: 91830/619
CURRENT APPLICATION NUMBER: US/09/448,806C
CURRENT FILING DATE: 1999-11-24
PRIOR APPLICATION NUMBER: U.S. Provisional Application No. 6335169 60/110,218
PRIOR FILING DATE: 1998-11-30
NUMBER OF SEQ ID NOS: 9
SOFTWARE: Microsoft Word
SEQ ID NO 6
LENGTH: 78
TYPE: PRT
ORGANISM: Homo sapiens; Eukaryota; Animalia; Metazoa; Chordata; Vertebrata; Mammalia;
FEATURE:
NAME/KEY: peptide
LOCATION: 212...289
US-09-448-806C-6

Query Match 75.0%; Score 36; DB 2; Length 78;
Best Local Similarity 55.6%; Pred. No. 13;
Matches 5; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

Qy 1 VYCKQQLR 9
Db 25 MYCKEKILR 33

RESULT 22
US-09-095-881-2
Sequence 2, Application US/09095881
Patent No. 6489137
GENERAL INFORMATION:
APPLICANT: Seeley, Todd
TITLE OF INVENTION: DETECTION OF LOSS OF THE WILD-TYPE
FILE REFERENCE: 1405.003 / 200130.437
CURRENT APPLICATION NUMBER: US/09/095,881
CURRENT FILING DATE: 1998-06-11
NUMBER OF SEQ ID NOS: 15
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 2
LENGTH: 1085
TYPE: PRT
ORGANISM: Homo sapien
US-09-095-881-2

Query Match 75.0%; Score 36; DB 2; Length 1085;
Best Local Similarity 55.6%; Pred. No. 1.6e+02;
Matches 5; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

Qy 1 VYCKQQLR 9
Db 236 MYCKEKILR 244

RESULT 23
US-09-555-554-4
Sequence 4, Application US/09555554
Patent No. 6591098
GENERAL INFORMATION:
APPLICANT: Yen, Timothy J.
APPLICANT: Chan, Gordon
APPLICANT: Jablonski, Sandra
TITLE OF INVENTION: No. 6593098e1 Genes Encoding Proteins Involved
TITLE OF INVENTION: in Mitotic Checkpoint Control and Methods of Use Thereof
FILE REFERENCE: FCCC 97-12
CURRENT APPLICATION NUMBER: US/09/555,554
CURRENT FILING DATE: 2000-06-01
PRIOR APPLICATION NUMBER: PCT/US98/25415
PRIOR FILING DATE: 1998-12-01
NUMBER OF SEQ ID NOS: 13
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 4
LENGTH: 1095
TYPE: PRT
ORGANISM: Homo sapiens
US-09-555-554-4

Query Match 75.0%; Score 36; DB 2; Length 1095;
Best Local Similarity 55.6%; Pred. No. 1.6e+02;
Matches 5; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

Qy 1 VYCKQQLR 9
Db 236 MYCKEKILR 244

RESULT 24
US-08-159-339A-226
Sequence 226, Application US/08159339A
Patent No. 6037135
GENERAL INFORMATION:
APPLICANT: Kubo, Ralph T.
APPLICANT: Grey, Howard M.
APPLICANT: Sette, Alessandro
APPLICANT: Celis, Børrehan
TITLE OF INVENTION: HLA Binding peptides and Their
TITLE OF INVENTION: Uses
NUMBER OF SEQUENCES: 1254
CORRESPONDENCE ADDRESSES:
ADDRESSEE: Townsend and Townsend and Crew LLP
STREET: Two Embarcadero Center, Eighth Floor
CITY: San Francisco
STATE: CA
COUNTRY: USA
ZIP: 94111-3834
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSeq for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/159,339A
FILING DATE: 29-NOV-1993
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/926,666
FILING DATE: 07-AUG-1992
APPLICATION NUMBER: US 08/027,746

FILING DATE: 05-MAR-1993
APPLICATION NUMBER: US 08/103,396
FILING DATE: 06-AUG-1993
ATTORNEY/AGENT INFORMATION:
NAME: Weber, Ellen Lauver
REGISTRATION NUMBER: 32,762
REFERENCE/DOCKET NUMBER: 018623-005030US
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 576-0200
TELEFAX: (415) 576-0300
TELEX:
INFORMATION FOR SEQ ID NO: 226:
SEQUENCE CHARACTERISTICS:
LENGTH: 9 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-08-159-339A-226

Query Match 70.8%; Score 34; DB 2; Length 9;
Best Local Similarity 87.5%; Pred. No. 4.6e+05;
Matches 7; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 VYCKQQL 8
|||
Db 2 VYAKQQL 9

RESULT 25
US-09-252-991A-31270
Sequence 31270, Application US/09252991A
Patent No. 6551795
GENERAL INFORMATION:
APPLICANT: Marc J. Rubenfield et al.
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
TITLE OF INVENTION: AERUDINOSA FOR DIAGNOSTICS AND THERAPEUTICS
FILE REFERENCE: 107196.136
CURRENT APPLICATION NUMBER: US/09/252,991A
CURRENT FILING DATE: 1999-02-18
PRIOR APPLICATION NUMBER: US 60/074,788
PRIOR FILING DATE: 1998-02-18
PRIOR APPLICATION NUMBER: US 60/094,190
PRIOR FILING DATE: 1998-07-27
NUMBER OF SEQ ID NOS: 33142
SEQ ID NO 31270
LENGTH: 80
TYPE: PRT
ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-31270

Query Match 70.8%; Score 34; DB 2; Length 80;
Best Local Similarity 55.6%; Pred. No. 32;
Matches 5; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 1 VYCKQQL 9
|||
Db 64 LYCRDPLK 72

RESULT 26
US-09-134-001C-4260
Sequence 4260, Application US/09134001C
Patent No. 6380370
GENERAL INFORMATION:
APPLICANT: Lynn Doucette-Stamm et al
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO STAPHYLOCOCCUS
TITLE OF INVENTION: EPIDERMIDIS FOR DIAGNOSTICS AND THERAPEUTICS
FILE REFERENCE: GTC-007
CURRENT APPLICATION NUMBER: US/09/134,001C
CURRENT FILING DATE: 1998-08-13
PRIOR APPLICATION NUMBER: US 60/064,964
PRIOR FILING DATE: 1997-11-08

PRIOR APPLICATION NUMBER: US 60/055,779
PRIOR FILING DATE: 1997-08-14
NUMBER OF SEQ ID NOS: 5674
SEQ ID NO 4260
LENGTH: 156
TYPE: PRT
ORGANISM: Staphylococcus epidermidis
US-09-134-001C-4260

Query Match 70.8%; Score 34; DB 2; Length 156;
Best Local Similarity 44.4%; Pred. No. 60;
Matches 4; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

QY 1 VYCKQQL 9
|||
Db 123 IYCEQEP 131

RESULT 27
US-09-270-767-37306
Sequence 37306, Application US/09270767
Patent No. 6703491
GENERAL INFORMATION:
APPLICANT: Homburger et al.
TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
FILE REFERENCE: File Reference: 7326-094
CURRENT APPLICATION NUMBER: US/09/270,767
CURRENT FILING DATE: 1999-03-17
NUMBER OF SEQ ID NOS: 62517
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 37306
LENGTH: 334
TYPE: PRT
ORGANISM: Drosophila melanogaster
FEATURE:
OTHER INFORMATION: Xaa means any amino acid
US-09-270-767-37306

Query Match 70.8%; Score 34; DB 2; Length 334;
Best Local Similarity 75.0%; Pred. No. 1.2e+02;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 VYCKQQL 8
|||
Db 61 VYCEQXL 68

RESULT 28
US-09-270-767-52523
Sequence 52523, Application US/09270767
Patent No. 6703491
GENERAL INFORMATION:
APPLICANT: Homburger et al.
TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
FILE REFERENCE: File Reference: 7326-094
CURRENT APPLICATION NUMBER: US/09/270,767
CURRENT FILING DATE: 1999-03-17
NUMBER OF SEQ ID NOS: 62517
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 52523
LENGTH: 334
TYPE: PRT
ORGANISM: Drosophila melanogaster
FEATURE:
OTHER INFORMATION: Xaa means any amino acid
US-09-270-767-52523

Query Match 70.8%; Score 34; DB 2; Length 334;
Best Local Similarity 75.0%; Pred. No. 1.2e+02;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 VYCKQQL 8
|||

```
Db          61 VYCEQOXL 68

RESULT 29
US-10-729-121-17
; Sequence 17, Application US/10729121
; Patent No. 6907887
; GENERAL INFORMATION:
; APPLICANT: Conkling, Mark
; TITLE OF INVENTION: MODIFYING NICOTINE AND NITROSAMINE
; FILE REFERENCE: VTOB.033CI
; CURRENT APPLICATION NUMBER: US/10/729,121
; PRIOR FILING DATE: 2003-12-04
; PRIOR APPLICATION NUMBER: 60/297,154
; PRIOR FILING DATE: 2001-06-08
; PRIOR APPLICATION NUMBER: PCTUS02/18040
; NUMBER OF SEQ ID NOS: 58
; SOFTWARE: PasteSeq for Windows Version 4.0
; SEQ ID NO 17
; LENGTH: 28
; TYPE: PRT
; ORGANISM: Saccharomyces cerevisiae
US-10-729-121-17

Query Match          68.8%; Score 33; DB 2; Length 28;
Best Local Similarity 62.5%; Pred. No. 18;
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY          1 VYCKQQL 8
Db          17 LYCKQDML 24

RESULT 30
US-09-270-767-61003
; Sequence 61003, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
; APPLICANT: Homburger et al.
; TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
; FILE REFERENCE: File Reference: 7326-094
; CURRENT APPLICATION NUMBER: US/09/270,767
; CURRENT FILING DATE: 1999-03-17
; NUMBER OF SEQ ID NOS: 62517
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 61003
; LENGTH: 91
; TYPE: PRT
; ORGANISM: Drosophila melanogaster
US-09-270-767-61003

Query Match          68.8%; Score 33; DB 2; Length 91;
Best Local Similarity 62.5%; Pred. No. 55;
Matches 5; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY          1 VYCKQQL 8
Db          17 LYCKQQL 24

RESULT 31
US-09-270-767-45494
; Sequence 45494, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
; APPLICANT: Homburger et al.
; TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
; FILE REFERENCE: File Reference: 7326-094
; CURRENT APPLICATION NUMBER: US/09/270,767
; CURRENT FILING DATE: 1999-03-17
; NUMBER OF SEQ ID NOS: 62517
```

```
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 45494
; LENGTH: 274
; TYPE: PRT
; ORGANISM: Drosophila melanogaster
; FEATURE:
; OTHER INFORMATION: Xaa means any amino acid
US-09-270-767-45494

Query Match          68.8%; Score 33; DB 2; Length 274;
Best Local Similarity 62.5%; Pred. No. 1.6e+02;
Matches 5; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY          1 VYCKQQL 8
Db          17 LYCKQQL 24

RESULT 32
US-09-134-000C-4139
; Sequence 4139, Application US/09134000C
; Patent No. 6617156
; GENERAL INFORMATION:
; APPLICANT: Lynn Doucette-Stamm et al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO
; FILE REFERENCE: 032796-032
; CURRENT APPLICATION NUMBER: US/09/134,000C
; CURRENT FILING DATE: 1998-08-13
; PRIOR FILING DATE: 1997-08-15
; NUMBER OF SEQ ID NOS: 60/055,778
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 4139
; LENGTH: 383
; TYPE: PRT
; ORGANISM: Enterococcus faecalis
US-09-134-000C-4139

Query Match          68.8%; Score 33; DB 2; Length 383;
Best Local Similarity 71.4%; Pred. No. 2.2e+02;
Matches 5; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY          2 VYCKQQL 8
Db          110 YCKQQL 116

RESULT 33
US-09-902-540-12632
; Sequence 12632, Application US/09902540
; Patent No. 6833447
; GENERAL INFORMATION:
; APPLICANT: Goldman, Barry S.
; APPLICANT: Hinkle, Gregory J.
; APPLICANT: Slater, Steven C.
; APPLICANT: Wiegand, Roger C.
; TITLE OF INVENTION: Myxococcus xanthus Genome Sequences and Uses Thereof
; FILE REFERENCE: 38-10(15849)B
; CURRENT APPLICATION NUMBER: US/09/902,540
; CURRENT FILING DATE: 2001-07-10
; PRIOR APPLICATION NUMBER: 60/217,883
; PRIOR FILING DATE: 2000-07-10
; NUMBER OF SEQ ID NOS: 16825
; SEQ ID NO 12632
; LENGTH: 490
; TYPE: PRT
; ORGANISM: Myxococcus xanthus
US-09-902-540-12632

Query Match          68.8%; Score 33; DB 2; Length 490;
Best Local Similarity 66.7%; Pred. No. 2.7e+02;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;
```

Oy 1 YCKQQLR 9
|||:|
Db 109 YVCWELLR 117

RESULT 34
US-09-107-532A-7248

; Sequence 7248, Application US/09107532A
; Patent No. 6583275

; GENERAL INFORMATION:

; APPLICANT: Lynn A Doucette-Stamm and David Bush
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO
; ENTEROCOCCUS FAECIUM FOR DIAGNOSTICS AND THERAPEUTICS

; NUMBER OF SEQUENCES: 7310

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: GENOME THERAPEUTICS CORPORATION
; STREET: 100 Beaver Street
; CITY: Waltham
; STATE: Massachusetts
; COUNTRY: USA

; ZIP: 02354

; COMPUTER READABLE FORM:
; MEDIUM TYPE: CD-ROM ISO9660

; COMPUTER: PC
; OPERATING SYSTEM: <Unknown>
; SOFTWARE: ASCII

; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/107,532A

; FILING DATE: 30-Jun-1998

; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 60/085,598

; FILING DATE: 14 May 1998

; APPLICATION NUMBER: 60/051571

; FILING DATE: July 2, 1997

; ATTORNEY/AGENT INFORMATION:
; NAME: Arinello, Pamela Deneke

; REGISTRATION NUMBER: 40,489

; REFERENCE/DOCKET NUMBER: GTC-012

; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (781)893-5007

; TELEFAX: (781)893-8277

; INFORMATION FOR SEQ ID NO: 7248:
; SEQUENCE CHARACTERISTICS:

; LENGTH: 512 amino acids
; TYPE: amino acid
; TOPOLOGY: linear

; MOLECULE TYPE: protein
; HYPOTHETICAL: YES
; ORIGINAL SOURCE:

; ORGANISM: Enterococcus faecium
; FEATURE:
; NAME/KEY: msc feature
; LOCATION: (B) LOCATION 1...512

; SEQUENCE DESCRIPTION: SEQ ID NO: 7248:
US-09-107-532A-7248

Query Match 68.8%; Score 33; DB 2; Length 512;
Best Local Similarity 71.4%; Pred. No. 2.9e+02;
Matches 5; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Oy 2 YCKQQLR 8
|||:|
Db 242 YCKQQLR 248

RESULT 35
US-08-369-822C-10

; Sequence 10, Application US/08369822C
; Patent No. 6015660

; GENERAL INFORMATION:

; APPLICANT: Lipkin, W. I.
; APPLICANT: Briese, Thomas

; APPLICANT: Kliche, Stefanie
; APPLICANT: Schneider, Patrick A.
; APPLICANT: Stitz, Lothar
; APPLICANT: Schneemann, Anette
; TITLE OF INVENTION: Borna Disease Viral Sequences,
; TITLE OF INVENTION: Diagnostics and Therapeutics for Central Nervous
; TITLE OF INVENTION: System Diseases

; NUMBER OF SEQUENCES: 46

; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fulbright & Jaworski, L.L.P.
; STREET: 865 South Figueroa Street, 29th Floor
; CITY: Los Angeles
; STATE: California
; COUNTRY: USA

; ZIP: 90017-2571

; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: WINDOWS NT-WORDPERFECT 8.0

; SOFTWARE: ASCII (DOS) TEXT

; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/369,822C

; FILING DATE: 06-JAN-1995

; CLASSIFICATION: 435

; ATTORNEY/AGENT INFORMATION:
; NAME: Churchill, Margaret A. (Ph.D.)

; REGISTRATION NUMBER: 39,944

; REFERENCE/DOCKET NUMBER: 1279-194XX

; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 213/892-9200

; TELEFAX: 213/680-4518

; INFORMATION FOR SEQ ID NO: 10:
; SEQUENCE CHARACTERISTICS:

; LENGTH: 1711 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: unknown

; MOLECULE TYPE: protein
US-08-369-822C-10

Query Match 68.8%; Score 33; DB 2; Length 1711;
Best Local Similarity 55.6%; Pred. No. 8.9e+02;
Matches 5; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

Oy 1 YCKQQLR 9
|||:|
Db 1040 YVCQETLR 1048

RESULT 36
US-08-582-776C-10
; Sequence 10, Application US/08582776C
; Patent No. 6077510

; GENERAL INFORMATION:

; APPLICANT: Lipkin, W. I.
; APPLICANT: Briese, Thomas

; APPLICANT: Kliche, Stefanie
; APPLICANT: Schneider, Patrick A.

; APPLICANT: Stitz, Lothar
; APPLICANT: Schneemann, Anette

; TITLE OF INVENTION: Borna Disease Viral Sequences,
; TITLE OF INVENTION: Diagnostics and Therapeutics for Central Nervous
; TITLE OF INVENTION: System Diseases

; NUMBER OF SEQUENCES: 61

; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fulbright & Jaworski, L.L.P.
; STREET: 865 South Figueroa Street, 29th Floor
; CITY: Los Angeles
; STATE: California
; COUNTRY: USA

; ZIP: 90017-2576

; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk

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COMPUTER: IBM PC compatible
OPERATING SYSTEM: WINDOWS NT
SOFTWARE: ASCII DOS TEXT
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/582,776C
FILING DATE: 04-JAN-1996
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/369,822
FILING DATE: 06-JAN-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/434,831
FILING DATE: 04-MAY-1995
ATTORNEY/AGENT INFORMATION:
NAME: Churchill, Margaret A.
REGISTRATION NUMBER: 39,944
REFERENCE/DOCKET NUMBER: 1279-194C2
TELECOMMUNICATION INFORMATION:
TELEPHONE: 213/680-9200
TELEFAX: 213/680-4518
INFORMATION FOR SEQ ID NO: 10:
SEQUENCE CHARACTERISTICS:
LENGTH: 1711 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: unknown
MOLECULE TYPE: protein
US-08-582-776C-10

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Query Match      68.8%; Score 33; DB 2; Length 1711;
Best Local Similarity 55.6%; Pred. No. 8.9e+02;
Matches 5; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

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QY      1 VYCKQQLR 9
      |||:|
Db      1040 IYCPQETLR 1048

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RESULT 37
US-08-434-831B-10
Sequence 10, Application US/08434831B
Patent No. 6113905
GENERAL INFORMATION:
APPLICANT: Lipkin, W. I.
APPLICANT: Brisse, Thomas
APPLICANT: Kliche, Stefanie
APPLICANT: Schneider, Patrick A.
APPLICANT: Stitz, Lothar
APPLICANT: Schneemann, Anette
TITLE OF INVENTION: Borna Disease Viral Sequences,
TITLE OF INVENTION: Diagnostics and Therapeutics for Central Nervous
NUMBER OF INVENTION: System Diseases
NUMBER OF SEQUENCES: 59
CORRESPONDENCE ADDRESSES:
ADDRESS: Pulbright & Jaworski, L.L.P.
STREET: 865 South Figueroa Street, 28th Floor
CITY: Los Angeles
STATE: California
COUNTRY: USA
ZIP: 90017-2571
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: WINDOWS NT-WORDPERFECT 8.0
SOFTWARE: ASCII (DOS) TEXT
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/434,831B
FILING DATE: 04-MAY-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/369,822
FILING DATE: 06-JAN-1995
ATTORNEY/AGENT INFORMATION:

```

```

NAME: Churchill, Margaret A. (Ph.D.)
REGISTRATION NUMBER: 39,944
REFERENCE/DOCKET NUMBER: 1279-194C1
TELECOMMUNICATION INFORMATION:
TELEPHONE: 213/680-9200
TELEFAX: 213/680-4518
INFORMATION FOR SEQ ID NO: 10:
SEQUENCE CHARACTERISTICS:
LENGTH: 1711 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: unknown
MOLECULE TYPE: protein
US-08-434-831B-10

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```

Query Match      68.8%; Score 33; DB 2; Length 1711;
Best Local Similarity 55.6%; Pred. No. 8.9e+02;
Matches 5; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

```

```

QY      1 VYCKQQLR 9
      |||:|
Db      1040 IYCPQETLR 1048

```

```

RESULT 38
US-09-248-796A-24263
Sequence 24263, Application US/09248796A
Patent No. 6747137
GENERAL INFORMATION:
APPLICANT: Keith Weinstock et al
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDA ALBICANS
TITLE OF INVENTION: FOR DIAGNOSTICS AND THERAPEUTICS
FILE REFERENCE: 107196.132
CURRENT APPLICATION NUMBER: US/09/248,796A
CURRENT FILING DATE: 1999-02-12
PRIOR APPLICATION NUMBER: US 60/074,725
PRIOR FILING DATE: 1998-02-13
PRIOR APPLICATION NUMBER: US 60/096,409
PRIOR FILING DATE: 1998-08-13
NUMBER OF SEQ ID NOS: 28208
SEQ ID NO 24263
LENGTH: 65
TYPE: PRT
ORGANISM: Candida albicans
US-09-248-796A-24263

```

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Query Match      66.7%; Score 32; DB 2; Length 65;
Best Local Similarity 71.4%; Pred. No. 62;
Matches 5; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

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```

QY      3 CKQQLR 9
      |||:|
Db      1 CROQLR 7

```

```

RESULT 39
US-09-270-767-45456
Sequence 45456, Application US/09270767
Patent No. 6703491
GENERAL INFORMATION:
APPLICANT: Homburger et al.
TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
FILE REFERENCE: File Reference: 7326-094
CURRENT APPLICATION NUMBER: US/09/270,767
CURRENT FILING DATE: 1999-03-17
NUMBER OF SEQ ID NOS: 62517
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 45456
LENGTH: 67
TYPE: PRT
ORGANISM: Drosophila melanogaster
US-09-270-767-45456

```

Query Match 66.7%; Score 32; DB 2; Length 67;
Best Local Similarity 62.5%; Pred. No. 63;
Matches 5; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 2 YCKOQLR 9
|||
Db 15 YCKSHLR 22

RESULT 40
US-09-270-767-59962
; Sequence 59962, Application US/09270767

; Patent No. 6703491
; GENERAL INFORMATION:
; APPLICANT: Homburger et al.
; TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
; FILE REFERENCE: File Reference: 7326-094
; CURRENT APPLICATION NUMBER: US/09/270,767
; CURRENT FILING DATE: 1999-03-17
; NUMBER OF SEQ ID NOS: 62517
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 59962
; LENGTH: 102
; TYPE: PRT
; ORGANISM: Drosophila melanogaster
US-09-270-767-59962

Query Match 66.7%; Score 32; DB 2; Length 102;
Best Local Similarity 66.7%; Pred. No. 95;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 YVCKOQLR 9
|||
Db 13 VHCIOQLK 21

RESULT 41
US-09-270-767-40624
; Sequence 40624, Application US/09270767

; Patent No. 6703491
; GENERAL INFORMATION:
; APPLICANT: Homburger et al.
; TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
; FILE REFERENCE: File Reference: 7326-094
; CURRENT APPLICATION NUMBER: US/09/270,767
; CURRENT FILING DATE: 1999-03-17
; NUMBER OF SEQ ID NOS: 62517
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 40624
; LENGTH: 149
; TYPE: PRT
; ORGANISM: Drosophila melanogaster
; FEATURE:
; OTHER INFORMATION: Xaa means any amino acid
US-09-270-767-40624

Query Match 66.7%; Score 32; DB 2; Length 149;
Best Local Similarity 100.0%; Pred. No. 1.4e+02;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3 CKOQL 8
|||
Db 58 CKOQL 63

RESULT 42
US-09-270-767-55840
; Sequence 55840, Application US/09270767

; Patent No. 6703491
; GENERAL INFORMATION:
; APPLICANT: Homburger et al.
; TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
; FILE REFERENCE: File Reference: 7326-094

; CURRENT APPLICATION NUMBER: US/09/270,767
; CURRENT FILING DATE: 1999-03-17

; NUMBER OF SEQ ID NOS: 62517
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 55840
; LENGTH: 149
; TYPE: PRT
; ORGANISM: Drosophila melanogaster
; FEATURE:
; OTHER INFORMATION: Xaa means any amino acid
US-09-270-767-55840

Query Match 66.7%; Score 32; DB 2; Length 149;
Best Local Similarity 100.0%; Pred. No. 1.4e+02;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3 CKOQL 8
|||
Db 58 CKOQL 63

RESULT 43
US-09-270-767-44514
; Sequence 44514, Application US/09270767

; Patent No. 6703491
; GENERAL INFORMATION:
; APPLICANT: Homburger et al.
; TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
; FILE REFERENCE: File Reference: 7326-094
; CURRENT APPLICATION NUMBER: US/09/270,767
; CURRENT FILING DATE: 1999-03-17
; NUMBER OF SEQ ID NOS: 62517
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 44514
; LENGTH: 239
; TYPE: PRT
; ORGANISM: Drosophila melanogaster
US-09-270-767-44514

Query Match 66.7%; Score 32; DB 2; Length 239;
Best Local Similarity 66.7%; Pred. No. 2.1e+02;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 YVCKOQLR 9
|||
Db 150 VHCIOQLK 158

RESULT 44
US-09-489-039A-9670
; Sequence 9670, Application US/09489039A

; Patent No. 6610836
; GENERAL INFORMATION:
; APPLICANT: Gary Breton et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO KLEBSIELLA
; FILE REFERENCE: PNEUMONIAE FOR DIAGNOSTICS AND THERAPEUTICS
; CURRENT APPLICATION NUMBER: US/09/489,039A
; CURRENT FILING DATE: 2000-01-27
; PRIOR APPLICATION NUMBER: US 60/117,747
; PRIOR FILING DATE: 1999-01-29
; NUMBER OF SEQ ID NOS: 14342
; SEQ ID NO 9670
; LENGTH: 276
; TYPE: PRT
; ORGANISM: Klebsiella pneumoniae
US-09-489-039A-9670

Query Match 66.7%; Score 32; DB 2; Length 276;
Best Local Similarity 62.5%; Pred. No. 2.4e+02;
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 2 YCKOQLR 9

Db 2 YCROQVLR 9

```
RESULT 45
US-09-248-796A-24285
; Sequence 24285, Application US/09248796A
; Patent No. 6747137
; GENERAL INFORMATION:
; APPLICANT: Keith Weinstock et al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDA ALBICANS
; FILE REFERENCE: 107196.132
; CURRENT APPLICATION NUMBER: US/09/248,796A
; PRIOR FILING DATE: 1999-02-12
; PRIOR APPLICATION NUMBER: US 60/074,725
; PRIOR FILING DATE: 1998-02-13
; PRIOR APPLICATION NUMBER: US 60/096,409
; PRIOR FILING DATE: 1998-08-13
; NUMBER OF SEQ ID NOS: 28208
; SEQ ID NO 24285
; LENGTH: 347
; TYPE: PRT
; ORGANISM: Candida albicans
; FEATURE:
; NAME/KEY: UNSURE
; LOCATION: (75)
; OTHER INFORMATION: Identity of amino acid sequences at the above locations are unknown
US-09-248-796A-24285
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Query Match Best Local Similarity 66.7%; Score 32; DB 2; Length 347;
Matches 5; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 2 YCROQL 8
Db 21 YCROQL 27

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RESULT 46
US-09-949-016-7164
; Sequence 7164, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; FILE REFERENCE: C1001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; PRIOR FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 7164
; LENGTH: 789
; TYPE: PRT
; ORGANISM: Human
US-09-949-016-7164
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Query Match Best Local Similarity 66.7%; Score 32; DB 2; Length 789;
Matches 5; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 2 YCROQL 7
Db 384 YCROQL 389

```
RESULT 47
US-09-949-016-5878
; Sequence 5878, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; FILE REFERENCE: C1001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; PRIOR FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 5878
; LENGTH: 1500
; TYPE: PRT
; ORGANISM: Human
US-09-949-016-5878
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Query Match Best Local Similarity 66.7%; Score 32; DB 2; Length 1500;
Matches 5; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 2 YCROQL 7
Db 1095 YCROQL 1100

```
RESULT 48
US-09-248-796A-27748
; Sequence 27748, Application US/09248796A
; Patent No. 6747137
; GENERAL INFORMATION:
; APPLICANT: Keith Weinstock et al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDA ALBICANS
; FILE REFERENCE: 107196.132
; CURRENT APPLICATION NUMBER: US/09/248,796A
; PRIOR FILING DATE: 1999-02-12
; PRIOR APPLICATION NUMBER: US 60/074,725
; PRIOR FILING DATE: 1998-02-13
; PRIOR APPLICATION NUMBER: US 60/096,409
; PRIOR FILING DATE: 1998-08-13
; NUMBER OF SEQ ID NOS: 28208
; SEQ ID NO 27748
; LENGTH: 60
; TYPE: PRT
; ORGANISM: Candida albicans
US-09-248-796A-27748
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Query Match Best Local Similarity 64.6%; Score 31; DB 2; Length 60;
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 YCROQL 8
Db 19 YCROQL 26

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RESULT 49
US-09-025-151-27
; Sequence 27, Application US/09025151
; Patent No. 6187535
; GENERAL INFORMATION:
; APPLICANT: Legrain, Pierre
; APPLICANT: Fromont, Micheline
; APPLICANT: Rain, Jean-Christophe
```



```

; TITLE OF INVENTION: FAST AND EXHAUSTIVE METHOD FOR SELECTING A PREY
; TITLE OF INVENTION: POLYPEPTIDE INTERACTING WITH A BAIT POLYPEPTIDE OF
; TITLE OF INVENTION: INTEREST: APPLICATION TO THE CONSTRUCTION OF MAPS OF
; TITLE OF INVENTION: INTERACTORS POLYPEPTIDES
; FILE REFERENCE: 03495-0164
; CURRENT APPLICATION NUMBER: US/09/025,151
; CURRENT FILING DATE: 1998-02-18
; NUMBER OF SEQ ID NOS: 29
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 27
; LENGTH: 67
; TYPE: PRT
; ORGANISM: Saccharomyces cerevisiae
US-09-025-151-27

```

```

Query Match          64.6%; Score 31; DB 2; Length 67;
Best Local Similarity 85.7%; Pred. No. 97;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

```

```

Qy      3 CKQQLLR 9
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Db      47 CKAQLLR 53

```

```

RESULT 50
US-09-637-240-27
; Sequence 27, Application US/09637240
; Patent No. 6531284
; GENERAL INFORMATION:
; APPLICANT: Legrain, Pierre
; APPLICANT: Fromont, Micheline
; APPLICANT: Rain, Jean-Christophe
; TITLE OF INVENTION: FAST AND EXHAUSTIVE METHOD FOR SELECTING A PREY
; TITLE OF INVENTION: POLYPEPTIDE INTERACTING WITH A BAIT POLYPEPTIDE OF
; TITLE OF INVENTION: INTEREST: APPLICATION TO THE CONSTRUCTION OF MAPS OF
; TITLE OF INVENTION: INTERACTORS POLYPEPTIDES
; FILE REFERENCE: 03495-0164
; CURRENT APPLICATION NUMBER: US/09/637,240
; CURRENT FILING DATE: 2000-06-14
; PRIOR APPLICATION NUMBER: 09/025,151
; PRIOR FILING DATE: 1998-02-18
; NUMBER OF SEQ ID NOS: 29
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 27
; LENGTH: 67
; TYPE: PRT
; ORGANISM: Saccharomyces cerevisiae
US-09-637-240-27

```

```

Query Match          64.6%; Score 31; DB 2; Length 67;
Best Local Similarity 85.7%; Pred. No. 97;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

```

```

Qy      3 CKQQLLR 9
      |||||
Db      47 CKAQLLR 53

```

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Job time : 24.8 secs

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GenCore version 5.1.7
Copyright (c) 1993 - 2006 Bioacceleration Ltd.

OM protein - protein search, using SW model

Run on: May 5, 2006, 07:44:45 ; Search time 55.9 Seconds
(without alignments)
67.271 Million cell updates/sec

Title: US-08-170-344-42
Perfect score: 48
Sequence: 1 VYCKQQLR 9

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1867569 seqs, 417829326 residues
Total number of hits satisfying chosen parameters: 1867569

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 1000 summaries

Database : Published Applications_AA_Main:*

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- 2: /cgn2_6/ptodata/1/pubppa/US08_PUBCOMB.dep:*
- 3: /cgn2_6/ptodata/1/pubppa/US09_PUBCOMB.dep:*
- 4: /cgn2_6/ptodata/1/pubppa/US10A_PUBCOMB.dep:*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	48	100.0	10	5	US-10-484-063-3
2	48	100.0	15	4	US-10-476-570-25
3	48	100.0	21	4	US-10-476-570-10
4	48	100.0	33	4	US-10-476-570-19
5	48	100.0	151	4	US-10-177-390-6
6	48	100.0	151	5	US-10-484-063-20
7	48	100.0	151	5	US-10-484-063-27
8	48	100.0	158	5	US-10-858-384-2
9	48	100.0	158	5	US-10-367-057-16
10	48	100.0	158	6	US-11-021-949-13
11	48	100.0	171	4	US-10-472-724-2
12	48	100.0	243	6	US-11-072-288-1
13	48	100.0	266	3	US-09-367-309A-1
14	48	100.0	273	4	US-10-000-903-4
15	48	100.0	273	5	US-10-899-771-4
16	48	100.0	292	4	US-10-000-903-10
17	48	100.0	292	5	US-10-899-771-10
18	48	100.0	371	4	US-10-000-903-6
19	48	100.0	371	5	US-10-899-771-6
20	48	100.0	390	4	US-10-000-903-14
21	48	100.0	390	5	US-10-899-771-14
22	48	100.0	536	4	US-10-367-095-10
23	48	100.0	536	4	US-10-368-046-10
24	48	100.0	536	4	US-10-367-367-10
25	48	100.0	536	5	US-10-918-337-10
26	43	89.6	15	4	US-10-476-570-24
27	43	89.6	32	4	US-10-476-570-9

28	39	81.2	30	4	US-10-476-570-53	Sequence 53, Appl
29	39	81.2	149	5	US-10-858-384-4	Sequence 4, Appl
30	39	81.2	149	6	US-11-021-949-14	Sequence 14, Appl
31	38	79.2	145	4	US-10-425-115-199640	Sequence 199640,
32	38	79.2	670	5	US-10-631-467-863	Sequence 863, App
33	38	79.2	690	5	US-10-631-467-862	Sequence 862, App
34	38	79.2	690	5	US-10-972-024-236	Sequence 236, App
35	37	77.1	68	4	US-10-425-115-306231	Sequence 306231,
36	36	75.0	151	6	US-11-021-949-24	Sequence 24, Appl
37	36	75.0	151	6	US-11-021-949-25	Sequence 25, Appl
38	36	75.0	155	6	US-11-021-949-32	Sequence 32, Appl
39	36	75.0	1085	3	US-09-095-881-2	Sequence 2, Appl
40	36	75.0	1085	4	US-10-084-700-4	Sequence 4, Appl
41	36	75.0	1085	4	US-10-263-929-137	Sequence 37, App
42	36	75.0	1085	5	US-10-733-878-373	Sequence 138, App
43	36	75.0	1102	4	US-10-263-929-138	Sequence 215341,
44	36	75.0	1547	4	US-10-425-115-21541	Sequence 290415,
45	35	72.9	69	4	US-10-425-115-190415	Sequence 35, Appl
46	35	72.9	111	5	US-10-450-186-35	Sequence 35, Appl
47	35	72.9	148	6	US-11-021-949-359	Sequence 31, Appl
48	35	72.9	162	6	US-11-021-949-31	Sequence 1366, Ap
49	35	72.9	354	5	US-10-733-923-1366	Sequence 214, App
50	35	72.9	414	3	US-09-759-1308-214	Sequence 214, App
51	35	72.9	414	4	US-10-741-790-214	Sequence 314031,
52	35	72.9	525	4	US-10-425-115-314031	Sequence 205, App
53	35	72.9	753	3	US-09-759-1308-205	Sequence 205, App
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59	35	72.9	1414	4	US-10-425-115-214489	Sequence 214489,
60	35	72.9	1620	4	US-10-425-115-215534	Sequence 215534,
61	35	72.9	1687	4	US-10-425-115-216539	Sequence 216539,
62	35	72.9	119	4	US-10-767-701-32284	Sequence 32284, A
63	34	70.8	156	4	US-10-724-972A-3796	Sequence 3796, Ap
64	34	70.8	159	4	US-10-425-115-291117	Sequence 291117,
65	34	70.8	346	4	US-10-425-115-291117	Sequence 56138, A
66	34	70.8	708	5	US-10-450-763-56138	Sequence 58760, A
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74	33	68.8	115	4	US-10-425-115-242952	Sequence 357960,
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77	33	68.8	184	4	US-10-425-115-265505	Sequence 71493, A
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96	32	66.7	153	6	US-11-021-949-20	Sequence 345129,
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ALIGNMENTS

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RESULT 1
US-10-484-063-3
; Sequence 3, Application US/10484063
; Publication No. US20050048467A1
; GENERAL INFORMATION:
; APPLICANT: SASSTRY, K. JAGANNADHA
; APPLICANT: TORTOLERO-LUNA, GUILLERMO
; APPLICANT: FOLLEN, MICHELLE
; TITLE OF INVENTION: METHODS AND COMPOSITIONS RELATING TO HPV-ASSOCIATED
; TITLE OF INVENTION: PRE-CANCEROUS AND CANCEROUS GROWTHS, INCLUDING CIN
; FILE REFERENCE: UTSC:56005
; CURRENT APPLICATION NUMBER: US/10/484, 063
; CURRENT FILING DATE: 2004-01-16
; PRIOR APPLICATION NUMBER: PCT/US02/23198
; PRIOR FILING DATE: 2002-07-19
; PRIOR APPLICATION NUMBER: 60/306,809
; PRIOR FILING DATE: 2001-07-20
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: Patentn Ver. 2.1
; SEQ ID NO 3
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-484-063-3

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Best Local Similarity 100.0%; Pred. No. 0.066;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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; APPLICANT: GUILLET, Jean-Gerard
; TITLE OF INVENTION: Mixture of peptides derived from E6 and/or E7
; TITLE OF INVENTION: Papillomavirus proteins and uses thereof
; FILE REFERENCE: 45636-5071-US
; CURRENT APPLICATION NUMBER: US/10/476, 570
; CURRENT FILING DATE: 2003-11-04
; PRIOR APPLICATION NUMBER: PCT/FR02/01533
; PRIOR FILING DATE: 2002-05-03
; PRIOR APPLICATION NUMBER: FR 01 05980
; PRIOR FILING DATE: 2001-05-04
; NUMBER OF SEQ ID NOS: 63
; SOFTWARE: Patentn Ver. 2.1
; SEQ ID NO 25
; LENGTH: 15
; TYPE: PRT
; ORGANISM: artificial sequence
; FEATURE:
; OTHER INFORMATION: Description of the artificial sequence: peptide E6 36-50
US-10-476-570-25

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RESULT 3
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; Sequence 10, Application US/10476570
; Publication No. US20040170644A1
; GENERAL INFORMATION:
; APPLICANT: COMMISSARIAT A L'ENERGIE ATOMIQUE
; APPLICANT: INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE
; APPLICANT: MAILLIERE, Bernard
; APPLICANT: BOURGAULT-VILLADA, Isabelle
; APPLICANT: POUVELLE-MORATILLE, Sandra
; APPLICANT: GUILLET, Jean-Gerard
; TITLE OF INVENTION: Mixture of peptides derived from E6 and/or E7
; TITLE OF INVENTION: Papillomavirus proteins and uses thereof
; FILE REFERENCE: 45636-5071-US
; CURRENT APPLICATION NUMBER: US/10/476, 570
; CURRENT FILING DATE: 2003-11-04
; PRIOR APPLICATION NUMBER: PCT/FR02/01533
; PRIOR FILING DATE: 2002-05-03
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; APPLICANT: COMMISSARIAT A L'ENERGIE ATOMIQUE
; APPLICANT: INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE
; APPLICANT: MAILLIERE, Bernard
; APPLICANT: BOURGAULT-VILLADA, Isabelle
; APPLICANT: POUEVILLE-MORATILLE, Sandra
; APPLICANT: GUILLET, Jean-Gerard
; TITLE OF INVENTION: Mixture of peptides derived from E6 and/or E7
; FILE REFERENCE: 45636-5071-US
; CURRENT APPLICATION NUMBER: US/10/476,570
; PRIOR FILING DATE: 2003-11-04
; PRIOR APPLICATION NUMBER: PCT/FR02/01533
; PRIOR FILING DATE: 2002-05-03
; PRIOR APPLICATION NUMBER: FR 01 05980
; PRIOR FILING DATE: 2001-05-04
; NUMBER OF SEQ ID NOS: 63
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 19
; LENGTH: 33
; TYPE: PRT
; ORGANISM: artificial sequence
; FEATURE:
; OTHER INFORMATION: Description of the artificial sequence: peptide E6 14-46
US-10-476-570-19

Query Match          100.0%; Score 48; DB 4; Length 33;
Best Local Similarity 100.0%; Pred. No. 0.2;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 VYCKQQLLR 9
   |||||
Db 25 VYCKQQLLR 33

RESULT 5
US-10-177-390-6
; Sequence 6, Application US/10177390
; Publication No. US20030143743A1
; GENERAL INFORMATION:
; APPLICANT: Schuler, Gerold
; APPLICANT: N.V. Antwerp Innovatiecentrum
; TITLE OF INVENTION: Improved Transfection of Eucaryotic Cells with Linear
; FILE REFERENCE: 021505wo/JH/ml
; CURRENT APPLICATION NUMBER: US/10/177,390
; CURRENT FILING DATE: 2002-06-20
; NUMBER OF SEQ ID NOS: 34
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 6
; LENGTH: 151
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-10-177-390-6

Query Match          100.0%; Score 48; DB 4; Length 151;
Best Local Similarity 100.0%; Pred. No. 0.83;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 VYCKQQLLR 9
   |||||
Db 31 VYCKQQLLR 39

RESULT 6
US-10-484-063-20
; Sequence 20, Application US/10484063
; Publication No. US20050048467A1
; GENERAL INFORMATION:
; APPLICANT: SASTRY, K. JAGANNADHA
; APPLICANT: TORTOLERO-LUNA, GUILLEMO
; APPLICANT: FOLLEN, MICHELE
; TITLE OF INVENTION: METHODS AND COMPOSITIONS RELATING TO HPV-ASSOCIATED
; FILE REFERENCE: PRE-CANCEROUS AND CANCEROUS GROWTHS, INCLUDING CIN
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; FILE REFERENCE: UTSC:560US
; CURRENT APPLICATION NUMBER: US/10/484,063
; CURRENT FILING DATE: 2004-01-16
; PRIOR APPLICATION NUMBER: PCT/US02/23198
; PRIOR FILING DATE: 2002-07-19
; PRIOR APPLICATION NUMBER: 60/306,809
; PRIOR FILING DATE: 2001-07-20
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 20
; LENGTH: 151
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-484-063-20

Query Match          100.0%; Score 48; DB 5; Length 151;
Best Local Similarity 100.0%; Pred. No. 0.83;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 VYCKQQLLR 9
   |||||
Db 31 VYCKQQLLR 39

RESULT 7
US-10-484-063-27
; Sequence 27, Application US/10484063
; Publication No. US20050048467A1
; GENERAL INFORMATION:
; APPLICANT: SASTRY, K. JAGANNADHA
; APPLICANT: TORTOLERO-LUNA, GUILLEMO
; APPLICANT: FOLLEN, MICHELE
; TITLE OF INVENTION: METHODS AND COMPOSITIONS RELATING TO HPV-ASSOCIATED
; FILE REFERENCE: UTSC:560US
; CURRENT APPLICATION NUMBER: US/10/484,063
; CURRENT FILING DATE: 2004-01-16
; PRIOR APPLICATION NUMBER: PCT/US02/23198
; PRIOR FILING DATE: 2002-07-19
; PRIOR APPLICATION NUMBER: 60/306,809
; PRIOR FILING DATE: 2001-07-20
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 27
; LENGTH: 151
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-10-484-063-27

Query Match          100.0%; Score 48; DB 5; Length 151;
Best Local Similarity 100.0%; Pred. No. 0.83;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 VYCKQQLLR 9
   |||||
Db 31 VYCKQQLLR 39

RESULT 8
US-10-858-384-2
; Sequence 2, Application US/10858384
; Publication No. US2005003025A1
; GENERAL INFORMATION:
; APPLICANT: CHOPPIN, JEANNINE
; APPLICANT: BOURGAULT VILLADA, ISABELLE
; APPLICANT: GUILLET, JEAN-GERARD
; APPLICANT: CONNAN, FRANCES
; APPLICANT: FERRIES, ESTELLE
; TITLE OF INVENTION: POLYPEPTIDIC PROTEIN FRAGMENTS OF THE E6 PROTEIN
; TITLE OF INVENTION: OR E7 OF HPV, THEIR PRODUCTION AND THEIR USE
; FILE REFERENCE: 0508-1037-1
; CURRENT APPLICATION NUMBER: US/10/858,384
```

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; CURRENT FILING DATE: 2004-06-02
; PRIOR APPLICATION NUMBER: FR 9907012
; PRIOR FILING DATE: 1999-06-03
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: Patentln Ver. 3.2
; SEQ ID NO 2
; LENGTH: 158
; TYPE: PRT
; ORGANISM: Human Papillomavirus
US-10-858-384-2

Query Match      100.0%; Score 48; DB 5; Length 158;
Best Local Similarity 100.0%; Pred. No. 0.87;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 VYCKQQLLR 9
Db      38 VYCKQQLLR 46

RESULT 9
US-10-367-057-16
; Sequence 16, Application US/10367057
; Publication No. US20050100554A1
; GENERAL INFORMATION:
; APPLICANT: Cuthill, Scott;
; APPLICANT: Jackson, Amanda;
; APPLICANT: Lewin, David A.;
; APPLICANT: Ooi, Chean Eng
; TITLE OF INVENTION: Complexes and Methods of Using Same
; FILE REFERENCE: 21402-559
; CURRENT APPLICATION NUMBER: US/10/367,057
; CURRENT FILING DATE: 2003-02-14
; PRIOR APPLICATION NUMBER: 60/256,911
; PRIOR FILING DATE: 2002-02-14
; NUMBER OF SEQ ID NOS: 198
; SOFTWARE: Curaseqdist version 0.1
; SEQ ID NO 16
; LENGTH: 158
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-367-057-16

Query Match      100.0%; Score 48; DB 5; Length 158;
Best Local Similarity 100.0%; Pred. No. 0.87;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 VYCKQQLLR 9
Db      38 VYCKQQLLR 46

RESULT 10
US-11-021-949-13
; Sequence 13, Application US/11021949
; Publication No. US20050142541A1
; GENERAL INFORMATION:
; APPLICANT: LU, PETER
; APPLICANT: GARMAN, JONATHAN DAVID
; APPLICANT: BELMARES, MICHAEL P.
; APPLICANT: DIAZ-SARMIENTO, CHAMORRO SOMOZA
; APPLICANT: SCHWEIZER, JOHANNES
; TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
; FILE REFERENCE: VITA-012
; CURRENT APPLICATION NUMBER: US/11/021,949
; CURRENT FILING DATE: 2004-12-23
; PRIOR APPLICATION NUMBER: 60/532,373
; PRIOR FILING DATE: 2003-12-23
; NUMBER OF SEQ ID NOS: 361
; SOFTWARE: Fastseq for Windows Version 4.0
; SEQ ID NO 13
; LENGTH: 158

; TYPE: PRT
; ORGANISM: human papilloma virus (HPV)
US-11-021-949-13

Query Match      100.0%; Score 48; DB 6; Length 158;
Best Local Similarity 100.0%; Pred. No. 0.87;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 VYCKQQLLR 9
Db      38 VYCKQQLLR 46

RESULT 11
US-10-472-724-2
; Sequence 2, Application US/10472724
; Publication No. US20040171806A1
; GENERAL INFORMATION:
; APPLICANT: Zur Hausen, Harald
; APPLICANT: Zur Hausen, Angel
; TITLE OF INVENTION: Modified HPV E6 and E7 genes and proteins useful for vaccination
; FILE REFERENCE: 4121-154
; CURRENT APPLICATION NUMBER: US/10/472,724
; CURRENT FILING DATE: 2003-09-17
; PRIOR APPLICATION NUMBER: PCT/EP02/03271
; PRIOR FILING DATE: 2002-03-22
; PRIOR APPLICATION NUMBER: EP 01107271.7
; PRIOR FILING DATE: 2001-03-23
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: Patentln version 3.2
; SEQ ID NO 2
; LENGTH: 171
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Construct
US-10-472-724-2

Query Match      100.0%; Score 48; DB 4; Length 171;
Best Local Similarity 100.0%; Pred. No. 0.93;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 VYCKQQLLR 9
Db      43 VYCKQQLLR 51

RESULT 12
US-11-072-288-1
; Sequence 1, Application US/11072288
; Publication No. US20050159386A1
; GENERAL INFORMATION:
; APPLICANT: KIENY, Marie-Paule
; APPLICANT: BALLOUT, Jean-Marc
; APPLICANT: BIZOUARNE, Nadine
; TITLE OF INVENTION: ANTITUMORAL COMPOSITION BASED ON IMMUNOGENIC
; FILE REFERENCE: 01753-122
; CURRENT APPLICATION NUMBER: US/11/072,288
; CURRENT FILING DATE: 2005-03-07
; PRIOR APPLICATION NUMBER: US/09/462,993
; PRIOR FILING DATE: 2000-04-17
; PRIOR APPLICATION NUMBER: PCT/FR98/01576
; PRIOR FILING DATE: 1998-07-17
; PRIOR APPLICATION NUMBER: FR 97/09152
; PRIOR FILING DATE: 1997-07-18
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: Patentln Ver. 2.2
; SEQ ID NO 1
; LENGTH: 243
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
```

OTHER INFORMATION: Description of Artificial Sequence:Derived from
OTHER INFORMATION: human papillomavirus, strain HPV-16, E6 protein
OTHER INFORMATION: fused F protein signals, clone E6*TMF.
US-11-072-288-1

Query Match 100.0%; Score 48; DB 6; Length 243;
Best Local Similarity 100.0%; Pred. No. 1.3;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 VYCKQQLLR 9
Db 66 VYCKQQLLR 74

RESULT 13
US-09-367-309A-1
Sequence 1, Application US/09367309A.
Publication No. US20020081329A1
GENERAL INFORMATION:
APPLICANT: MACFARLAN, RODERICK I.
APPLICANT: MALLIAROS, JIM
TITLE OF INVENTION: CHEATING IMMUNOSTIMULATING COMPLEXES
FILE REFERENCE: 017227/0149
CURRENT APPLICATION NUMBER: US/09/367,309A
PRIOR FILING DATE: 1999-08-11
PRIOR APPLICATION NUMBER: PCT/AU98/00080
PRIOR FILING DATE: 1998-02-13
PRIOR APPLICATION NUMBER: AU PO 5178
PRIOR FILING DATE: 1997-02-19
NUMBER OF SEQ ID NOS: 6
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 1
LENGTH: 266
TYPE: PRT
ORGANISM: Human papillomavirus type 16
US-09-367-309A-1

Query Match 100.0%; Score 48; DB 3; Length 266;
Best Local Similarity 100.0%; Pred. No. 1.4;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 VYCKQQLLR 9
Db 38 VYCKQQLLR 46

RESULT 14
US-10-000-903-4
Sequence 4, Application US/10000903
Publication No. US20020182221A1
GENERAL INFORMATION:
APPLICANT: Bruck, Claudine
APPLICANT: Cabazon Silva, Teresa
APPLICANT: Delisse, Anne-Marie Eva Bernande
APPLICANT: Gerard, Catherine Marie Ghislaine
APPLICANT: Lombardo-Benchetkh, Angela
TITLE OF INVENTION: Vaccine
FILE REFERENCE: B45107
CURRENT APPLICATION NUMBER: US/10/000,903
CURRENT FILING DATE: 2001-10-01
PRIOR APPLICATION NUMBER: PCT/EP98/05285
PRIOR FILING DATE: 1998-08-17
PRIOR APPLICATION NUMBER: GB 9717953.5
PRIOR FILING DATE: 1997-08-22
NUMBER OF SEQ ID NOS: 23
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 4
LENGTH: 273
TYPE: PRT
ORGANISM: Homo sapien
US-10-000-903-4

Query Match 100.0%; Score 48; DB 4; Length 273;

Best Local Similarity 100.0%; Pred. No. 1.4;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 VYCKQQLLR 9
Db 144 VYCKQQLLR 152

RESULT 15
US-10-899-771-4
Sequence 4, Application US/10899771
Publication No. US20050031638A1
GENERAL INFORMATION:
APPLICANT: Dalemans, Wilfried L.J.
APPLICANT: Gerard, Catherine Marie Ghislaine
TITLE OF INVENTION: Compositions Comprising Human Papilloma Virus Proteins
TITLE OF INVENTION: and Fusion Proteins Adjuvanted with a CpG Oligonucleotide
FILE REFERENCE: B45124
CURRENT APPLICATION NUMBER: US/10/899,771
CURRENT FILING DATE: 2004-07-27
PRIOR APPLICATION NUMBER: US/09/581,976
PRIOR FILING DATE: 2000-06-20
PRIOR APPLICATION NUMBER: PCT/EP98/08563
PRIOR FILING DATE: 1998-12-18
PRIOR APPLICATION NUMBER: GB 9727262.9
PRIOR FILING DATE: 1997-12-24
NUMBER OF SEQ ID NOS: 28
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 4
LENGTH: 273
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Chimeric protein (protein D from Haemophilus
OTHER INFORMATION: influenzae B and E6 from Human papilloma virus type
OTHER INFORMATION: 16)
US-10-899-771-4

Query Match 100.0%; Score 48; DB 5; Length 273;
Best Local Similarity 100.0%; Pred. No. 1.4;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 VYCKQQLLR 9
Db 144 VYCKQQLLR 152

RESULT 16
US-10-000-903-10
Sequence 10, Application US/10000903
Publication No. US20020182221A1
GENERAL INFORMATION:
APPLICANT: Bruck, Claudine
APPLICANT: Cabazon Silva, Teresa
APPLICANT: Delisse, Anne-Marie Eva Bernande
APPLICANT: Gerard, Catherine Marie Ghislaine
APPLICANT: Lombardo-Benchetkh, Angela
TITLE OF INVENTION: Vaccine
FILE REFERENCE: B45107
CURRENT APPLICATION NUMBER: US/10/000,903
CURRENT FILING DATE: 2001-10-01
PRIOR APPLICATION NUMBER: PCT/EP98/05285
PRIOR FILING DATE: 1998-08-17
PRIOR APPLICATION NUMBER: GB 9717953.5
PRIOR FILING DATE: 1997-08-22
NUMBER OF SEQ ID NOS: 23
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 10
LENGTH: 292
TYPE: PRT
ORGANISM: Homo sapien
US-10-000-903-10

Query Match 100.0%; Score 48; DB 4; Length 292;
Best Local Similarity 100.0%; Pred. No. 1.5;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 VYCKQQLR 9
|||
Db 163 VYCKQQLR 171

RESULT 17
US-10-899-771-10
; Sequence 10, Application US/10899771
; Publication No. US20050031638A1
; GENERAL INFORMATION:
; APPLICANT: Dalemans, Wilfried L.J.
; APPLICANT: Gerard, Catherine Marie Ghislaine
; TITLE OF INVENTION: Compositions Comprising Human Papilloma Virus Proteins
; TITLE OF INVENTION: and Fusion Proteins Adjuvanted with a Cpg Oligonucleotide
; FILE REFERENCE: B45124
; CURRENT APPLICATION NUMBER: US/10/899, 771
; CURRENT FILING DATE: 2004-07-27
; PRIOR APPLICATION NUMBER: US/09/581, 976
; PRIOR FILING DATE: 2000-06-20
; PRIOR APPLICATION NUMBER: PCT/EP98/08563
; PRIOR FILING DATE: 1998-12-18
; PRIOR APPLICATION NUMBER: GB 9727262.9
; PRIOR FILING DATE: 1997-12-24
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 10
; LENGTH: 292
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Chimeric protein (Clyta from Streptococcus
; OTHER INFORMATION: pneumoniae and E6 from Human papilloma virus type
; OTHER INFORMATION: 16)
US-10-899-771-10

Query Match 100.0%; Score 48; DB 5; Length 292;
Best Local Similarity 100.0%; Pred. No. 1.5;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 VYCKQQLR 9
|||
Db 163 VYCKQQLR 171

RESULT 18
US-10-000-903-6
; Sequence 6, Application US/10000903
; Publication No. US20020182221A1
; GENERAL INFORMATION:
; APPLICANT: Bruck, Claudine
; APPLICANT: Cabezon Silva, Teresa
; APPLICANT: Delisse, Anne-Marie Eva Bernande
; APPLICANT: Gerard, Catherine Marie Ghislaine
; APPLICANT: Lombardo-Bencheikh, Angela
; TITLE OF INVENTION: Vaccine
; FILE REFERENCE: B45107
; CURRENT APPLICATION NUMBER: US/10/000, 903
; CURRENT FILING DATE: 2001-10-01
; PRIOR APPLICATION NUMBER: PCT/EP98/05285
; PRIOR FILING DATE: 1998-08-17
; PRIOR APPLICATION NUMBER: GB 9717953.5
; PRIOR FILING DATE: 1997-08-22
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 6
; LENGTH: 371
; TYPE: PRT
; ORGANISM: Homo sapien
US-10-000-903-6

Query Match 100.0%; Score 48; DB 4; Length 371;
Best Local Similarity 100.0%; Pred. No. 1.9;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 VYCKQQLR 9
|||
Db 144 VYCKQQLR 152

RESULT 19
US-10-899-771-6
; Sequence 6, Application US/10899771
; Publication No. US20050031638A1
; GENERAL INFORMATION:
; APPLICANT: Dalemans, Wilfried L.J.
; APPLICANT: Gerard, Catherine Marie Ghislaine
; TITLE OF INVENTION: Compositions Comprising Human Papilloma Virus Proteins
; TITLE OF INVENTION: and Fusion Proteins Adjuvanted with a Cpg Oligonucleotide
; FILE REFERENCE: B45124
; CURRENT APPLICATION NUMBER: US/10/899, 771
; CURRENT FILING DATE: 2004-07-27
; PRIOR APPLICATION NUMBER: US/09/581, 976
; PRIOR FILING DATE: 2000-06-20
; PRIOR APPLICATION NUMBER: PCT/EP98/08563
; PRIOR FILING DATE: 1998-12-18
; PRIOR APPLICATION NUMBER: GB 9727262.9
; PRIOR FILING DATE: 1997-12-24
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 6
; LENGTH: 371
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Chimeric protein (protein D from Haemophilus
; OTHER INFORMATION: influenzae B and E6E7 fusion from Human papilloma
; OTHER INFORMATION: virus type 16)
US-10-899-771-6

Query Match 100.0%; Score 48; DB 5; Length 371;
Best Local Similarity 100.0%; Pred. No. 1.9;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 VYCKQQLR 9
|||
Db 144 VYCKQQLR 152

RESULT 20
US-10-000-903-14
; Sequence 14, Application US/10000903
; Publication No. US20020182221A1
; GENERAL INFORMATION:
; APPLICANT: Bruck, Claudine
; APPLICANT: Cabezon Silva, Teresa
; APPLICANT: Delisse, Anne-Marie Eva Bernande
; APPLICANT: Gerard, Catherine Marie Ghislaine
; APPLICANT: Lombardo-Bencheikh, Angela
; TITLE OF INVENTION: Vaccine
; FILE REFERENCE: B45107
; CURRENT APPLICATION NUMBER: US/10/000, 903
; CURRENT FILING DATE: 2001-10-01
; PRIOR APPLICATION NUMBER: PCT/EP98/05285
; PRIOR FILING DATE: 1998-08-17
; PRIOR APPLICATION NUMBER: GB 9717953.5
; PRIOR FILING DATE: 1997-08-22
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 14
; LENGTH: 390
; TYPE: PRT
; ORGANISM: Homo sapien
US-10-000-903-14

US-10-000-903-14

Query Match 100.0%; Score 48; DB 4; Length 390;
Best Local Similarity 100.0%; Pred. No. 2;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 VYCKQQLLR 9
|||||
Db 163 VYCKQQLLR 171

RESULT 21
US-10-899-771-14
Sequence 14, Application US/10899771
Publication No. US20050031638A1
GENERAL INFORMATION:

APPLICANT: Dalemans, Wilfried L.J.
APPLICANT: Gerard, Catherine Marie Ghislaine
TITLE OF INVENTION: Compositions Comprising Human Papilloma Virus Proteins
FILE REFERENCE: B45124
CURRENT APPLICATION NUMBER: US/10/899,771
CURRENT FILING DATE: 2004-07-27
PRIOR APPLICATION NUMBER: US/09/581,976
PRIOR FILING DATE: 2000-06-20
PRIOR APPLICATION NUMBER: PCT/EP98/08563
PRIOR FILING DATE: 1998-12-18
PRIOR APPLICATION NUMBER: GB 9727262.9
PRIOR FILING DATE: 1997-12-24
NUMBER OF SEQ ID NOS: 28
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 14
LENGTH: 390
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Chimeraic protein (Clyta from Streptococcus
OTHER INFORMATION: pneumoniae and B6E7 fusion from Human papilloma
OTHER INFORMATION: virus type 16)
US-10-899-771-14

Query Match 100.0%; Score 48; DB 5; Length 390;
Best Local Similarity 100.0%; Pred. No. 2;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 VYCKQQLLR 9
|||||
Db 163 VYCKQQLLR 171

RESULT 22
US-10-367-095-10
Sequence 10, Application US/10367095
Publication No. US20030228696A1
GENERAL INFORMATION:

APPLICANT: Robin A. Robinson
TITLE OF INVENTION: US20030228696A1 Insect Cell Line
FILE REFERENCE: 44149-1US1
CURRENT APPLICATION NUMBER: US/10/367,095
CURRENT FILING DATE: 2003-02-14
PRIOR APPLICATION NUMBER: US 60/356,119
PRIOR FILING DATE: 2002-02-14
PRIOR APPLICATION NUMBER: US 60/356,161
PRIOR FILING DATE: 2002-02-14
PRIOR APPLICATION NUMBER: US 60/356,118
PRIOR FILING DATE: 2002-02-14
PRIOR APPLICATION NUMBER: US 60/356,133
PRIOR FILING DATE: 2002-02-14
PRIOR APPLICATION NUMBER: US 60/356,157
PRIOR FILING DATE: 2002-02-14
PRIOR APPLICATION NUMBER: US 60/356,156
PRIOR FILING DATE: 2002-02-14
PRIOR APPLICATION NUMBER: US 60/356,123

PRIOR FILING DATE: 2002-02-14
PRIOR APPLICATION NUMBER: US 60/356,113
PRIOR FILING DATE: 2002-02-14
PRIOR APPLICATION NUMBER: US 60/356,154
PRIOR FILING DATE: 2002-02-14
PRIOR APPLICATION NUMBER: US 60/356,135
PRIOR FILING DATE: 2002-02-14
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 13
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 10
LENGTH: 536
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: HPV-16 L2/B6 fusion protein
US-10-367-095-10

Query Match 100.0%; Score 48; DB 4; Length 536;
Best Local Similarity 100.0%; Pred. No. 2.7;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 VYCKQQLLR 9
|||||
Db 508 VYCKQQLLR 516

RESULT 23
US-10-368-046-10
Sequence 10, Application US/10368046
Publication No. US20040063188A1
GENERAL INFORMATION:

APPLICANT: Robin A. Robinson
APPLICANT: Victoria Cloce
TITLE OF INVENTION: Method for Isolation and Purification of
FILE REFERENCE: 44149-3US1
CURRENT APPLICATION NUMBER: US/10/368,046
CURRENT FILING DATE: 2003-02-15
PRIOR APPLICATION NUMBER: US 60/356,119
PRIOR FILING DATE: 2002-02-14
PRIOR APPLICATION NUMBER: US 60/356,161
PRIOR FILING DATE: 2002-02-14
PRIOR APPLICATION NUMBER: US 60/356,118
PRIOR FILING DATE: 2002-02-14
PRIOR APPLICATION NUMBER: US 60/356,133
PRIOR FILING DATE: 2002-02-14
PRIOR APPLICATION NUMBER: US 60/356,157
PRIOR FILING DATE: 2002-02-14
PRIOR APPLICATION NUMBER: US 60/356,156
PRIOR FILING DATE: 2002-02-14
PRIOR APPLICATION NUMBER: US 60/356,123
PRIOR FILING DATE: 2002-02-14
PRIOR APPLICATION NUMBER: US 60/356,113
PRIOR FILING DATE: 2002-02-14
PRIOR APPLICATION NUMBER: US 60/356,154
PRIOR FILING DATE: 2002-02-14
PRIOR APPLICATION NUMBER: US 60/356,135
PRIOR FILING DATE: 2002-02-14
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 13
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 10
LENGTH: 536
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: HPV-16 L2/B6 fusion protein
US-10-368-046-10

Query Match 100.0%; Score 48; DB 4; Length 536;
Best Local Similarity 100.0%; Pred. No. 2.7;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 VYCKQQLR 9
|||
Db 508 VYCKQQLR 516

RESULT 24
US-10-367-367-10
; Sequence 10, Application US/10367367
; Publication No. US20040121465A1
; GENERAL INFORMATION:
; APPLICANT: Robin A. Robinson
; TITLE OF INVENTION: Optimization of Gene Sequences of
; TITLE OF INVENTION: Virus-Like Particles for Expression in Insect Cells
; FILE REFERENCE: 44149-2US1
; CURRENT APPLICATION NUMBER: US/0/367,367
; CURRENT FILING DATE: 2003-02-15
; PRIOR APPLICATION NUMBER: US 60/356,119
; PRIOR FILING DATE: 2002-02-14
; PRIOR APPLICATION NUMBER: US 60/356,161
; PRIOR FILING DATE: 2002-02-14
; PRIOR APPLICATION NUMBER: US 60/356,118
; PRIOR FILING DATE: 2002-02-14
; PRIOR APPLICATION NUMBER: US 60/356,133
; PRIOR FILING DATE: 2002-02-14
; PRIOR APPLICATION NUMBER: US 60/356,157
; PRIOR FILING DATE: 2002-02-14
; PRIOR APPLICATION NUMBER: US 60/356,156
; NUMBER OF SEQ ID NOS: 13
; SOFTWARE: PastSeq for Windows Version 4.0
; SEQ ID NO 10
; LENGTH: 536
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: HPV-16 L2/E6 fusion protein
US-10-367-367-10

Query Match 100.0%; Score 48; DB 4; Length 536;
Best Local Similarity 100.0%; Pred. No. 2.7;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 VYCKQQLR 9
|||
Db 508 VYCKQQLR 516

RESULT 25
US-10-918-337-10
; Sequence 10, Application US/10918337
; Publication No. US20050118191A1
; GENERAL INFORMATION:
; APPLICANT: NOVAVAX, INC., et al.
; TITLE OF INVENTION: Optimization of Gene Sequences of
; TITLE OF INVENTION: Chimeric Virus-Like Particles for Expression in Insect Cells
; FILE REFERENCE: 18065/2132
; CURRENT APPLICATION NUMBER: US/10/918,337
; CURRENT FILING DATE: 2004-08-13
; PRIOR APPLICATION NUMBER: PCT/US03/04473
; PRIOR FILING DATE: 2003-02-14
; PRIOR APPLICATION NUMBER: US 60/356,119
; PRIOR FILING DATE: 2002-02-14
; PRIOR APPLICATION NUMBER: US 60/356,161
; PRIOR FILING DATE: 2002-02-14
; PRIOR APPLICATION NUMBER: US 60/356,118
; PRIOR FILING DATE: 2002-02-14
; PRIOR APPLICATION NUMBER: US 60/356,133
; PRIOR FILING DATE: 2002-02-14
; PRIOR APPLICATION NUMBER: US 60/356,157
; PRIOR FILING DATE: 2002-02-14
; PRIOR APPLICATION NUMBER: US 60/356,156
; PRIOR FILING DATE: 2002-02-14

; PRIOR APPLICATION NUMBER: US 60/356,123
; PRIOR FILING DATE: 2002-02-14
; PRIOR APPLICATION NUMBER: US 60/356,113
; PRIOR FILING DATE: 2002-02-14
; PRIOR APPLICATION NUMBER: US 60/356,154
; PRIOR FILING DATE: 2002-02-14
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 13
; SOFTWARE: PastSeq for Windows Version 4.0
; SEQ ID NO 10
; LENGTH: 536
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: HPV-16 L2/E6 fusion protein
US-10-918-337-10

Qy 1 VYCKQQLR 9
|||
Db 508 VYCKQQLR 516

RESULT 26
US-10-476-570-24
; Sequence 24, Application US/10476570
; Publication No. US20040170644A1
; GENERAL INFORMATION:
; APPLICANT: COMMISSARIAT A L'ENERGIE ATOMIQUE
; APPLICANT: INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE
; APPLICANT: MAILLIERE, Bernard
; APPLICANT: BOURGAULT-VILLADA, Isabelle
; APPLICANT: POUVELLE-MORATILLE, Sandra
; APPLICANT: GUILLET, Jean-Gerard
; TITLE OF INVENTION: Mixture of peptides derived from E6 and/or E7
; TITLE OF INVENTION: papillomavirus proteins and uses thereof
; FILE REFERENCE: 45636-5071-US
; CURRENT APPLICATION NUMBER: US/10/476,570
; CURRENT FILING DATE: 2003-11-04
; PRIOR APPLICATION NUMBER: PCT/FR02/01533
; PRIOR FILING DATE: 2002-05-03
; PRIOR APPLICATION NUMBER: FR 01 05980
; PRIOR FILING DATE: 2001-05-04
; NUMBER OF SEQ ID NOS: 63
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 24
; LENGTH: 15
; TYPE: PRT
; ORGANISM: artificial sequence
; FEATURE:
; OTHER INFORMATION: Description of the artificial sequence: peptide E6 31-45
US-10-476-570-24

Query Match 89.6%; Score 43; DB 4; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.77;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 VYCKQQLR 8
|||
Db 8 VYCKQQLR 15

RESULT 27
US-10-476-570-9
; Sequence 9, Application US/10476570
; Publication No. US20040170644A1
; GENERAL INFORMATION:
; APPLICANT: COMMISSARIAT A L'ENERGIE ATOMIQUE
; APPLICANT: INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE
; APPLICANT: MAILLIERE, Bernard

APPLICANT: BOURGAULT-VILLADA, Isabelle
APPLICANT: POUVELLE-MORATILLE, Sandra
APPLICANT: GUILLET, Jean-Gerard
TITLE OF INVENTION: Mixture of peptides derived from B6 and/or E7
TITLE OF INVENTION: papillomavirus proteins and uses thereof
FILE REFERENCE: 45636-5071-US
CURRENT APPLICATION NUMBER: US/10/476,570
CURRENT FILING DATE: 2003-11-04
PRIOR APPLICATION NUMBER: PCT/FR02/01533
PRIOR FILING DATE: 2002-05-03
PRIOR APPLICATION NUMBER: FR 01 05980
PRIOR FILING DATE: 2001-05-04
NUMBER OF SEQ ID NOS: 63
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 9
LENGTH: 32
TYPE: PRT
ORGANISM: artificial sequence
FEATURE:
OTHER INFORMATION: Description of the artificial sequence: peptide B6 14-45
US-10-476-570-9

Query Match 89.6%; Score 43; DB 4; Length 32;
Best Local Similarity 100.0%; Pred. No. 1.6;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 VYCKQQL 8
DB 25 VYCKQQL 32

RESULT 28
US-10-476-570-53
Sequence 53, Application US/10476570
Publication No. US20040170644A1
GENERAL INFORMATION:
APPLICANT: COMMISSARIAT A L'ENERGIE ATOMIQUE
APPLICANT: INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE
APPLICANT: MAILLIERE, Bernard
APPLICANT: BOURGAULT-VILLADA, Isabelle
APPLICANT: POUVELLE-MORATILLE, Sandra
APPLICANT: GUILLET, Jean-Gerard
TITLE OF INVENTION: Mixture of peptides derived from B6 and/or E7
TITLE OF INVENTION: papillomavirus proteins and uses thereof
FILE REFERENCE: 45636-5071-US
CURRENT APPLICATION NUMBER: US/10/476,570
CURRENT FILING DATE: 2003-11-04
PRIOR APPLICATION NUMBER: PCT/FR02/01533
PRIOR FILING DATE: 2002-05-03
PRIOR APPLICATION NUMBER: FR 01 05980
PRIOR FILING DATE: 2001-05-04
NUMBER OF SEQ ID NOS: 63
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 53
LENGTH: 30
TYPE: PRT
ORGANISM: artificial sequence
FEATURE:
OTHER INFORMATION: Description of the artificial sequence: peptide B6 15-44
US-10-476-570-53

Query Match 81.2%; Score 39; DB 4; Length 30;
Best Local Similarity 100.0%; Pred. No. 7.7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 VYCKQQL 7
DB 24 VYCKQQL 30

RESULT 29
US-10-858-384-4
Sequence 4, Application US/10858384

Publication No. US20050033025A1
GENERAL INFORMATION:
APPLICANT: CHOPIN, JEANNINE
APPLICANT: BOURGAULT VILLADA, ISABELLE
APPLICANT: GUILLET, JEAN-GERARD
APPLICANT: CONNAT, FRANCES
APPLICANT: FERRIS, ESTELLE
TITLE OF INVENTION: POLYPEPTIC PROTEIN FRAGMENTS OF THE E6 PROTEIN
TITLE OF INVENTION: OR E7 OF HPV, THEIR PRODUCTION AND THEIR USE
FILE REFERENCE: 0508-1037-1
CURRENT APPLICATION NUMBER: US/10/858,384
CURRENT FILING DATE: 2004-06-02
PRIOR APPLICATION NUMBER: FR 9907012
PRIOR FILING DATE: 1999-06-03
NUMBER OF SEQ ID NOS: 24
SOFTWARE: PatentIn Ver. 3.2
SEQ ID NO 4
LENGTH: 30
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of the Artificial Sequence: Peptide fragment
US-10-858-384-4

Query Match 81.2%; Score 39; DB 5; Length 30;
Best Local Similarity 100.0%; Pred. No. 7.7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 VYCKQQL 7
DB 24 VYCKQQL 30

RESULT 30
US-11-021-949-14
Sequence 14, Application US/11021949
Publication No. US20050142541A1
GENERAL INFORMATION:
APPLICANT: LU, PETER
APPLICANT: GARMAN, JONATHAN DAVID
APPLICANT: BELMARES, MICHAEL P
APPLICANT: DIAZ-SALIENTO, CHAMORRO SOMOZA
APPLICANT: SCHWEIZER, JOHANNES
TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
TITLE OF INVENTION: AND METHODS OF THEIR USE
FILE REFERENCE: VITA-012
CURRENT APPLICATION NUMBER: US/11/021,949
CURRENT FILING DATE: 2004-12-23
PRIOR APPLICATION NUMBER: 60/532,373
PRIOR FILING DATE: 2003-12-23
NUMBER OF SEQ ID NOS: 361
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 14
LENGTH: 149
TYPE: PRT
ORGANISM: human papilloma virus (HPV)
US-11-021-949-14

Query Match 81.2%; Score 39; DB 6; Length 149;
Best Local Similarity 77.8%; Pred. No. 35;
Matches 7; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

OY 1 VYCKQQLR 9
DB 31 VYCKQQLR 39

RESULT 31
US-10-425-115-199640
Sequence 199640, Application US/10425115
Publication No. US20040214272A1

```
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants
; FILE REFERENCE: 38-21(53222)B
; CURRENT APPLICATION NUMBER: US/10/425,115
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 199640
; LENGTH: 145
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)..(145)
; OTHER INFORMATION: unsure at all Xaa locations
; FEATURE:
; OTHER INFORMATION: clone ID: MFT4577_113644C.1.pep
; US-10-425-115-199640

Query Match      79.2%; Score 38; DB 4; Length 145;
Best Local Similarity 87.5%; Pred. No. 51;
Matches 7; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1 VYCKQQLR 8
       :|||:|
Db      63 VYCKGQLL 70

RESULT 32
US-10-631-467-863
; Sequence 863, Application US/10631467
; Publication No. US20050208496A1
; GENERAL INFORMATION:
; APPLICANT: Genex Research Inc.
; TITLE OF INVENTION: Method for testing for bronchial asthma, or chronic obstructive p
; FILE REFERENCE: 3462.1005-000
; CURRENT APPLICATION NUMBER: US/10/631,467
; CURRENT FILING DATE: 2003-07-31
; PRIOR APPLICATION NUMBER: JP 2003-077212
; PRIOR FILING DATE: 2003-03-20
; PRIOR APPLICATION NUMBER: JP 2002-229312
; PRIOR FILING DATE: 2002-08-06
; NUMBER OF SEQ ID NOS: 2086
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 863
; LENGTH: 670
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-10-631-467-863

Query Match      79.2%; Score 38; DB 5; Length 670;
Best Local Similarity 66.7%; Pred. No. 2.1e+02;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY      1 VYCKQQLR 9
       :|||:|
Db      529 IYCKQDLR 537

RESULT 33
US-10-631-467-862
; Sequence 862, Application US/10631467
; Publication No. US20050208496A1
; GENERAL INFORMATION:
; APPLICANT: Genex Research Inc.
; TITLE OF INVENTION: Method for testing for bronchial asthma, or chronic obstructive p
; TITLE OF INVENTION: disease
; FILE REFERENCE: 3462.1005-000
```

```
; CURRENT APPLICATION NUMBER: US/10/631,467
; CURRENT FILING DATE: 2003-07-31
; PRIOR APPLICATION NUMBER: JP 2003-077212
; PRIOR FILING DATE: 2003-03-20
; PRIOR APPLICATION NUMBER: JP 2002-229312
; PRIOR FILING DATE: 2002-08-06
; NUMBER OF SEQ ID NOS: 2086
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 862
; LENGTH: 690
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-10-631-467-862

Query Match      79.2%; Score 38; DB 5; Length 690;
Best Local Similarity 66.7%; Pred. No. 2.2e+02;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY      1 VYCKQQLR 9
       :|||:|
Db      529 IYCKQDLR 537

RESULT 34
US-10-972-024-236
; Sequence 236, Application US/10972024
; Publication No. US20050221342A1
; GENERAL INFORMATION:
; APPLICANT: Hyseq, Inc
; TITLE OF INVENTION: NOVEL NUCLEIC ACIDS AND POLYPEPTIDES
; FILE REFERENCE: 791CIP4
; CURRENT APPLICATION NUMBER: US/10/972,024
; CURRENT FILING DATE: 2004-10-22
; PRIOR APPLICATION NUMBER: PCT/US01/08655
; PRIOR FILING DATE: 2001-04-16
; PRIOR APPLICATION NUMBER: 09/522,929
; PRIOR FILING DATE: 2000-04-18
; PRIOR APPLICATION NUMBER: 09/770,160
; PRIOR FILING DATE: 2001-01-26
; PRIOR APPLICATION NUMBER: 09/668,317
; PRIOR FILING DATE: 2000-09-22
; PRIOR APPLICATION NUMBER: 09/695,783
; PRIOR FILING DATE: 2000-10-24
; PRIOR APPLICATION NUMBER: 09/728,628
; PRIOR FILING DATE: 2000-12-01
; PRIOR APPLICATION NUMBER: 09/783,066
; PRIOR FILING DATE: 2001-02-13
; PRIOR APPLICATION NUMBER: 09/816,828
; PRIOR FILING DATE: 2001-03-22
; NUMBER OF SEQ ID NOS: 584
; SOFTWARE: Clustom
; SEQ ID NO 236
; LENGTH: 690
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-10-972-024-236

Query Match      79.2%; Score 38; DB 5; Length 690;
Best Local Similarity 66.7%; Pred. No. 2.2e+02;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY      1 VYCKQQLR 9
       :|||:|
Db      529 IYCKQDLR 537

RESULT 35
US-10-425-115-306231
; Sequence 306231, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
```

```
APPLICANT: Zhou, Yihua
APPLICANT: Cao, Yongwei
TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated with
TITLE OF INVENTION: Placids
FILE REFERENCE: 38-21(53222)B
CURRENT APPLICATION NUMBER: US/10/425,115
CURRENT FILING DATE: 2003-04-28
NUMBER OF SEQ ID NOS: 369326
SEQ ID NO 306231
LENGTH: 68
TYPE: PRT
ORGANISM: Zea mays
FEATURE:
OTHER INFORMATION: Clone ID: MRT4577_42348C.1.pep
US-10-425-115-306231
```

```
Query Match          77.1%; Score 37; DB 4; Length 68;
Best Local Similarity 66.7%; Pred. No. 38;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;
```

```
Qy 1 VYCKQQLR 9
Db 6 VYCKKELR 14
```

```
RESULT 36
US-11-021-949-24
Sequence 24, Application US/11021949
Publication No. US20050142541A1
GENERAL INFORMATION:
APPLICANT: LU, PETER
APPLICANT: GARMAN, JONATHAN DAVID
APPLICANT: BELMARES, MICHAEL P.
APPLICANT: DIAZ-SARMIENTO, CHAMORRO SOMOZA
APPLICANT: SCHWEIZER, JOHANNES
TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
TITLE OF INVENTION: AND METHODS OF THEIR USE
FILE REFERENCE: VITA-012
CURRENT APPLICATION NUMBER: US/11/021,949
CURRENT FILING DATE: 2004-12-23
PRIOR APPLICATION NUMBER: 60/532,373
PRIOR FILING DATE: 2003-12-23
NUMBER OF SEQ ID NOS: 361
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 24
LENGTH: 151
TYPE: PRT
ORGANISM: human papilloma virus (HPV)
US-11-021-949-24
```

```
Query Match          75.0%; Score 36; DB 6; Length 151;
Best Local Similarity 66.7%; Pred. No. 1.2e+02;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;
```

```
Qy 1 VYCKQQLR 9
Db 31 VYCKKELR 39
```

```
RESULT 37
US-11-021-949-25
Sequence 25, Application US/11021949
Publication No. US20050142541A1
GENERAL INFORMATION:
APPLICANT: LU, PETER
APPLICANT: GARMAN, JONATHAN DAVID
APPLICANT: BELMARES, MICHAEL P.
APPLICANT: DIAZ-SARMIENTO, CHAMORRO SOMOZA
APPLICANT: SCHWEIZER, JOHANNES
TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
TITLE OF INVENTION: AND METHODS OF THEIR USE
FILE REFERENCE: VITA-012
CURRENT APPLICATION NUMBER: US/11/021,949
```

```
CURRENT FILING DATE: 2004-12-23
PRIOR APPLICATION NUMBER: 60/532,373
PRIOR FILING DATE: 2003-12-23
NUMBER OF SEQ ID NOS: 361
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 25
LENGTH: 151
TYPE: PRT
ORGANISM: human papilloma virus (HPV)
US-11-021-949-25
```

```
Query Match          75.0%; Score 36; DB 6; Length 151;
Best Local Similarity 66.7%; Pred. No. 1.2e+02;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;
```

```
Qy 1 VYCKQQLR 9
Db 31 VYCKKELR 39
```

```
RESULT 38
US-11-021-949-22
Sequence 22, Application US/11021949
Publication No. US20050142541A1
GENERAL INFORMATION:
APPLICANT: LU, PETER
APPLICANT: GARMAN, JONATHAN DAVID
APPLICANT: BELMARES, MICHAEL P.
APPLICANT: DIAZ-SARMIENTO, CHAMORRO SOMOZA
APPLICANT: SCHWEIZER, JOHANNES
TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
TITLE OF INVENTION: AND METHODS OF THEIR USE
FILE REFERENCE: VITA-012
CURRENT APPLICATION NUMBER: US/11/021,949
CURRENT FILING DATE: 2004-12-23
PRIOR APPLICATION NUMBER: 60/532,373
PRIOR FILING DATE: 2003-12-23
NUMBER OF SEQ ID NOS: 361
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 22
LENGTH: 155
TYPE: PRT
ORGANISM: human papilloma virus (HPV)
US-11-021-949-22
```

```
Query Match          75.0%; Score 36; DB 6; Length 155;
Best Local Similarity 66.7%; Pred. No. 1.2e+02;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;
```

```
Qy 1 VYCKQQLR 9
Db 34 VYCKKELR 42
```

```
RESULT 39
US-09-095-881-2
Sequence 2, Application US/09095881
Patent No. US20020123042A1
GENERAL INFORMATION:
APPLICANT: Seeley, Todd
TITLE OF INVENTION: DETECTION OF LOSS OF THE WILD-TYPE
TITLE OF INVENTION: HUBU1 GENE
FILE REFERENCE: 1405.003 / 200130.437
CURRENT APPLICATION NUMBER: US/09/095,881
CURRENT FILING DATE: 1998-06-11
NUMBER OF SEQ ID NOS: 15
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 2
LENGTH: 1085
TYPE: PRT
ORGANISM: Homo sapien
US-09-095-881-2
```

Query Match 75.0%; Score 36; DB 3; Length 1085;
Best Local Similarity 55.6%; Pred. No. 7.6e+02;
Matches 5; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

OY 1 VYCKQOLLR 9
:||||:|
Db 236 MYCKEKLIR 244

RESULT 40
US-10-084-700-4
; Sequence 4, Application US/10084700
; Publication No. US20020160403A1
; GENERAL INFORMATION:
; APPLICANT: Seeley, Todd
; TITLE OF INVENTION: HUBB3 GENE INVOLVED IN HUMAN CANCERS
; FILE REFERENCE: PP-01406.004/200130.438D1
; CURRENT APPLICATION NUMBER: US/10/084,700
; CURRENT FILING DATE: 2002-02-27
; NUMBER OF SEQ ID NOS: 32
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 4
; LENGTH: 1085
; TYPE: PRT
; ORGANISM: Homo sapien
US-10-084-700-4

Query Match 75.0%; Score 36; DB 4; Length 1085;
Best Local Similarity 55.6%; Pred. No. 7.6e+02;
Matches 5; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

OY 1 VYCKQOLLR 9
:||||:|
Db 236 MYCKEKLIR 244

RESULT 41
US-10-263-929-137
; Sequence 137, Application US/10263929
; Publication No. US20040067535A1
; GENERAL INFORMATION:
; APPLICANT: Kim, Jaeseob
; APPLICANT: Galant, Ron
; TITLE OF INVENTION: Alzheimer's Disease Linked Genes
; FILE REFERENCE: LSD-07417
; CURRENT APPLICATION NUMBER: US/10/263,929
; CURRENT FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 213
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 137
; LENGTH: 1085
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-263-929-137

Query Match 75.0%; Score 36; DB 4; Length 1085;
Best Local Similarity 55.6%; Pred. No. 7.6e+02;
Matches 5; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

OY 1 VYCKQOLLR 9
:||||:|
Db 236 MYCKEKLIR 244

RESULT 42
US-10-733-878-373
; Sequence 373, Application US/10733878
; Publication No. US20040224408A1
; GENERAL INFORMATION:
; APPLICANT: Jean-Philippe Gizard
; APPLICANT: Francois Amalric
; APPLICANT: Myriam Roussigne
; APPLICANT: Thomas Clouaite

; TITLE OF INVENTION: THAP PROTEINS AS NUCLEAR RECEPTORS FOR
; TITLE OF INVENTION: CHEMOKINES AND ROLES IN TRANSCRIPTIONAL REGULATION, CELL
; TITLE OF INVENTION: PROLIFERATION AND CELL DIFFERENTIATION
; FILE REFERENCE: BIOBANK.012A
; CURRENT APPLICATION NUMBER: US/10/733,878
; CURRENT FILING DATE: 2003-12-10
; PRIOR APPLICATION NUMBER: 60/432699
; PRIOR FILING DATE: 2002-12-10
; PRIOR APPLICATION NUMBER: 60/485027
; PRIOR FILING DATE: 2003-07-03
; NUMBER OF SEQ ID NOS: 535
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 373
; LENGTH: 1085
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-733-878-373

Query Match 75.0%; Score 36; DB 5; Length 1085;
Best Local Similarity 55.6%; Pred. No. 7.6e+02;
Matches 5; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

OY 1 VYCKQOLLR 9
:||||:|
Db 236 MYCKEKLIR 244

RESULT 43
US-10-263-929-138
; Sequence 138, Application US/10263929
; Publication No. US20040067535A1
; GENERAL INFORMATION:
; APPLICANT: Kim, Jaeseob
; APPLICANT: Galant, Ron
; TITLE OF INVENTION: Alzheimer's Disease Linked Genes
; FILE REFERENCE: LSD-07417
; CURRENT APPLICATION NUMBER: US/10/263,929
; CURRENT FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 213
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 138
; LENGTH: 1102
; TYPE: PRT
; ORGANISM: Mus musculus
US-10-263-929-138

Query Match 75.0%; Score 36; DB 4; Length 1102;
Best Local Similarity 55.6%; Pred. No. 7.8e+02;
Matches 5; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

OY 1 VYCKQOLLR 9
:||||:|
Db 279 MYCKEKLIR 287

RESULT 44
US-10-425-115-215541
; Sequence 215541, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated with
; FILE REFERENCE: 38-21(53222)B
; CURRENT APPLICATION NUMBER: US/10/425,115
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 215541
; LENGTH: 1547
; TYPE: PRT

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; ORGANISM: Zea mays
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1) (1547)
; OTHER INFORMATION: unsure at all Xaa locations
; FEATURE:
; OTHER INFORMATION: Clone ID: MRT4577_128172C.1.pcp
US-10-425-115-21541

Query Match          75.0%; Score 36; DB 4; Length 1547;
Best Local Similarity 66.7%; Pred. No. 1.1e+03;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 1 VYCKOQLLR 9
Db 1530 VYCRSLRLR 1538

RESULT 45
US-10-425-115-290415
; Sequence 290415, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants
; FILE REFERENCE: 38-21(53222)B
; CURRENT APPLICATION NUMBER: US/10/425,115
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 290415
; LENGTH: 69
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1) (69)
; OTHER INFORMATION: unsure at all Xaa locations
; FEATURE:
; OTHER INFORMATION: Clone ID: MRT4577_27948C.1.pcp
US-10-425-115-290415

Query Match          72.9%; Score 35; DB 4; Length 69;
Best Local Similarity 55.6%; Pred. No. 89;
Matches 5; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

Qy 1 VYCKOQLLR 9
Db 54 LYCKNRLR 62

RESULT 46
US-10-450-186-35
; Sequence 35, Application US/10450186
; Publication No. US20050176927A1
; GENERAL INFORMATION:
; APPLICANT: INCYTE CORPORATION; GRIFFIN, Jennifer A.;
; APPLICANT: YAO, Monique G.; DUGGAN, Brendan M.;
; APPLICANT: YUE, Henry; DING, Li;
; APPLICANT: LAL, Preeti G.; LEE, Ernestine A.;
; APPLICANT: RAMKUMAR, Jayalaxmi; THANGAVELU, Kavitha;
; APPLICANT: XU, Yuming; LEE, Sally;
; APPLICANT: TANG, Y. Tom; NGUYEN, Daniel B.;
; APPLICANT: WARREN, Bridget A.; HONCHELU, Cynthia D.;
; APPLICANT: GIETZEN, Kimberly J.; BAUGHN, Mariah R.;
; APPLICANT: GANDHI, Ameena R.; ARVIZU, Chandra S.;
; APPLICANT: CHANULA, Narinder K.; LU, Yan;
; APPLICANT: ELLIOTT, Vicki S.; LU, Dyoung Aina M.;
; APPLICANT: HANFALIA, April J.A.; AZIMZAI, Yalda;
; APPLICANT: KHAN, Farrah A.; TRAN, Uyen K.
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; TITLE OF INVENTION: SECRETED PROTEINS
; FILE REFERENCE: PI-0345 USN
; CURRENT APPLICATION NUMBER: US/10/450,186
; CURRENT FILING DATE: 2003-06-09
; PRIOR APPLICATION NUMBER: PCT/US01/48517
; PRIOR FILING DATE: 2001-12-12
; PRIOR APPLICATION NUMBER: US 60/255,639
; PRIOR FILING DATE: 2000-12-13
; PRIOR APPLICATION NUMBER: US 60/257,852
; PRIOR FILING DATE: 2000-12-21
; PRIOR APPLICATION NUMBER: US 60/260,105
; PRIOR FILING DATE: 2001-01-05
; PRIOR APPLICATION NUMBER: US 60/262,932
; PRIOR FILING DATE: 2001-01-18
; PRIOR APPLICATION NUMBER: US 60/263,096
; PRIOR FILING DATE: 2001-01-18
; PRIOR APPLICATION NUMBER: US 60/263,090
; PRIOR FILING DATE: 2001-01-19
; PRIOR APPLICATION NUMBER: US 60/265,926
; PRIOR FILING DATE: 2001-02-02
; NUMBER OF SEQ ID NOS: 108
; SOFTWARE: PERL Program
; SEQ ID NO 35
; LENGTH: 111
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; OTHER INFORMATION: Incyte ID No: 6975241CD1
US-10-450-186-35

Query Match          72.9%; Score 35; DB 5; Length 111;
Best Local Similarity 66.7%; Pred. No. 1.4e+02;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 1 VYCKOQLLR 9
Db 29 VYCKOQLLR 37

RESULT 47
US-11-021-949-359
; Sequence 359, Application US/11021949
; Publication No. US20050142541A1
; GENERAL INFORMATION:
; APPLICANT: LU, PETER
; APPLICANT: GARMAN, JONATHAN DAVID
; APPLICANT: BELMARES, MICHAEL P.
; APPLICANT: DIAZ-SAMIENTO, CHAMORRO SOWOZA
; APPLICANT: SCHWEIZER, JOHANNES
; TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
; TITLE OF INVENTION: AND METHODS OF THEIR USE
; FILE REFERENCE: VITA-012
; CURRENT APPLICATION NUMBER: US/11/021,949
; CURRENT FILING DATE: 2004-12-23
; PRIOR APPLICATION NUMBER: 60/532,373
; PRIOR FILING DATE: 2003-12-23
; NUMBER OF SEQ ID NOS: 361
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 359
; LENGTH: 148
; TYPE: PRT
; ORGANISM: human papilloma virus (HPV)
US-11-021-949-359
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Query Match          72.9%; Score 35; DB 6; Length 148;
Best Local Similarity 66.7%; Pred. No. 1.8e+02;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 1 VYCKOQLLR 9
Db 32 VYCRQLLR 40
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RESULT 48
US-11-021-949-31
; Sequence 31, Application US/11021949
; Publication No. US20050142541A1
; GENERAL INFORMATION:
; APPLICANT: LU, PETER
; APPLICANT: GARMAN, JONATHAN DAVID
; APPLICANT: BELMARES, MICHAEL P.
; APPLICANT: DIAZ-SARMIENTO, CHAMORRO SOMOZA
; APPLICANT: SCHWEIZER, JOHANNES
; TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
; TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
; FILE REFERENCE: VITA-012
; CURRENT APPLICATION NUMBER: US/11/021,949
; CURRENT FILING DATE: 2004-12-23
; PRIOR APPLICATION NUMBER: 60/532,373
; PRIOR FILING DATE: 2003-12-23
; NUMBER OF SEQ ID NOS: 361
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 31
; LENGTH: 162
; TYPE: PRT
; ORGANISM: human papilloma virus (HPV)
US-11-021-949-31

Query Match      72.9%; Score 35; DB 6; Length 162;
Best Local Similarity 66.7%; Pred. No. 2e+02;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY      1 YCKRQQLR 9
DB      37 YCKRQQLR 45

RESULT 49
US-10-732-923-1366
; Sequence 1366, Application US/10732923
; Publication No. US20050108791A1
; GENERAL INFORMATION:
; APPLICANT: Edgerton, Michael D
; TITLE OF INVENTION: TRANSGENIC PLANTS WITH IMPROVED PHENOTYPES
; FILE REFERENCE: 38-15(52796)C
; CURRENT APPLICATION NUMBER: US/10/732,923
; CURRENT FILING DATE: 2003-12-10
; PRIOR APPLICATION NUMBER: 10/310,154
; PRIOR FILING DATE: 2002-12-04
; NUMBER OF SEQ ID NOS: 24149
; SEQ ID NO 1366
; LENGTH: 354
; TYPE: PRT
; ORGANISM: Ustilago maydis
US-10-732-923-1366

Query Match      72.9%; Score 35; DB 5; Length 354;
Best Local Similarity 75.0%; Pred. No. 4.1e+02;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY      2 YCKRQQLR 9
DB      334 YCKRQQLR 341

RESULT 50
US-09-759-1308-214
; Sequence 214, Application US/09759130B
; Publication No. US20030022279A1
; GENERAL INFORMATION:
; APPLICANT: Millennium Pharmaceuticals, Inc.
; APPLICANT: McCarthy, Sean A
; APPLICANT: Fraser, Christopher C
; APPLICANT: Sharp, John D
; APPLICANT: Barnes, Thomas S
```

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; APPLICANT: Kirst, Susan J
; APPLICANT: Mackay, Charles R
; APPLICANT: Myers, Paul S
; APPLICANT: Leiby, Kevin R
; APPLICANT: Wrighton, Nicolas
; APPLICANT: Goodearl, Andrew
; APPLICANT: Holtzman, Douglas A
; TITLE OF INVENTION: NOVEL GENES ENCODING PROTEINS HAVING
; TITLE OF INVENTION: PROGNOSTIC, DIAGNOSTIC, PREVENTIVE, THERAPEUTIC, AND OTHER
; FILE REFERENCE: US8.
; FILE REFERENCE: MPI00-535OMNIM
; CURRENT APPLICATION NUMBER: US/09/759,130B
; CURRENT FILING DATE: 2002-09-16
; PRIOR APPLICATION NUMBER: US 09/479,249
; PRIOR FILING DATE: 2000-01-07
; PRIOR APPLICATION NUMBER: US 09/559,497
; PRIOR FILING DATE: 2000-04-27
; PRIOR APPLICATION NUMBER: US 09/578,063
; PRIOR FILING DATE: 2000-05-24
; PRIOR APPLICATION NUMBER: US 09/333,159
; PRIOR FILING DATE: 1999-06-14
; PRIOR APPLICATION NUMBER: US 09/596,194
; PRIOR FILING DATE: 2000-07-14
; PRIOR APPLICATION NUMBER: US 09/342,364
; PRIOR FILING DATE: 1999-06-29
; PRIOR APPLICATION NUMBER: US 09/609,452
; PRIOR FILING DATE: 2000-06-30
; PRIOR APPLICATION NUMBER: US 09/393,996
; PRIOR FILING DATE: 1999-09-10
; PRIOR APPLICATION NUMBER: US 09/602,871
; PRIOR FILING DATE: 2000-06-23
; PRIOR APPLICATION NUMBER: US 09/420,707
; PRIOR FILING DATE: 1999-10-19
; NUMBER OF SEQ ID NOS: 460
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 214
; LENGTH: 414
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-759-1308-214

Query Match      72.9%; Score 35; DB 3; Length 414;
Best Local Similarity 66.7%; Pred. No. 4.7e+02;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY      1 YCKRQQLR 9
DB      6 VFCPEQLR 14

Search completed: May 5, 2006, 07:56:41
Job time : 68.9 secs
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GenCore version 5.1.7
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OM protein - protein search, using SW model

Run on: May 5, 2006, 07:46:05 ; Search time 8.4 Seconds
(without alignments)
49.591 Million cell updates/sec

Title: US-08-170-344-42
Perfect score: 48
Sequence: 1 VYCKQQLR 9

Scoring table: BIOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 235405 seqs, 46284737 residues

Total number of hits satisfying chosen parameters: 235405

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 1000 summaries

Database : Published Applications_AA_New:*
1: /SIDS5/prodata/1/pubppaa/US08_NEW_PUB.pep1.*
2: /SIDS5/prodata/1/pubppaa/US06_NEW_PUB.pep.*
3: /SIDS5/prodata/1/pubppaa/US07_NEW_PUB.pep.*
4: /SIDS5/prodata/1/pubppaa/US08_NEW_PUB.pep.*
5: /SIDS5/prodata/1/pubppaa/PCT_NEW_PUB.pep.*
6: /SIDS5/prodata/1/pubppaa/US09_NEW_PUB.pep.*
7: /SIDS5/prodata/1/pubppaa/US10_NEW_PUB.pep1.*
8: /SIDS5/prodata/1/pubppaa/US10_NEW_PUB.pep1.*
9: /SIDS5/prodata/1/pubppaa/US10_NEW_PUB.pep1.*
10: /SIDS5/prodata/1/pubppaa/US11_NEW_PUB.pep1.*
11: /SIDS5/prodata/1/pubppaa/US60_NEW_PUB.pep1.*
12: /SIDS5/prodata/1/pubppaa/US60_NEW_PUB.pep1.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	48	100.0	151	9	US-10-530-253-13
2	48	100.0	158	11	US-11-206-138-3
3	48	100.0	248	9	US-10-530-253-1
4	48	100.0	248	9	US-10-530-253-3
5	48	100.0	248	9	US-10-530-253-5
6	48	100.0	248	9	US-10-530-253-7
7	48	100.0	248	9	US-10-530-253-9
8	48	100.0	248	9	US-10-530-253-11
9	48	100.0	256	11	US-11-192-923A-2
10	39	81.2	149	9	US-10-530-253-18
11	36	75.0	15	9	US-10-530-061-1692
12	36	75.0	151	9	US-10-530-253-21
13	36	75.0	155	9	US-10-530-253-23
14	36	75.0	1085	8	US-10-505-928-175
15	36	72.9	158	9	US-10-530-253-26
16	35	72.9	354	11	US-11-188-298-16534
17	35	72.9	897	9	US-10-821-234-1523
18	35	68.8	28	9	US-10-729-121-17
19	33	68.8	28	11	US-11-285-537-17
20	33	68.8	152	9	US-10-530-253-39
21	33	68.8	152	9	US-10-530-253-39

22	32	66.7	149	9	US-10-530-253-16	Sequence 16, App1
23	32	66.7	358	11	US-11-098-686-11346	Sequence 11346, A
24	32	66.7	416	11	US-11-195-851-18	Sequence 18, App1
25	32	66.7	417	9	US-10-194-487-474	Sequence 474, App
26	32	66.7	417	9	US-10-195-883-474	Sequence 474, App
27	32	66.7	417	9	US-10-195-888-474	Sequence 474, App
28	32	66.7	417	9	US-10-195-889-474	Sequence 474, App
29	32	66.7	417	9	US-10-218-784-420	Sequence 220, App
30	32	66.7	417	9	US-10-219-061-220	Sequence 220, App
31	32	66.7	417	9	US-10-219-062-220	Sequence 220, App
32	32	66.7	417	9	US-10-219-064-220	Sequence 220, App
33	32	66.7	417	9	US-10-233-134-220	Sequence 220, App
34	32	66.7	417	11	US-11-195-851-16	Sequence 16, App1
35	32	66.7	423	11	US-11-195-851-4	Sequence 2, App1
36	32	66.7	423	11	US-11-195-851-4	Sequence 4, App1
37	32	66.7	423	11	US-11-195-851-6	Sequence 6, App1
38	31	64.6	194	9	US-10-793-626-140	Sequence 140, App
39	31	64.6	253	11	US-11-045-004-745	Sequence 745, App
40	31	64.6	259	11	US-11-087-099-1922	Sequence 1922, App
41	31	64.6	261	11	US-11-087-099-1647	Sequence 1647, App
42	31	64.6	310	9	US-10-455-772-978	Sequence 978, App
43	31	64.6	310	9	US-10-455-772-982	Sequence 982, App
44	31	64.6	438	9	US-10-641-678-49	Sequence 49, App1
45	31	64.6	662	11	US-11-072-512-3349	Sequence 3349, App
46	31	64.6	769	11	US-11-188-298-18431	Sequence 18431, A
47	31	64.6	1419	9	US-10-455-772-980	Sequence 980, App
48	31	64.6	1423	9	US-10-455-772-984	Sequence 984, App
49	31	64.6	1458	11	US-11-096-774-2	Sequence 2, App1
50	31	64.6	1458	11	US-11-098-686-10232	Sequence 10232, A
51	30	62.5	46	11	US-11-004-399-691	Sequence 360, App
52	30	62.5	46	11	US-11-004-399-721	Sequence 691, App
53	30	62.5	105	11	US-11-264-096-230	Sequence 3721, App
54	30	62.5	105	11	US-11-264-096-312	Sequence 230, App
55	30	62.5	108	9	US-10-925-366A-316	Sequence 222, App
56	30	62.5	108	11	US-11-217-919-126	Sequence 316, App
57	30	62.5	108	11	US-11-098-758-316	Sequence 136, App
58	30	62.5	124	11	US-11-019-711-103	Sequence 103, App
59	30	62.5	139	11	US-11-264-728-6	Sequence 6, App1
60	30	62.5	170	11	US-11-188-298-13430	Sequence 13430, A
61	30	62.5	179	11	US-11-106-399-10	Sequence 10, App
62	30	62.5	197	11	US-11-096-568A-33678	Sequence 33678, A
63	30	62.5	211	11	US-11-079-463-5489	Sequence 5489, App
64	30	62.5	218	11	US-11-180-997-2	Sequence 2, App1
65	30	62.5	227	9	US-10-519-390-22	Sequence 22, App1
66	30	62.5	227	11	US-11-176-830-214	Sequence 214, App
67	30	62.5	227	11	US-11-176-830-761	Sequence 761, App
68	30	62.5	227	11	US-11-176-830-762	Sequence 762, App
69	30	62.5	227	11	US-11-176-830-763	Sequence 763, App
70	30	62.5	227	11	US-11-176-830-764	Sequence 764, App
71	30	62.5	227	11	US-11-176-830-765	Sequence 765, App
72	30	62.5	227	11	US-11-176-830-766	Sequence 766, App
73	30	62.5	227	11	US-11-176-830-767	Sequence 767, App
74	30	62.5	227	11	US-11-176-830-768	Sequence 768, App
75	30	62.5	227	11	US-11-176-830-769	Sequence 769, App
76	30	62.5	227	11	US-11-176-830-770	Sequence 770, App
77	30	62.5	227	11	US-11-176-830-771	Sequence 771, App
78	30	62.5	227	11	US-11-176-830-772	Sequence 772, App
79	30	62.5	227	11	US-11-176-830-773	Sequence 773, App
80	30	62.5	227	11	US-11-176-830-774	Sequence 774, App
81	30	62.5	227	11	US-11-176-830-775	Sequence 775, App
82	30	62.5	227	11	US-11-176-830-776	Sequence 776, App
83	30	62.5	227	11	US-11-176-830-777	Sequence 777, App
84	30	62.5	227	11	US-11-176-830-778	Sequence 778, App
85	30	62.5	227	11	US-11-176-830-779	Sequence 779, App
86	30	62.5	227	11	US-11-176-830-780	Sequence 780, App
87	30	62.5	227	11	US-11-176-830-781	Sequence 781, App
88	30	62.5	227	11	US-11-176-830-782	Sequence 782, App
89	30	62.5	227	11	US-11-176-830-783	Sequence 783, App
90	30	62.5	227	11	US-11-176-830-784	Sequence 784, App
91	30	62.5	227	11	US-11-176-830-785	Sequence 785, App
92	30	62.5	227	11	US-11-176-830-786	Sequence 786, App
93	30	62.5	227	11	US-11-176-830-787	Sequence 787, App
94	30	62.5	227	11	US-11-176-830-787	Sequence 787, App

95	30	62.5	227	11	US-11-176-830-788	Sequence 788, App	168	28	58.3	108	9	US-10-925-366A-173	Sequence 173, App
96	30	62.5	227	11	US-11-176-830-789	Sequence 789, App	169	28	58.3	108	9	US-10-925-366A-174	Sequence 174, App
97	30	62.5	227	11	US-11-176-830-790	Sequence 790, App	170	28	58.3	108	9	US-10-925-366A-175	Sequence 175, App
98	30	62.5	227	11	US-11-176-830-791	Sequence 791, App	171	28	58.3	108	9	US-10-925-366A-176	Sequence 176, App
99	30	62.5	227	11	US-11-176-830-792	Sequence 792, App	172	28	58.3	108	9	US-10-925-366A-177	Sequence 177, App
100	30	62.5	227	11	US-11-176-830-793	Sequence 793, App	173	28	58.3	108	9	US-10-925-366A-178	Sequence 178, App
101	30	62.5	263	11	US-11-096-568A-33677	Sequence 33677, A	174	28	58.3	108	9	US-10-925-366A-179	Sequence 179, App
102	30	62.5	269	11	US-11-096-568A-33676	Sequence 33676, A	175	28	58.3	108	9	US-10-925-366A-180	Sequence 180, App
103	30	62.5	317	11	US-11-079-463-8699	Sequence 8699, App	176	28	58.3	108	9	US-10-925-366A-181	Sequence 181, App
104	30	62.5	340	11	US-11-098-886-11147	Sequence 11147, A	177	28	58.3	108	9	US-10-925-366A-182	Sequence 182, App
105	30	62.5	351	11	US-11-087-099-2242	Sequence 2242, App	178	28	58.3	108	9	US-10-925-366A-183	Sequence 183, App
106	30	62.5	351	11	US-11-087-099-8245	Sequence 8245, App	179	28	58.3	108	9	US-10-925-366A-184	Sequence 184, App
107	30	62.5	574	9	US-10-330-773-488	Sequence 488, App	180	28	58.3	108	9	US-10-925-366A-185	Sequence 185, App
108	30	62.5	691	9	US-10-330-773-485	Sequence 485, App	181	28	58.3	108	9	US-10-925-366A-186	Sequence 186, App
109	29	60.4	108	9	US-10-925-366A-192	Sequence 192, App	182	28	58.3	108	9	US-10-925-366A-187	Sequence 187, App
110	29	60.4	108	9	US-10-925-366A-199	Sequence 199, App	183	28	58.3	108	9	US-10-925-366A-188	Sequence 188, App
111	29	60.4	108	11	US-11-098-758-192	Sequence 192, App	184	28	58.3	108	9	US-10-925-366A-189	Sequence 189, App
112	29	60.4	108	11	US-11-098-758-199	Sequence 199, App	185	28	58.3	108	9	US-10-925-366A-190	Sequence 190, App
113	29	60.4	117	11	US-11-037-199-23	Sequence 23, App	186	28	58.3	108	9	US-10-925-366A-206	Sequence 206, App
114	29	60.4	158	9	US-10-530-253-20	Sequence 20, App	187	28	58.3	108	11	US-11-098-758-141	Sequence 141, App
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116	29	60.4	232	11	US-11-096-568A-16025	Sequence 16025, A	189	28	58.3	108	11	US-11-098-758-143	Sequence 143, App
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118	29	60.4	308	9	US-10-467-657-8054	Sequence 8054, App	191	28	58.3	108	11	US-11-098-758-145	Sequence 145, App
119	29	60.4	374	9	US-10-506-454-908	Sequence 908, App	192	28	58.3	108	11	US-11-098-758-146	Sequence 146, App
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121	29	60.4	429	9	US-10-784-004-1172	Sequence 1172, App	194	28	58.3	108	11	US-11-098-758-149	Sequence 149, App
122	29	60.4	449	11	US-11-087-099-7707	Sequence 7707, App	195	28	58.3	108	11	US-11-098-758-150	Sequence 150, App
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125	29	60.4	481	11	US-11-237-177-1	Sequence 1, App	198	28	58.3	108	11	US-11-098-758-154	Sequence 154, App
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145	28	58.3	108	9	US-10-925-366A-145	Sequence 145, App	218	28	58.3	108	11	US-11-098-758-177	Sequence 177, App
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159	28	58.3	108	9	US-10-925-366A-163	Sequence 163, App	232	28	58.3	108	11	US-11-098-758-206	Sequence 206, App
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165	28	58.3	108	9	US-10-925-366A-169	Sequence 169, App	241	28	58.3	241	11	US-11-096-568A-24696	Sequence 24696, A
166	28	58.3	108	9	US-10-925-366A-170	Sequence 170, App	239	28	58.3	249	9	US-10-469-469-319	Sequence 319, App
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242	28	58.3	263	11	US-11-098-686-10590	Sequence 10590, A	315	27	56.2	108	9	US-10-925-366A-147	Sequence 147, App
243	28	58.3	271	9	US-10-533-811-1	Sequence 1, Appl1	316	27	56.2	108	9	US-10-925-366A-200	Sequence 200, App
244	28	58.3	287	11	US-11-188-298-4293	Sequence 4293, Ap	317	27	56.2	108	9	US-10-925-366A-207	Sequence 207, App
245	28	58.3	296	11	US-11-098-686-10566	Sequence 10566, A	318	27	56.2	108	11	US-11-098-758-147	Sequence 147, App
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249	28	58.3	357	9	US-10-510-507-1	Sequence 1, Appl1	322	27	56.2	148	9	US-10-530-253-2	Sequence 22, Appl1
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283	28	58.3	724	9	US-10-469-469-321	Sequence 321, App	356	27	56.2	327	11	US-11-087-039-7737	Sequence 7737, Ap
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395	27	56.2	465	11	US-11-087-099-1964	Sequence 1964, Ap	468	26	54.2	66	11	US-11-000-463-831	Sequence 831, Ap
396	27	56.2	465	11	US-11-188-298-1940	Sequence 1940, Ap	469	26	54.2	87	11	US-11-226-657-221	Sequence 221, Ap
397	27	56.2	466	11	US-11-087-099-8259	Sequence 8259, Ap	470	26	54.2	94	9	US-10-821-234-1066	Sequence 1066, Ap
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399	27	56.2	469	11	US-11-087-099-10242	Sequence 10242, A	472	26	54.2	95	11	US-11-096-568A-3962	Sequence 3962, Ap
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401	27	56.2	469	11	US-11-188-298-9435	Sequence 9435, Ap	474	26	54.2	96	11	US-11-136-250-132	Sequence 132, Ap
402	27	56.2	473	11	US-11-152-366-34	Sequence 34, Ap	475	26	54.2	97	9	US-10-530-253-29	Sequence 29, Ap
403	27	56.2	482	11	US-11-096-568A-15111	Sequence 15111, A	476	26	54.2	98	8	US-10-511-814-8	Sequence 8, Ap
404	27	56.2	488	11	US-11-172-740-1299	Sequence 1299, Ap	477	26	54.2	98	8	US-10-511-814-8	Sequence 8, Ap
405	27	56.2	492	11	US-11-072-512-1974	Sequence 1974, Ap	478	26	54.2	98	9	US-10-530-253-14	Sequence 14, Ap
406	27	56.2	492	11	US-11-072-512-3223	Sequence 3223, Ap	479	26	54.2	98	11	US-11-179-478-4	Sequence 4, Ap
407	27	56.2	492	11	US-11-188-298-3461	Sequence 3461, Ap	480	26	54.2	99	9	US-10-530-253-30	Sequence 30, Ap
408	27	56.2	493	11	US-11-090-617-698	Sequence 698, Ap	481	26	54.2	102	11	US-11-097-960-82	Sequence 82, Ap
409	27	56.2	500	11	US-11-040-218-13	Sequence 13, Ap	482	26	54.2	109	11	US-11-188-298-13134	Sequence 1314, A
410	27	56.2	503	11	US-11-087-099-9776	Sequence 9776, Ap	483	26	54.2	115	11	US-11-096-568A-1968	Sequence 1968, Ap
411	27	56.2	503	11	US-11-188-298-20070	Sequence 20070, A	484	26	54.2	117	11	US-11-079-463-8766	Sequence 8766, Ap
412	27	56.2	505	11	US-11-188-298-21137	Sequence 21137, A	485	26	54.2	125	9	US-10-921-793-42	Sequence 42, Ap
413	27	56.2	505	11	US-11-188-298-21137	Sequence 21137, A	486	26	54.2	125	9	US-10-921-793-42	Sequence 42, Ap
414	27	56.2	506	11	US-11-188-298-9019	Sequence 9019, Ap	487	26	54.2	125	9	US-10-931-198-48	Sequence 48, Ap
415	27	56.2	506	11	US-11-188-298-9318	Sequence 9318, Ap	488	26	54.2	128	11	US-11-105-041-2	Sequence 2, Ap
416	27	56.2	518	11	US-11-079-463-10182	Sequence 10182, A	489	26	54.2	138	9	US-10-330-773-476	Sequence 476, Ap
417	27	56.2	532	11	US-11-040-218-19	Sequence 19, Ap	490	26	54.2	138	10	US-11-301-554-328	Sequence 328, Ap
418	27	56.2	532	11	US-11-079-463-5528	Sequence 5528, Ap	491	26	54.2	132	11	US-11-188-298-2928	Sequence 2928, Ap
419	27	56.2	533	11	US-11-124-368A-335	Sequence 335, Ap	492	26	54.2	132	11	US-11-188-298-3399	Sequence 3999, Ap
420	27	56.2	546	11	US-11-040-218-15	Sequence 15, Ap	493	26	54.2	135	9	US-10-330-773-480	Sequence 480, Ap
421	27	56.2	546	11	US-11-040-218-17	Sequence 17, Ap	494	26	54.2	136	8	US-10-505-928-422	Sequence 422, Ap
422	27	56.2	582	8	US-10-505-928-813	Sequence 813, Ap	495	26	54.2	136	9	US-10-467-657-3148	Sequence 3148, Ap
423	27	56.2	582	8	US-11-090-439-58	Sequence 58, Ap	496	26	54.2	156	9	US-10-330-773-478	Sequence 478, Ap
424	27	56.2	582	11	US-11-169-041-130	Sequence 130, Ap	497	26	54.2	156	9	US-10-330-773-482	Sequence 482, Ap
425	27	56.2	582	11	US-11-200-822-2	Sequence 2, Ap	498	26	54.2	157	9	US-10-330-773-473	Sequence 473, Ap
426	27	56.2	590	11	US-11-040-218-11	Sequence 11, Ap	499	26	54.2	157	11	US-11-087-099-5557	Sequence 5557, Ap
427	27	56.2	604	8	US-10-370-959-93	Sequence 93, Ap	500	26	54.2	158	9	US-10-530-253-15	Sequence 15, Ap
428	27	56.2	611	11	US-11-188-298-5827	Sequence 5827, Ap	501	26	54.2	160	9	US-10-467-657-6486	Sequence 6486, Ap
429	27	56.2	686	9	US-10-745-586-188	Sequence 188, Ap	502	26	54.2	160	9	US-10-467-657-6486	Sequence 6486, Ap
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431	27	56.2	906	9	US-10-329-258-12	Sequence 12, Ap	504	26	54.2	167	11	US-11-264-096-2217	Sequence 2217, Ap
432	27	56.2	930	9	US-10-821-234-1188	Sequence 1188, Ap	505	26	54.2	168	11	US-11-079-463-5900	Sequence 5900, Ap
433	27	56.2	1034	11	US-11-072-512-2343	Sequence 2343, Ap	506	26	54.2	168	11	US-11-188-298-14025	Sequence 14025, A
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436	27	56.2	1050	9	US-10-770-726-47	Sequence 47, Ap	509	26	54.2	180	11	US-11-188-298-1609	Sequence 1609, Ap
437	27	56.2	1069	11	US-11-088-586-10296	Sequence 10296, A	510	26	54.2	180	11	US-11-188-298-5856	Sequence 5856, Ap
438	27	56.2	1104	9	US-10-330-773-794	Sequence 794, Ap	511	26	54.2	181	11	US-11-188-298-20165	Sequence 20165, A
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443	27	56.2	2597	11	US-11-124-367A-466	Sequence 466, Ap	516	26	54.2	210	11	US-11-188-298-8720	Sequence 8720, Ap
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445	27	56.2	3012	11	US-11-124-367A-465	Sequence 465, Ap	518	26	54.2	218	11	US-11-158-505-4	Sequence 4, Ap
446	27	56.2	3144	11	US-11-055-035-1	Sequence 5, Ap	519	26	54.2	218	11	US-11-158-505-12	Sequence 12, Ap
447	27	56.2	7968	11	US-11-186-731-5	Sequence 1, Ap	520	26	54.2	218	11	US-11-158-505-20	Sequence 20, Ap
448	27	55.2	478	11	US-11-087-099-8625	Sequence 8625, Ap	521	26	54.2	220	11	US-11-158-505-28	Sequence 28, Ap
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451	26	54.2	9	9	US-10-505-955-607	Sequence 607, Ap	524	26	54.2	227	11	US-11-264-096-1384	Sequence 1384, Ap
452	26	54.2	10	9	US-10-530-061-807	Sequence 807, Ap	525	26	54.2	230	9	US-10-942-698-10	Sequence 10, Ap
453	26	54.2	11	9	US-10-530-061-493	Sequence 493, Ap	526	26	54.2	236	11	US-11-188-298-16088	Sequence 16088, A
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455	26	54.2	22	9	US-10-467-657-5908	Sequence 6908, Ap	528	26	54.2	238	11	US-11-158-505-9	Sequence 9, Ap
456	26	54.2	23	11	US-11-226-657-225	Sequence 225, Ap	529	26	54.2	238	11	US-11-158-505-11	Sequence 11, Ap
457	26	54.2	29	11	US-11-207-078-162	Sequence 162, Ap	530	26	54.2	238	11	US-11-158-505-17	Sequence 17, Ap
458	26	54.2	31	10	US-11-298-718-28	Sequence 28, Ap	531	26	54.2	238	11	US-11-158-505-19	Sequence 19, Ap
459	26	54.2	31	11	US-11-004-399-3136	Sequence 3136, Ap	532	26	54.2	238	11	US-11-158-505-19	Sequence 19, Ap

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557	26	54.2	309	11	US-11-087-099-2163	Sequence 2163, Ap	630	26	54.2	444	11	US-11-188-298-5133	Sequence 5133, Ap
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573	26	54.2	318	11	US-11-087-099-7756	Sequence 7756, Ap	646	26	54.2	445	11	US-11-188-298-13185	Sequence 18811, A
574	26	54.2	318	11	US-11-188-298-7145	Sequence 7145, Ap	647	26	54.2	445	11	US-11-188-298-916	Sequence 916, App
575	26	54.2	325	11	US-11-087-099-92240	Sequence 92240, Ap	648	26	54.2	445	11	US-11-188-298-10681	Sequence 1038, Ap
576	26	54.2	325	11	US-11-087-099-4734	Sequence 4734, Ap	649	26	54.2	445	11	US-11-188-298-22328	Sequence 22328, A
577	26	54.2	325	11	US-11-188-298-7094	Sequence 7094, Ap	650	26	54.2	445	11	US-11-188-298-22328	Sequence 22513, A
578	26	54.2	327	11	US-11-087-099-256	Sequence 256, App	651	26	54.2	445	11	US-11-096-568A-19219	Sequence 19219, A
579	26	54.2	329	11	US-11-087-099-11839	Sequence 11839, A	652	26	54.2	446	11	US-11-188-298-916	Sequence 916, App
580	26	54.2	335	11	US-11-087-099-3023	Sequence 3023, Ap	653	26	54.2	446	11	US-11-188-298-1038	Sequence 1038, Ap
581	26	54.2	337	11	US-11-096-568A-5758	Sequence 5758, Ap	654	26	54.2	446	11	US-11-188-298-4147	Sequence 4147, Ap
582	26	54.2	343	11	US-11-087-099-5274	Sequence 5274, Ap	655	26	54.2	446	11	US-11-188-298-8390	Sequence 8390, Ap
583	26	54.2	343	11	US-11-045-004-2215	Sequence 2215, Ap	656	26	54.2	446	11	US-11-188-298-8498	Sequence 8498, Ap
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596	26	54.2	378	11	US-11-087-177-41	Sequence 41, Appl	669	26	54.2	446	11	US-11-188-298-20156	Sequence 20156, A
597	26	54.2	378	11	US-11-188-298-21644	Sequence 21644, A	670	26	54.2	446	11	US-11-188-298-20742	Sequence 20742, A
598	26	54.2	381	11	US-11-087-099-12159	Sequence 12159, A	671	26	54.2	447	11	US-11-188-298-19073	Sequence 19073, A
599	26	54.2	381	11	US-11-188-298-22282	Sequence 22282, A	672	26	54.2	447	11	US-11-188-298-17638	Sequence 17628, A
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602	26	54.2	392	9	US-10-931-198-40	Sequence 40, Appl	675	26	54.2	454	11	US-11-188-298-5667	Sequence 5667, Ap
603	26	54.2	394	11	US-11-188-298-10402	Sequence 10402, A	676	26	54.2	459	11	US-11-188-298-1104	Sequence 7104, Ap
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680	26	54.2	464	11	US-11-098-686-11345	Sequence 11345, A	753	26	54.2	893	11	US-11-022-478-2	Sequence 2, Appl1
681	26	54.2	464	11	US-11-188-298-4382	Sequence 4382, Ap	754	26	54.2	840	11	US-11-079-463-9922	Sequence 9922, Ap
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683	26	54.2	471	11	US-11-188-298-15534	Sequence 15534, A	756	26	54.2	845	11	US-11-188-298-14852	Sequence 14852, A
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686	26	54.2	475	11	US-11-096-688-34092	Sequence 34092, A	759	26	54.2	980	9	US-10-330-773-507	Sequence 507, App
687	26	54.2	480	11	US-11-096-688-19197	Sequence 19197, A	760	26	54.2	995	9	US-10-330-773-505	Sequence 505, App
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704	26	54.2	516	11	US-11-087-099-2935	Sequence 2935, Ap	777	26	54.2	1255	11	US-11-052-554A-266	Sequence 266, App
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707	26	54.2	516	11	US-11-188-298-13816	Sequence 13816, A	780	26	54.2	1255	11	US-11-052-554A-269	Sequence 269, App
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722	26	54.2	585	11	US-11-188-298-577	Sequence 577, App	795	25.5	53.1	43	11	US-11-174-341-58	Sequence 2959, Ap
723	26	54.2	587	11	US-11-096-688-27418	Sequence 27418, A	796	25.5	53.1	127	11	US-11-072-512-2359	Sequence 8796, Ap
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726	26	54.2	610	11	US-11-188-298-14804	Sequence 14804, A	799	25	52.1	10	9	US-10-530-061-560	Sequence 560, App
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728	26	54.2	621	9	US-10-973-115B-40	Sequence 40, Appl	801	25	52.1	13	11	US-11-153-143A-305	Sequence 305, App
729	26	54.2	621	9	US-10-137-873A-40	Sequence 40, Appl	802	25	52.1	14	9	US-10-895-064-1333	Sequence 1333, Ap
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738	26	54.2	646	11	US-11-188-298-1752	Sequence 1752, Ap	811	25	52.1	25	11	US-11-174-341-104	Sequence 104, App
739	26	54.2	646	11	US-11-188-298-6000	Sequence 6000, Ap	812	25	52.1	25	11	US-11-174-341-106	Sequence 106, App
740	26	54.2	672	11	US-11-188-298-18555	Sequence 6000, Ap	813	25	52.1	25	11	US-11-174-341-108	Sequence 108, App
741	26	54.2	680	11	US-11-188-298-8565	Sequence 18555, A	814	25	52.1	25	11	US-11-174-341-110	Sequence 110, App
742	26	54.2	713	11	US-11-188-298-11318	Sequence 8568, Ap	815	25	52.1	25	11	US-11-174-341-112	Sequence 112, App
743	26	54.2	718	11	US-11-147-109-6	Sequence 11318, A	816	25	52.1	25	11	US-11-174-341-114	Sequence 114, App
744	26	54.2	754	9	US-10-793-626-1296	Sequence 6, Appl1	817	25	52.1	26	11	US-11-174-341-133	Sequence 114, App
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751	26	54.2	812	11	US-11-188-298-16885	Sequence 16885, A	824	25	52.1	45	11	US-11-174-341-134	Sequence 124, App

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857	25	52.1	115	11	US-11-098-758-229	Sequence 229, App	930	25	52.1	228	11	US-11-096-568A-11356	Sequence 11356, A
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869	25	52.1	136	9	US-10-793-626-1852	Sequence 1852, App	942	25	52.1	252	11	US-11-264-444-199	Sequence 199, App
870	25	52.1	138	11	US-11-188-298-2849	Sequence 2849, Ap	943	25	52.1	252	11	US-10-995-561-961	Sequence 961, App
871	25	52.1	139	8	US-10-505-928-179	Sequence 179, App	944	25	52.1	254	9	US-11-068-859-95	Sequence 95, Appl
872	25	52.1	143	11	US-11-079-463-5329	Sequence 5329, Ap	945	25	52.1	254	11	US-11-068-859-96	Sequence 96, Appl
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874	25	52.1	145	9	US-10-485-517-402	Sequence 402, App	947	25	52.1	263	11	US-11-087-059-11678	Sequence 11678, A
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876	25	52.1	149	11	US-11-072-512-3685	Sequence 3685, Ap	949	25	52.1	266	11	US-11-096-568A-192	Sequence 192, App
877	25	52.1	149	11	US-11-188-298-1151	Sequence 1151, A	950	25	52.1	268	9	US-10-793-626-176	Sequence 176, App
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891	25	52.1	177	11	US-11-096-568A-19788	Sequence 19788, A	964	25	52.1	302	11	US-11-188-298-16181	Sequence 14699, A
892	25	52.1	177	11	US-11-188-298-10681	Sequence 10681, A	965	25	52.1	302	11	US-11-188-298-16181	Sequence 908, App
893	25	52.1	178	11	US-11-096-568A-3956	Sequence 3956, Ap	966	25	52.1	304	11	US-11-264-096-508	Sequence 908, App
894	25	52.1	178	11	US-11-096-568A-15491	Sequence 15491, A	967	25	52.1	305	11	US-11-172-740-761	Sequence 25779, A
895	25	52.1	183	11	US-11-096-568A-34204	Sequence 34204, A	968	25	52.1	312	9	US-10-537-075-15	Sequence 15, Appl
896	25	52.1	183	11	US-11-188-298-14111	Sequence 14111, A	969	25	52.1	312	9	US-10-537-075-15	Sequence 48, Appl
897	25	52.1	185	11	US-11-188-298-6492	Sequence 6492, Ap	970	25	52.1	312	11	US-11-226-657-48	Sequence 48, Appl

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971 25 52.1 312 11 US-11-087-099-427 Sequence 427, App
972 25 52.1 312 11 US-11-086-568A-31914 Sequence 31914, A
973 25 52.1 313 9 US-10-512-184-72 Sequence 72, Appl
974 25 52.1 313 9 US-10-995-561-960 Sequence 960, App
975 25 52.1 313 11 US-11-152-569-13 Sequence 13, Appl
976 25 52.1 313 11 US-11-188-298-792 Sequence 792, Appl
977 25 52.1 314 11 US-11-096-568A-30385 Sequence 30385, A
978 25 52.1 316 9 US-10-995-561-963 Sequence 963, App
979 25 52.1 316 11 US-11-055-822-58 Sequence 58, Appl
980 25 52.1 316 11 US-11-068-859-94 Sequence 94, Appl
981 25 52.1 316 11 US-11-188-298-12162 Sequence 12162, A
982 25 52.1 316 11 US-11-239-674-56 Sequence 56, Appl
983 25 52.1 318 11 US-11-021-305-168 Sequence 168, App
984 25 52.1 320 9 US-10-453-372-854 Sequence 854, App
985 25 52.1 320 11 US-11-096-568A-6440 Sequence 6440, Ap
986 25 52.1 320 11 US-11-096-568A-25778 Sequence 25778, A
987 25 52.1 321 11 US-11-096-568A-2557 Sequence 2557, Ap
988 25 52.1 327 11 US-11-188-298-9936 Sequence 9936, Ap
989 25 52.1 328 9 US-10-512-184-63 Sequence 63, Appl
990 25 52.1 329 9 US-10-512-184-68 Sequence 68, Appl
991 25 52.1 329 9 US-10-512-184-70 Sequence 70, Appl
992 25 52.1 329 11 US-11-188-298-21356 Sequence 21356, A
993 25 52.1 330 11 US-11-096-568A-2556 Sequence 2556, Ap
994 25 52.1 331 11 US-11-098-686-10338 Sequence 10338, A
995 25 52.1 331 11 US-11-096-568A-34063 Sequence 34063, A
996 25 52.1 331 11 US-11-188-298-9377 Sequence 9377, Ap
997 25 52.1 332 11 US-11-096-568A-12226 Sequence 12226, A
998 25 52.1 333 11 US-11-096-568A-6439 Sequence 6439, Ap
999 25 52.1 333 11 US-11-096-568A-30384 Sequence 30384, A
1000 25 52.1 333 11 US-11-096-568A-34062 Sequence 34062, A
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ALIGNMENTS

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RESULT 1
US-10-530-253-13
; Sequence 13, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Casasetti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: US/10/530, 253
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415, 929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 13
; LENGTH: 151
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-10-530-253-13
```

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Query Match 100.0%; Score 48; DB 9; Length 151;
Best Local Similarity 100.0%; Pred. No. 0.052;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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Qy 1 VYCKQQLR 9
    |||||
Db 31 VYCKQQLR 39
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RESULT 2
US-11-206-138-3
; Sequence 3, Application US/11206138
; Publication No. US20060039919A1
```

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; GENERAL INFORMATION:
; APPLICANT: Healthshare Biotech CO. LTD.
; TITLE OF INVENTION: Fusion protein for inhibiting cervical cancer
; FILE REFERENCE: P7819/0613
; CURRENT APPLICATION NUMBER: US/11/206,138
; CURRENT FILING DATE: 2005-08-18
; NUMBER OF SEQ ID NOS: 14
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 3
; LENGTH: 158
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-11-206-138-3

Query Match 100.0%; Score 48; DB 11; Length 158;
Best Local Similarity 100.0%; Pred. No. 0.054;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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```
Qy 1 VYCKQQLR 9
    |||||
Db 38 VYCKQQLR 46
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```
RESULT 3
US-10-530-253-1
; Sequence 1, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Casasetti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415, 929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 1
; LENGTH: 248
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-10-530-253-1
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Query Match 100.0%; Score 48; DB 9; Length 248;
Best Local Similarity 100.0%; Pred. No. 0.079;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy 1 VYCKQQLR 9
    |||||
Db 31 VYCKQQLR 39
```

```
RESULT 4
US-10-530-253-3
; Sequence 3, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Casasetti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415, 929
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;; PRIOR FILING DATE: 2002-10-03
;; NUMBER OF SEQ ID NOS: 65
;; SOFTWARE: PatentIn version 3.1
;; SEQ ID NO: 3
;; LENGTH: 248
;; TYPE: PRT
;; ORGANISM: Human papillomavirus type 16
US-10-530-253-3

Query Match 100.0%; Score 48; DB 9; Length 248;
Best Local Similarity 100.0%; Pred. No. 0.079;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 VYCKQQLLR 9
|||
Db 31 VYCKQQLLR 39

RESULT 5
US-10-530-253-5
; Sequence 5, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Cassetti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; PRIOR FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO: 5
; LENGTH: 248
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-10-530-253-5

Query Match 100.0%; Score 48; DB 9; Length 248;
Best Local Similarity 100.0%; Pred. No. 0.079;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 VYCKQQLLR 9
|||
Db 31 VYCKQQLLR 39

RESULT 6
US-10-530-253-7
; Sequence 7, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Cassetti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; PRIOR FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO: 7
; LENGTH: 248

;; TYPE: PRT
;; ORGANISM: Human papillomavirus type 16
US-10-530-253-7

Query Match 100.0%; Score 48; DB 9; Length 248;
Best Local Similarity 100.0%; Pred. No. 0.079;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 VYCKQQLLR 9
|||
Db 128 VYCKQQLLR 136

RESULT 7
US-10-530-253-9
; Sequence 9, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Cassetti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; PRIOR FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO: 9
; LENGTH: 248
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-10-530-253-9

Query Match 100.0%; Score 48; DB 9; Length 248;
Best Local Similarity 100.0%; Pred. No. 0.079;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 VYCKQQLLR 9
|||
Db 128 VYCKQQLLR 136

RESULT 8
US-10-530-253-11
; Sequence 11, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Cassetti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; PRIOR FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO: 11
; LENGTH: 248
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-10-530-253-11

Query Match 100.0%; Score 48; DB 9; Length 248;

Best Local Similarity 100.0%; Pred. No. 0.079;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 VYCKQQLLR 9
|||
Db 128 VYCKQQLLR 136

RESULT 9
US-11-192-923A-2
; Sequence 2, Application US/11192923A
; Publication No. US20060018928A1
; GENERAL INFORMATION:
; APPLICANT: PANQ, XIAOMU
; TITLE OF INVENTION: VIRUS-LIKE PARTICLE CONTAINING A DENGUE VIRUS
; FILE REFERENCE: 116620-003
; CURRENT APPLICATION NUMBER: US/11/192,923A
; PRIOR FILING DATE: 2005-07-29
; PRIOR APPLICATION NUMBER: CN 03115272.4
; PRIOR FILING DATE: 2003-01-30
; PRIOR APPLICATION NUMBER: CN 03115273.2
; NUMBER OF SEQ ID NOS: 45
; SOFTWARE: PatentIn Ver. 3.3
; SEQ ID NO 2
; LENGTH: 256
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-11-192-923A-2

Query Match 100.0%; Score 48; DB 11; Length 256;
Best Local Similarity 100.0%; Pred. No. 0.081;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 VYCKQQLLR 9
|||
Db 136 VYCKQQLLR 144

RESULT 10
US-10-530-253-18
; Sequence 18, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Casasetti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; PRIOR FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 18
; LENGTH: 149
; TYPE: PRT
; ORGANISM: Human papillomavirus type 35
US-10-530-253-18

Query Match 81.2%; Score 39; DB 9; Length 149;
Best Local Similarity 77.8%; Pred. No. 2.5;
Matches 7; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 VYCKQQLLR 9
|||
Db 31 VYCKQQLLR 39

RESULT 11
US-10-530-061-1692

; Sequence 1692, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.03US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; PRIOR FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1692
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-1692

Query Match 75.0%; Score 36; DB 9; Length 15;
Best Local Similarity 66.7%; Pred. No. 1.3;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 VYCKQQLLR 9
|||
Db 3 VYCKQQLLR 11

RESULT 12
US-10-530-253-21
; Sequence 21, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Casasetti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; PRIOR FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 21
; LENGTH: 151
; TYPE: PRT
; ORGANISM: Human papillomavirus type 51
US-10-530-253-21

Query Match 75.0%; Score 36; DB 9; Length 151;
Best Local Similarity 66.7%; Pred. No. 9.4;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 VYCKQQLLR 9
|||
Db 31 VYCKQQLLR 39

RESULT 13
US-10-530-253-23
; Sequence 23, Application US/10530253


```
Publication No. US20060014926A1
GENERAL INFORMATION:
APPLICANT: Casasetti, Maria C.
APPLICANT: Smith, Larry
APPLICANT: Jeffrey K. Fullen
APPLICANT: Susan P. McElhinney
TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
FILE REFERENCE: 00630/100M137-US2
CURRENT APPLICATION NUMBER: US/10/530,253
CURRENT FILING DATE: 2005-04-04
PRIOR APPLICATION NUMBER: PCT/US2003/031726
PRIOR FILING DATE: 2003-10-02
PRIOR APPLICATION NUMBER: US 60/415,929
PRIOR FILING DATE: 2002-10-03
NUMBER OF SEQ ID NOS: 65
SOFTWARE: PatentIn version 3.1
SEQ ID NO 23
LENGTH: 155
TYPE: PRT
ORGANISM: Human papillomavirus type 56
US-10-530-253-23
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Query Match          75.0%; Score 36; DB 9; Length 155;
Best Local Similarity 66.7%; Pred. No. 9.7;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;
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```
OY      1 VYCKQOLLR 9
Db      34 VYCKEKLIR 42
```

```
RESULT 14
US-10-505-928-175
Sequence 175, Application US/10505928
Publication No. US20060088532A1
GENERAL INFORMATION:
APPLICANT: Ludwig Institute for Cancer Research et al.
TITLE OF INVENTION: LYMPHATIC ENDOTHELIAL GENES
FILE REFERENCE: 28967/39178
CURRENT APPLICATION NUMBER: US/10/505,928
CURRENT FILING DATE: 2004-08-27
PRIOR APPLICATION NUMBER: US 60/363,019
PRIOR FILING DATE: 2002-03-07
NUMBER OF SEQ ID NOS: 866
SOFTWARE: PatentIn 3.2
SEQ ID NO 175
LENGTH: 1085
TYPE: PRT
ORGANISM: Homo sapiens
US-10-505-928-175
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Query Match          75.0%; Score 36; DB 8; Length 1085;
Best Local Similarity 55.6%; Pred. No. 50;
Matches 5; Conservative 4; Mismatches 0; Indels 0; Gaps 0;
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```
OY      1 VYCKQOLLR 9
Db      236 WYCKEKLIR 244
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RESULT 15
US-10-523-477-13
Sequence 13, Application US/10523477
Publication No. US20050266406A1
GENERAL INFORMATION:
APPLICANT: EXELIXIS, INC.
TITLE OF INVENTION: MAXS AS MODIFIERS OF THE AXIN PATHWAY AND METHODS OF USE
FILE REFERENCE: EX03-051C-US
CURRENT APPLICATION NUMBER: US/10/523,477
CURRENT FILING DATE: 2005-02-04
PRIOR APPLICATION NUMBER: US 60/401,534
PRIOR FILING DATE: 2002-08-07
PRIOR APPLICATION NUMBER: US 60/411,153
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PRIOR FILING DATE: 2002-09-16
NUMBER OF SEQ ID NOS: 14
SOFTWARE: PatentIn version 3.2
SEQ ID NO 13
LENGTH: 1085
TYPE: PRT
ORGANISM: Homo sapiens
US-10-523-477-13
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Query Match          75.0%; Score 36; DB 9; Length 1085;
Best Local Similarity 55.6%; Pred. No. 50;
Matches 5; Conservative 4; Mismatches 0; Indels 0; Gaps 0;
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```
OY      1 VYCKQOLLR 9
Db      236 WYCKEKLIR 244
```

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RESULT 16
US-10-530-253-26
Sequence 26, Application US/10530253
Publication No. US20060014926A1
GENERAL INFORMATION:
APPLICANT: Casasetti, Maria C.
APPLICANT: Smith, Larry
APPLICANT: Jeffrey K. Fullen
APPLICANT: Susan P. McElhinney
TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
FILE REFERENCE: 00630/100M137-US2
CURRENT APPLICATION NUMBER: US/10/530,253
CURRENT FILING DATE: 2005-04-04
PRIOR APPLICATION NUMBER: PCT/US2003/031726
PRIOR FILING DATE: 2003-10-02
PRIOR APPLICATION NUMBER: US 60/415,929
PRIOR FILING DATE: 2002-10-03
NUMBER OF SEQ ID NOS: 65
SOFTWARE: PatentIn version 3.1
SEQ ID NO 26
LENGTH: 158
TYPE: PRT
ORGANISM: Human papillomavirus type 68
US-10-530-253-26
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Query Match          72.9%; Score 35; DB 9; Length 158;
Best Local Similarity 66.7%; Pred. No. 15;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;
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```
OY      1 VYCKQOLLR 9
Db      33 VYCKROLIR 41
```

```
RESULT 17
US-11-188-298-16534
Sequence 16534, Application US/11188298
Publication No. US20060075522A1
GENERAL INFORMATION:
APPLICANT: Adad, Mark S. et al.
TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
FILE REFERENCE: 38-21(53452)B
CURRENT APPLICATION NUMBER: US/11/188,298
CURRENT FILING DATE: 2005-07-22
PRIOR APPLICATION NUMBER: 60/592,978
PRIOR FILING DATE: 2004-07-31
NUMBER OF SEQ ID NOS: 22569
SEQ ID NO 16534
LENGTH: 354
TYPE: PRT
ORGANISM: Ustilago maydis
US-11-188-298-16534
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Query Match          72.9%; Score 35; DB 11; Length 354;
Best Local Similarity 75.0%; Pred. No. 30;
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Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 2 VYCKQQLR 9
|||:|

Db 334 YCKEQLSR 341

RESULT 18
US-10-821-234-1523

; Sequence 1523, Application US/10821234
; Publication No. US20050255114A1

; GENERAL INFORMATION:

; APPLICANT: Labat, Ivan

; APPLICANT: Stache-Crain, Birgit

; APPLICANT: Andarmant, Susan

; APPLICANT: Tang, Y. Tom

; TITLE OF INVENTION: Methods for Diagnosis and Treatment of Preeclampsia

; FILE REFERENCE: 821A

; CURRENT APPLICATION NUMBER: US/10/821,234

; CURRENT FILING DATE: 2004-04-07

; PRIOR APPLICATION NUMBER: US 60/462,047

; PRIOR FILING DATE: 2003-04-07

; NUMBER OF SEQ ID NOS: 1704

; SOFTWARE: PC SEQ_genes Version 1.0

; SEQ ID NO 1523

; LENGTH: 897

; TYPE: PRT

; ORGANISM: Homo sapiens

US-10-821-234-1523

Query Match 72.9%; Score 35; DB 9; Length 897;

Best Local Similarity 66.7%; Pred. No. 66;

Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 VYCKQQLR 9
|||:|

Db 489 VFCPEQLR 497

RESULT 19
US-10-729-121-17

; Sequence 17, Application US/10729121

; Publication No. US20040144397A1

; GENERAL INFORMATION:

; APPLICANT: Conkling, Mark

; TITLE OF INVENTION: MODIFYING NICOTINE AND NITROSAMINE

; FILE REFERENCE: VTOB_033C1

; CURRENT APPLICATION NUMBER: US/10/729,121

; CURRENT FILING DATE: 2003-12-04

; PRIOR APPLICATION NUMBER: 60/297,154

; PRIOR FILING DATE: 2001-06-08

; PRIOR APPLICATION NUMBER: PCTUS02/18040

; PRIOR FILING DATE: 2002-06-06

; NUMBER OF SEQ ID NOS: 58

; SOFTWARE: FastSeq for Windows Version 4.0

; SEQ ID NO 17

; LENGTH: 28

; TYPE: PRT

; ORGANISM: Saccharomyces cerevisiae

US-10-729-121-17

Query Match 68.8%; Score 33; DB 9; Length 28;

Best Local Similarity 62.5%; Pred. No. 8.4;

Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 VYCKQQLR 8
|||:|

Db 17 LYCKQDML 24

RESULT 20

US-11-285-537-17

; Sequence 17, Application US/11285537
; Publication No. US20060606211A1

; GENERAL INFORMATION:

; APPLICANT: Conkling, Mark

; TITLE OF INVENTION: MODIFYING NICOTINE AND NITROSAMINE

; FILE REFERENCE: VTOB_033C1C1

; CURRENT APPLICATION NUMBER: US/11/285,537

; CURRENT FILING DATE: 2005-11-22

; PRIOR APPLICATION NUMBER: 11/077,752

; PRIOR FILING DATE: 2005-03-10

; PRIOR APPLICATION NUMBER: 10/729,121

; PRIOR FILING DATE: 2003-12-05

; PRIOR APPLICATION NUMBER: PCTUS02/18040

; PRIOR FILING DATE: 2002-06-06

; PRIOR APPLICATION NUMBER: 60/297,154

; PRIOR FILING DATE: 2001-06-08

; NUMBER OF SEQ ID NOS: 58

; SOFTWARE: FastSeq for Windows Version 4.0

; SEQ ID NO 17

; LENGTH: 28

; TYPE: PRT

; ORGANISM: Saccharomyces cerevisiae

US-11-285-537-17

Query Match 68.8%; Score 33; DB 11; Length 28;

Best Local Similarity 62.5%; Pred. No. 8.4;

Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 VYCKQQLR 8
|||:|

Db 17 LYCKQDML 24

RESULT 21
US-10-530-253-39

; Sequence 39, Application US/10530253

; Publication No. US20060014926A1

; GENERAL INFORMATION:

; APPLICANT: Casasetti, Maria C.

; APPLICANT: Smith, Larry

; APPLICANT: Jeffrey K. Pullen

; APPLICANT: Susan P. McShinley

; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS

; FILE REFERENCE: 00630/100M137-US2

; CURRENT APPLICATION NUMBER: US/10/530,253

; CURRENT FILING DATE: 2005-04-04

; PRIOR APPLICATION NUMBER: PCT/US2003/031726

; PRIOR FILING DATE: 2003-10-02

; PRIOR APPLICATION NUMBER: US 60/415,929

; PRIOR FILING DATE: 2002-10-03

; NUMBER OF SEQ ID NOS: 65

; SOFTWARE: PatentIn version 3.1

; SEQ ID NO 39

; LENGTH: 152

; TYPE: PRT

; ORGANISM: Human papillomavirus

; FEATURE:

; NAME/KEY: MISC_FEATURE

; LOCATION: (1)..(152)

; OTHER INFORMATION: where Xaa is any amino acid

US-10-530-253-39

Query Match 68.8%; Score 33; DB 9; Length 152;

Best Local Similarity 66.7%; Pred. No. 35;

Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 VYCKQQLR 9
|||:|

Db 33 VYCKQZLZR 41

RESULT 22

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US-10-530-253-16
; Sequence 16, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Casaretti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 16
; LENGTH: 149
; TYPE: PRT
; ORGANISM: Human papillomavirus type 31
US-10-530-253-16

Query Match      66.7%; Score 32; DB 9; Length 149;
Best Local Similarity 85.7%; Pred. No. 53;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1 VYCKQQL 7
Db      31 VYCKQQL 37

RESULT 23
US-11-098-686-11346
; Sequence 11346, Application US/11098686
; Publication No. US20060024696A1
; GENERAL INFORMATION:
; APPLICANT: Kapur, Vivek and Gebhart, Connie J.
; TITLE OF INVENTION: NUCLEIC ACID AND POLYPEPTIDE SEQUENCES
; FILE REFERENCE: 09531-128001
; CURRENT APPLICATION NUMBER: US/11/098,686
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31318
; PRIOR FILING DATE: 2003-10-01
; PRIOR APPLICATION NUMBER: US 60/416,395
; PRIOR FILING DATE: 2002-10-04
; NUMBER OF SEQ ID NOS: 11433
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 11346
; LENGTH: 358
; TYPE: PRT
; ORGANISM: Lawsonia intracellularis
US-11-098-686-11346

Query Match      66.7%; Score 32; DB 11; Length 358;
Best Local Similarity 75.0%; Pred. No. 1.1e+02;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY      1 VYCKQQL 8
Db      279 VYCKQQL 286

RESULT 24
US-11-195-851-18
; Sequence 18, Application US/11195851
; Publication No. US2006005823A1
; GENERAL INFORMATION:
; APPLICANT: M1, Sha
; APPLICANT: Browning, Jeffrey L.
; TITLE OF INVENTION: TAJ in Neuronal Function
```

```
FILE REFERENCE: 2159, 0560001/EKS/EJH
; CURRENT APPLICATION NUMBER: US/11/195,851
; CURRENT FILING DATE: 2005-08-03
; PRIOR APPLICATION NUMBER: US 60/598,247
; PRIOR FILING DATE: 2004-08-03
; NUMBER OF SEQ ID NOS: 25
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 18
; LENGTH: 416
; TYPE: PRT
; ORGANISM: Mus musculus
US-11-195-851-18

Query Match      66.7%; Score 32; DB 11; Length 416;
Best Local Similarity 50.0%; Pred. No. 1.3e+02;
Matches 4; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY      1 VYCKQQL 8
Db      191 VYCKQQL 198

RESULT 25
US-10-194-487-474
; Sequence 474, Application US/10194487
; Publication No. US20060074226A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Chen, Jian
; APPLICANT: Deanovs, Luc
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Pan, James
; APPLICANT: Smith, Victoria
; APPLICANT: Matanabe, Colin K.
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3430R1C312
; CURRENT APPLICATION NUMBER: US/10/194,487
; CURRENT FILING DATE: 2002-07-12
; PRIOR APPLICATION NUMBER: 10/052586
; PRIOR FILING DATE: 2002-01-15
; PRIOR APPLICATION NUMBER: 60/059263
; PRIOR FILING DATE: 1997-09-18
; PRIOR APPLICATION NUMBER: 60/059266
; PRIOR FILING DATE: 1997-09-18
; PRIOR APPLICATION NUMBER: 60/062250
; PRIOR FILING DATE: 1997-10-17
; PRIOR APPLICATION NUMBER: 60/063120
; PRIOR FILING DATE: 1997-10-24
; PRIOR APPLICATION NUMBER: 60/063121
; PRIOR FILING DATE: 1997-10-24
; PRIOR APPLICATION NUMBER: 60/063486
; PRIOR FILING DATE: 1997-10-21
; PRIOR APPLICATION NUMBER: 60/063540
; PRIOR FILING DATE: 1997-10-28
; PRIOR APPLICATION NUMBER: 60/063541
; PRIOR FILING DATE: 1997-10-28
; PRIOR APPLICATION NUMBER: 60/063544
; PRIOR FILING DATE: 1997-10-28
; PRIOR APPLICATION data removed - See file wrapper or PALM.
; NUMBER OF SEQ ID NOS: 612
; SEQ ID NO 474
; LENGTH: 417
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-194-487-474

Query Match      66.7%; Score 32; DB 9; Length 417;
Best Local Similarity 50.0%; Pred. No. 1.3e+02;
```

Matches 4; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 1 VYCKQQL 8
:||||:

Db 191 IYCKRQFM 198

RESULT 26

US-10-195-883-474

; Sequence 474, Application US/10195883
; Publication No. US20060073544A1

; GENERAL INFORMATION:

; APPLICANT: Baker, Kevin P.

; APPLICANT: Chen, Jlan

; APPLICANT: Desnoyers, Luc

; APPLICANT: Goddard, Audrey

; APPLICANT: Godowski, Paul J.

; APPLICANT: Gurney, Austin L.

; APPLICANT: Pan, James

; APPLICANT: Smith, Victoria

; APPLICANT: Watanabe, Colin K.

; APPLICANT: Wood, William I.

; APPLICANT: Zhang, Zemin

; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC

; FILE REFERENCE: P3430R1C323

; CURRENT APPLICATION NUMBER: US/10/195,883

; CURRENT FILING DATE: 2002-07-15

; Prior Application removed - See File Wrapper or Palm

; NUMBER OF SEQ ID NOS: 612

; SEQ ID NO 474

; LENGTH: 417

; TYPE: PRT

; ORGANISM: Homo Sapien

US-10-195-883-474

Query Match 66.7%; Score 32; DB 9; Length 417;
Best Local Similarity 50.0%; Pred. No. 1.3e+02;
Matches 4; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 1 VYCKQQL 8
:||||:

Db 191 IYCKRQFM 198

RESULT 27

US-10-195-888-474

; Sequence 474, Application US/10195888
; Publication No. US20060073545A1

; GENERAL INFORMATION:

; APPLICANT: Baker, Kevin P.

; APPLICANT: Chen, Jlan

; APPLICANT: Desnoyers, Luc

; APPLICANT: Goddard, Audrey

; APPLICANT: Godowski, Paul J.

; APPLICANT: Gurney, Austin L.

; APPLICANT: Pan, James

; APPLICANT: Smith, Victoria

; APPLICANT: Watanabe, Colin K.

; APPLICANT: Wood, William I.

; APPLICANT: Zhang, Zemin

; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC

; FILE REFERENCE: P3430R1C324

; CURRENT APPLICATION NUMBER: US/10/195,888

; CURRENT FILING DATE: 2002-07-15

; Prior Application removed - See File Wrapper or Palm

; NUMBER OF SEQ ID NOS: 612

; SEQ ID NO 474

; LENGTH: 417

; TYPE: PRT

; ORGANISM: Homo Sapien

US-10-195-888-474

Query Match 66.7%; Score 32; DB 9; Length 417;

Best Local Similarity 50.0%; Pred. No. 1.3e+02;
Matches 4; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 1 VYCKQQL 8
:||||:

Db 191 IYCKRQFM 198

RESULT 28

US-10-195-889-474

; Sequence 474, Application US/10195889
; Publication No. US20060074227A1

; GENERAL INFORMATION:

; APPLICANT: Baker, Kevin P.

; APPLICANT: Chen, Jlan

; APPLICANT: Desnoyers, Luc

; APPLICANT: Goddard, Audrey

; APPLICANT: Godowski, Paul J.

; APPLICANT: Gurney, Austin L.

; APPLICANT: Pan, James

; APPLICANT: Smith, Victoria

; APPLICANT: Watanabe, Colin K.

; APPLICANT: Wood, William I.

; APPLICANT: Zhang, Zemin

; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC

; FILE REFERENCE: P3430R1C329

; CURRENT APPLICATION NUMBER: US/10/195,889

; CURRENT FILING DATE: 2002-07-15

; Prior Application removed - See File Wrapper or Palm

; NUMBER OF SEQ ID NOS: 612

; SEQ ID NO 474

; LENGTH: 417

; TYPE: PRT

; ORGANISM: Homo Sapien

US-10-195-889-474

Query Match 66.7%; Score 32; DB 9; Length 417;
Best Local Similarity 50.0%; Pred. No. 1.3e+02;
Matches 4; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 1 VYCKQQL 8
:||||:

Db 191 IYCKRQFM 198

RESULT 29

US-10-218-784-220

; Sequence 220, Application US/10218784
; Publication No. US20060074223A1

; GENERAL INFORMATION:

; APPLICANT: Baker, Kevin P.

; APPLICANT: Desnoyers, Luc

; APPLICANT: Gerritsen, Mary

; APPLICANT: Goddard, Audrey

; APPLICANT: Godowski, Paul J.

; APPLICANT: Grimaldi, J. Christopher

; APPLICANT: Gurney, Austin L.

; APPLICANT: Smith, Victoria

; APPLICANT: Stephan, Jean-Philippe F.

; APPLICANT: Watanabe, Colin L.

; APPLICANT: Wood, William I.

; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC

; FILE REFERENCE: P3530P1C18

; CURRENT APPLICATION NUMBER: US/10/218,784

; CURRENT FILING DATE: 2002-08-12

; Prior Application removed - See File Wrapper or Palm

; NUMBER OF SEQ ID NOS: 612

; SEQ ID NO 474

; LENGTH: 417

; TYPE: PRT

; ORGANISM: Homo Sapien

US-10-195-888-474

PRIOR APPLICATION NUMBER: 60/062287
PRIOR FILING DATE: 1997-10-17
PRIOR APPLICATION NUMBER: 60/063549
PRIOR FILING DATE: 1997-10-28
PRIOR APPLICATION NUMBER: 60/064103
PRIOR FILING DATE: 1997-10-31
PRIOR APPLICATION NUMBER: 60/069873
PRIOR FILING DATE: 1997-12-17
PRIOR APPLICATION NUMBER: 60/078910
PRIOR FILING DATE: 1998-03-20
PRIOR APPLICATION NUMBER: 60/079294
PRIOR FILING DATE: 1998-03-25
PRIOR APPLICATION NUMBER: 60/079656
PRIOR FILING DATE: 1998-03-26
PRIOR APPLICATION NUMBER: 60/079728
PRIOR FILING DATE: 1998-03-27
PRIOR APPLICATION NUMBER: 60/081819
PRIOR FILING DATE: 1998-04-15
PRIOR APPLICATION NUMBER: 60/081955
PRIOR FILING DATE: 1998-04-15
PRIOR APPLICATION NUMBER: 60/082804
PRIOR FILING DATE: 1998-04-22
PRIOR APPLICATION NUMBER: 60/084441
PRIOR FILING DATE: 1998-05-06
PRIOR APPLICATION NUMBER: 60/085323
PRIOR FILING DATE: 1998-05-13
PRIOR APPLICATION NUMBER: 60/085579
PRIOR FILING DATE: 1998-05-15
PRIOR APPLICATION NUMBER: 60/086392
PRIOR FILING DATE: 1998-05-22
PRIOR APPLICATION NUMBER: 60/089532
PRIOR FILING DATE: 1998-06-17
PRIOR APPLICATION NUMBER: 60/089538
PRIOR FILING DATE: 1998-06-17
PRIOR APPLICATION NUMBER: 60/089905
PRIOR FILING DATE: 1998-06-18
PRIOR APPLICATION NUMBER: 60/090472
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090557
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090691
PRIOR FILING DATE: 1998-06-25
PRIOR APPLICATION NUMBER: 60/090695
PRIOR FILING DATE: 1998-06-25
PRIOR APPLICATION NUMBER: 60/091982
PRIOR FILING DATE: 1998-07-07
PRIOR APPLICATION NUMBER: 60/095302
PRIOR FILING DATE: 1998-08-04
PRIOR APPLICATION NUMBER: 60/095318
PRIOR FILING DATE: 1998-08-04
PRIOR APPLICATION NUMBER: 60/095916
PRIOR FILING DATE: 1998-08-10
PRIOR APPLICATION NUMBER: 60/096146
PRIOR FILING DATE: 1998-08-11
PRIOR APPLICATION NUMBER: 60/096791
PRIOR FILING DATE: 1998-08-17
PRIOR APPLICATION NUMBER: 60/097986
PRIOR FILING DATE: 1998-08-26
PRIOR APPLICATION NUMBER: 60/098544
PRIOR FILING DATE: 1998-08-31
PRIOR APPLICATION NUMBER: 60/099596
PRIOR FILING DATE: 1998-09-09
PRIOR APPLICATION NUMBER: 60/099598
PRIOR FILING DATE: 1998-09-09
PRIOR APPLICATION NUMBER: 60/099803
PRIOR FILING DATE: 1998-09-10
PRIOR APPLICATION NUMBER: 60/099811
PRIOR FILING DATE: 1998-09-10
PRIOR APPLICATION NUMBER: 60/099812
PRIOR FILING DATE: 1998-09-10
PRIOR APPLICATION NUMBER: 60/099816
PRIOR FILING DATE: 1998-09-10
PRIOR APPLICATION NUMBER: 60/100038

PRIOR FILING DATE: 1998-09-11
PRIOR APPLICATION NUMBER: 60/100385
PRIOR FILING DATE: 1998-09-15
PRIOR APPLICATION NUMBER: 60/100390
PRIOR FILING DATE: 1998-09-15
PRIOR APPLICATION NUMBER: 60/100627
PRIOR FILING DATE: 1998-09-16
PRIOR APPLICATION NUMBER: 60/100848
PRIOR FILING DATE: 1998-09-18
PRIOR APPLICATION NUMBER: 60/100919
PRIOR FILING DATE: 1998-09-17
PRIOR APPLICATION NUMBER: 60/101477
PRIOR FILING DATE: 1998-09-23
PRIOR APPLICATION NUMBER: 60/101738
PRIOR FILING DATE: 1998-09-24
PRIOR APPLICATION NUMBER: 60/101741
PRIOR FILING DATE: 1998-09-24
PRIOR APPLICATION NUMBER: 60/101786
PRIOR FILING DATE: 1998-09-25
PRIOR APPLICATION NUMBER: 60/101916
PRIOR FILING DATE: 1998-09-24
PRIOR APPLICATION NUMBER: 60/101922
PRIOR FILING DATE: 1998-09-24
PRIOR APPLICATION NUMBER: 60/106178
PRIOR FILING DATE: 1998-10-28
PRIOR APPLICATION NUMBER: 60/106248
PRIOR FILING DATE: 1998-10-29
PRIOR APPLICATION NUMBER: 60/106464
PRIOR FILING DATE: 1998-10-30
PRIOR APPLICATION NUMBER: 60/106905
PRIOR FILING DATE: 1998-11-03
PRIOR APPLICATION NUMBER: 60/108787
PRIOR FILING DATE: 1998-11-17
PRIOR APPLICATION NUMBER: 60/108801
PRIOR FILING DATE: 1998-11-17
PRIOR APPLICATION NUMBER: 60/108849
PRIOR FILING DATE: 1998-11-18
PRIOR APPLICATION NUMBER: 60/112422
PRIOR FILING DATE: 1998-12-15
PRIOR APPLICATION NUMBER: 60/11296
PRIOR FILING DATE: 1998-12-22
PRIOR APPLICATION NUMBER: 60/113605
PRIOR FILING DATE: 1998-12-23
PRIOR APPLICATION NUMBER: 60/113621
PRIOR FILING DATE: 1998-12-23
PRIOR APPLICATION NUMBER: 60/115558
PRIOR FILING DATE: 1999-01-12
PRIOR APPLICATION NUMBER: 60/115565
PRIOR FILING DATE: 1999-01-12
PRIOR APPLICATION NUMBER: 60/115733
PRIOR FILING DATE: 1999-01-12
PRIOR APPLICATION NUMBER: 60/119549
PRIOR FILING DATE: 1999-02-10
PRIOR APPLICATION NUMBER: 60/123618
PRIOR FILING DATE: 1999-03-10
PRIOR APPLICATION NUMBER: 60/125259
PRIOR FILING DATE: 1999-03-19
PRIOR APPLICATION NUMBER: 60/125775
PRIOR FILING DATE: 1999-03-23
PRIOR APPLICATION NUMBER: 60/126773
PRIOR FILING DATE: 1999-03-29
PRIOR APPLICATION NUMBER: 60/127887
PRIOR FILING DATE: 1999-04-05
PRIOR APPLICATION NUMBER: 60/130232
PRIOR FILING DATE: 1999-04-21
PRIOR APPLICATION NUMBER: 60/131022
PRIOR FILING DATE: 1999-04-26
PRIOR APPLICATION NUMBER: 60/131270
PRIOR FILING DATE: 1999-04-27
PRIOR APPLICATION NUMBER: 60/131291
PRIOR FILING DATE: 1999-04-27
PRIOR APPLICATION NUMBER: 60/131445
PRIOR FILING DATE: 1999-04-28

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;; PRIOR APPLICATION NUMBER: 60/134287
;; PRIOR FILING DATE: 1999-05-14
;; PRIOR APPLICATION NUMBER: 60/140650
;; PRIOR FILING DATE: 1999-06-22
;; PRIOR APPLICATION NUMBER: 60/140723
;; PRIOR FILING DATE: 1999-06-22
;; PRIOR APPLICATION NUMBER: 60/141037
;; PRIOR FILING DATE: 1999-06-22
;; PRIOR APPLICATION NUMBER: 60/144758
;; PRIOR FILING DATE: 1999-07-20
;; PRIOR APPLICATION NUMBER: 60/145698
;; PRIOR FILING DATE: 1999-07-26
;; PRIOR APPLICATION NUMBER: 60/146222
;; PRIOR FILING DATE: 1999-07-28
;; PRIOR APPLICATION NUMBER: 60/146963
;; PRIOR FILING DATE: 1999-08-03
;; PRIOR APPLICATION NUMBER: 60/149320
;; PRIOR FILING DATE: 1999-08-17
;; PRIOR APPLICATION NUMBER: 60/149638
;; PRIOR FILING DATE: 1999-08-17
;; PRIOR APPLICATION NUMBER: 60/151733
;; PRIOR FILING DATE: 1999-08-31
;; PRIOR APPLICATION NUMBER: 60/164418
;; PRIOR FILING DATE: 1999-11-09
;; PRIOR APPLICATION NUMBER: 60/166361
;; PRIOR FILING DATE: 1999-11-16
;; PRIOR APPLICATION NUMBER: 60/169445
;; PRIOR FILING DATE: 1999-12-07
;; PRIOR APPLICATION NUMBER: 60/169495
;; PRIOR FILING DATE: 1999-12-07
;; PRIOR APPLICATION NUMBER: 60/169835

Query Match      66.7%; Score 32; DB 9; Length 417;
Best Local Similarity 50.0%; Pred. No. 1.3e+02;
Matches 4; Conservative 3; Mismatches 1; Indels 0; Gaps 0;
```

```
OY      1 VYCKQQLL 8
Db      191 IYCKRQFM 198
```

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RESULT 30
US-10-219-061-220
; Sequence 220, Application US/10219061
; Publication No. US20060074224A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Desnoyers, Luc
; APPLICANT: Gerdtisen, Mary
; APPLICANT: Goddard, Audrey
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Smith, Victoria
; APPLICANT: Stephan, Jean-Philippe F.
; APPLICANT: Watanabe, Colin L.
; APPLICANT: Wood, William I.
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3530P1C17
; CURRENT APPLICATION NUMBER: US/10/219,061
; CURRENT FILING DATE: 2002-08-12
; PRIOR APPLICATION NUMBER: 10/119,480
; PRIOR FILING DATE: 2002-04-09
; PRIOR APPLICATION NUMBER: 60/059113
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/062287
; PRIOR FILING DATE: 1997-10-17
; PRIOR APPLICATION NUMBER: 60/063549
; PRIOR FILING DATE: 1997-10-28
; PRIOR APPLICATION NUMBER: 60/064103
; PRIOR FILING DATE: 1997-10-31
; PRIOR APPLICATION NUMBER: 60/069873
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;; PRIOR FILING DATE: 1997-12-17
;; PRIOR APPLICATION NUMBER: 60/078910
;; PRIOR FILING DATE: 1998-03-20
;; PRIOR APPLICATION NUMBER: 60/079294
;; PRIOR FILING DATE: 1998-03-25
;; PRIOR APPLICATION NUMBER: 60/079656
;; PRIOR FILING DATE: 1998-03-26
;; PRIOR APPLICATION NUMBER: 60/079728
;; PRIOR FILING DATE: 1998-03-27
;; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 246
; SEQ ID NO 220
; LENGTH: 417
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-219-061-220
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```
Query Match      66.7%; Score 32; DB 9; Length 417;
Best Local Similarity 50.0%; Pred. No. 1.3e+02;
Matches 4; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

OY      1 VYCKQQLL 8
Db      191 IYCKRQFM 198
```

```
RESULT 31
US-10-219-062-220
; Sequence 220, Application US/10219062
; Publication No. US20060074220A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Desnoyers, Luc
; APPLICANT: Gerdtisen, Mary
; APPLICANT: Goddard, Audrey
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Smith, Victoria
; APPLICANT: Stephan, Jean-Philippe F.
; APPLICANT: Watanabe, Colin L.
; APPLICANT: Wood, William I.
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3530P1C17
; CURRENT APPLICATION NUMBER: US/10/219,062
; CURRENT FILING DATE: 2002-08-12
; PRIOR APPLICATION NUMBER: 10/119,480
; PRIOR FILING DATE: 2002-04-09
; PRIOR APPLICATION NUMBER: 60/059113
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/062287
; PRIOR FILING DATE: 1997-10-17
; PRIOR APPLICATION NUMBER: 60/063549
; PRIOR FILING DATE: 1997-10-28
; PRIOR APPLICATION NUMBER: 60/064103
; PRIOR FILING DATE: 1997-10-31
; PRIOR APPLICATION NUMBER: 60/069873
; PRIOR FILING DATE: 1997-12-17
; PRIOR APPLICATION NUMBER: 60/078910
; PRIOR FILING DATE: 1998-03-20
; PRIOR APPLICATION NUMBER: 60/079294
; PRIOR FILING DATE: 1998-03-25
; PRIOR APPLICATION NUMBER: 60/079656
; PRIOR FILING DATE: 1998-03-26
; PRIOR APPLICATION NUMBER: 60/079728
; PRIOR FILING DATE: 1998-03-27
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 246
; SEQ ID NO 220
; LENGTH: 417
; TYPE: PRT
; ORGANISM: Homo Sapien
```

US-10-219-062-220

Query Match 66.7%; Score 32; DB 9; Length 417;
Best Local Similarity 50.0%; Pred. No. 1.3e+02;
Matches 4; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 1 VYCKQQL 8
:||||:|:
Db 191 IYCKRQFM 198

RESULT 32

US-10-219-064-220
; Sequence 220, Application US/10219064
; Publication No. US20060074221A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Desnoyers, Luc
; APPLICANT: Gerritsen, Mary
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Smith, Victoria
; APPLICANT: Stephan, Jean-Philippe F.
; APPLICANT: Watanabe, Colin L.
; APPLICANT: Wood, William I.
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; TITLE OF INVENTION: ACIDS ENCODING THE SAME
; FILE REFERENCE: P3530PIC44
; CURRENT APPLICATION NUMBER: US/10/219,064
; PRIOR FILING DATE: 2002-08-13
; PRIOR APPLICATION NUMBER: 10/119,480
; PRIOR FILING DATE: 2002-04-09
; PRIOR APPLICATION NUMBER: 60/059113
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/062287
; PRIOR FILING DATE: 1997-10-17
; PRIOR APPLICATION NUMBER: 60/063549
; PRIOR FILING DATE: 1997-10-28
; PRIOR APPLICATION NUMBER: 60/064103
; PRIOR FILING DATE: 1997-10-31
; PRIOR APPLICATION NUMBER: 60/069873
; PRIOR FILING DATE: 1997-12-17
; PRIOR APPLICATION NUMBER: 60/078910
; PRIOR FILING DATE: 1998-03-20
; PRIOR APPLICATION NUMBER: 60/079294
; PRIOR FILING DATE: 1998-03-25
; PRIOR APPLICATION NUMBER: 60/079656
; PRIOR FILING DATE: 1998-03-26
; PRIOR APPLICATION NUMBER: 60/079728
; PRIOR FILING DATE: 1998-03-27
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 246
; SEQ ID NO 220
; LENGTH: 417
; TYPE: PRT
; ORGANISM: Homo Sapien
; US-10-219-064-220

Query Match 66.7%; Score 32; DB 9; Length 417;
Best Local Similarity 50.0%; Pred. No. 1.3e+02;
Matches 4; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 1 VYCKQQL 8
:||||:|:
Db 191 IYCKRQFM 198

RESULT 33
US-10-233-134-220
; Sequence 220, Application US/10233134
; Publication No. US20060073476A1

; GENERAL INFORMATION:

; APPLICANT: Baker, Kevin P.
; APPLICANT: Desnoyers, Luc
; APPLICANT: Gerritsen, Mary
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Smith, Victoria
; APPLICANT: Stephan, Jean-Philippe F.
; APPLICANT: Watanabe, Colin L.
; APPLICANT: Wood, William I.
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; TITLE OF INVENTION: ACIDS ENCODING THE SAME
; FILE REFERENCE: P3530PIC113
; CURRENT APPLICATION NUMBER: US/10/233,134
; PRIOR FILING DATE: 2002-08-29
; PRIOR APPLICATION NUMBER: 10/119,480
; PRIOR FILING DATE: 2002-04-09
; PRIOR APPLICATION NUMBER: 60/059113
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/062287
; PRIOR FILING DATE: 1997-10-17
; PRIOR APPLICATION NUMBER: 60/063549
; PRIOR FILING DATE: 1997-10-28
; PRIOR APPLICATION NUMBER: 60/064103
; PRIOR FILING DATE: 1997-10-31
; PRIOR APPLICATION NUMBER: 60/069873
; PRIOR FILING DATE: 1997-12-17
; PRIOR APPLICATION NUMBER: 60/078910
; PRIOR FILING DATE: 1998-03-20
; PRIOR APPLICATION NUMBER: 60/079294
; PRIOR FILING DATE: 1998-03-25
; PRIOR APPLICATION NUMBER: 60/079656
; PRIOR FILING DATE: 1998-03-26
; PRIOR APPLICATION NUMBER: 60/079728
; PRIOR FILING DATE: 1998-03-27
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 246
; SEQ ID NO 220
; LENGTH: 417
; TYPE: PRT
; ORGANISM: Homo Sapien
; US-10-233-134-220

Query Match 66.7%; Score 32; DB 9; Length 417;
Best Local Similarity 50.0%; Pred. No. 1.3e+02;
Matches 4; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 1 VYCKQQL 8
:||||:|:
Db 191 IYCKRQFM 198

RESULT 34
US-11-195-851-16
; Sequence 16, Application US/11195851
; Publication No. US20060058223A1
; GENERAL INFORMATION:
; APPLICANT: Ma, Sha
; APPLICANT: Browning, Jeffrey L.
; TITLE OF INVENTION: TAD in Neuronal Function
; FILE REFERENCE: 2159.0560001/EKS/EJH
; CURRENT APPLICATION NUMBER: US/11/195,851
; PRIOR FILING DATE: 2005-08-03
; PRIOR APPLICATION NUMBER: US 60/598,247
; PRIOR FILING DATE: 2004-08-03
; NUMBER OF SEQ ID NOS: 25
; SOFTWARE: Patentin version 3.3
; SEQ ID NO 16
; LENGTH: 417
; TYPE: PRT
; ORGANISM: Homo sapiens

US-11-195-851-16

Query Match
Best Local Similarity 66.7%; Score 32; DB 11; Length 417;
Matches 4; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 1 VYCKQQL 8
DB 191 IYCKRQFM 198

RESULT 35
US-11-195-851-2

; Sequence 2, Application US/11195851
; Publication No. US20060058223A1
; GENERAL INFORMATION:
; APPLICANT: M1, Sha
; APPLICANT: Browning, Jeffrey L.
; TITLE OF INVENTION: TAJ in Neuronal Function
; FILE REFERENCE: 2159.0560001/EKS/EJH
; CURRENT APPLICATION NUMBER: US/11/195,851
; CURRENT FILING DATE: 2005-08-03
; PRIOR APPLICATION NUMBER: US 60/598,247
; PRIOR FILING DATE: 2004-08-03
; NUMBER OF SEQ ID NOS: 25
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 2
; LENGTH: 423
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-195-851-2

Query Match
Best Local Similarity 66.7%; Score 32; DB 11; Length 423;
Matches 4; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 1 VYCKQQL 8
DB 191 IYCKRQFM 198

RESULT 36
US-11-195-851-4

; Sequence 4, Application US/11195851
; Publication No. US20060058223A1
; GENERAL INFORMATION:
; APPLICANT: M1, Sha
; APPLICANT: Browning, Jeffrey L.
; TITLE OF INVENTION: TAJ in Neuronal Function
; FILE REFERENCE: 2159.0560001/EKS/EJH
; CURRENT APPLICATION NUMBER: US/11/195,851
; CURRENT FILING DATE: 2005-08-03
; PRIOR APPLICATION NUMBER: US 60/598,247
; PRIOR FILING DATE: 2004-08-03
; NUMBER OF SEQ ID NOS: 25
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 4
; LENGTH: 423
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-195-851-4

Query Match
Best Local Similarity 66.7%; Score 32; DB 11; Length 423;
Matches 4; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 1 VYCKQQL 8
DB 191 IYCKRQFM 198

RESULT 37
US-11-195-851-6

; Sequence 6, Application US/11195851
; Publication No. US20060058223A1
; GENERAL INFORMATION:
; APPLICANT: M1, Sha
; APPLICANT: Browning, Jeffrey L.
; TITLE OF INVENTION: TAJ in Neuronal Function
; FILE REFERENCE: 2159.0560001/EKS/EJH
; CURRENT APPLICATION NUMBER: US/11/195,851
; CURRENT FILING DATE: 2005-08-03
; PRIOR APPLICATION NUMBER: US 60/598,247
; PRIOR FILING DATE: 2004-08-03
; NUMBER OF SEQ ID NOS: 25
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 6
; LENGTH: 423
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-195-851-6

Query Match
Best Local Similarity 66.7%; Score 32; DB 11; Length 423;
Matches 4; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 1 VYCKQQL 8
DB 191 IYCKRQFM 198

RESULT 38
US-10-793-626-140

; Sequence 140, Application US/10793626
; Publication No. US20050255478A1
; GENERAL INFORMATION:
; APPLICANT: KIMBERLY, WILLIAM JOHN
; TITLE OF INVENTION: STAPHYLOCOCCUS EPIDERMIDIS NUCLEIC ACIDS AND PROTEINS
; FILE REFERENCE: P03480US
; CURRENT APPLICATION NUMBER: US/10/793,626
; CURRENT FILING DATE: 2004-03-04
; PRIOR APPLICATION NUMBER: 60/164,258
; PRIOR FILING DATE: 1999-11-09
; NUMBER OF SEQ ID NOS: 4472
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 140
; LENGTH: 194
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: synthetic
US-10-793-626-140

Query Match
Best Local Similarity 64.6%; Score 31; DB 9; Length 194;
Matches 4; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 1 VYCKQ 6
DB 32 IYCKQ 37

RESULT 39
US-11-045-004-745

; Sequence 745, Application US/11045004
; Publication No. US20060078901A1
; GENERAL INFORMATION:
; APPLICANT: BUCHRIESEN, CARMEN
; APPLICANT: FRANGEUL, LIONEL
; APPLICANT: COUVE, ELISABETH
; APPLICANT: RUSNIOK, CHRISTOPHE
; APPLICANT: FSTH, HAFIDA
; APPLICANT: DEHOIX, PIERRE
; APPLICANT: DUSURGUT, OLIVIER
; APPLICANT: CHETOUANI, FARID


```

; APPLICANT: NEJARI, HAFED
; APPLICANT: GLASER, PHILIPPE
; APPLICANT: KUNST, FRANCK
; APPLICANT: COSSART, PASCAL
; APPLICANT: DANIELS, JUSTIN
; APPLICANT: GOEBEL, WERNER
; APPLICANT: KREFT, JURGEN
; APPLICANT: KUHN, MICHAEL
; APPLICANT: NG, EVA
; APPLICANT: VAZQUEZ-BOLAND, ANTONIO
; APPLICANT: DOMINGUEZ-BERNAL, GUSTAVO
; APPLICANT: GARRIDO-GARCIA, PATRICIA
; APPLICANT: TIERREZ-MARTINEZ, ALBERTO
; APPLICANT: AMEND, ALEXANDRA
; APPLICANT: CHAKRABORTY, TRINAD
; APPLICANT: DOMANN, EUGEN
; APPLICANT: HAIN, THORSTEN
; APPLICANT: BERGE, PATRICK
; APPLICANT: CHARBIT, ALAIN
; APPLICANT: DURANT, LIONEL
; APPLICANT: PEREZ-DIAZ, JOSE-CLAUDIO
; APPLICANT: BAQUERO, FERNANDO
; APPLICANT: GARCIA DEL PORTILLO, FRANCISCO
; APPLICANT: GOMEZ-LOPEZ, NURIA
; APPLICANT: MADUENIO, ENCARN
; APPLICANT: PABLOS, BETRIZ DE
; APPLICANT: WEHLAND, JURGEN
; APPLICANT: KARST, UWE
; APPLICANT: ENTIAN, KARL-DIETER
; APPLICANT: HAUF, JORG
; APPLICANT: ROSE, MATTHIAS
; APPLICANT: VOSS, HAMUT
; TITLE OF INVENTION: LISTERIA MONOCYTOGENES GENOME, POLYPEPTIDES AND USES
; FILE REFERENCE: 05394.0018-02
; CURRENT APPLICATION NUMBER: US/11/045,004
; PRIOR FILING DATE: 2005-01-28
; PRIOR APPLICATION NUMBER: 10/637,657
; PRIOR FILING DATE: 2003-08-11
; PRIOR APPLICATION NUMBER: 10/257,023
; PRIOR FILING DATE: 2002-10-08
; PRIOR APPLICATION NUMBER: PCT/FR01/01118
; PRIOR FILING DATE: 2001-04-11
; PRIOR APPLICATION NUMBER: FR 00/04,629
; PRIOR FILING DATE: 2000-04-11
; NUMBER OF SEQ ID NOS: 2854
; SOFTWARE: Patencin version 3.3
; SEQ ID NO 745
; LENGTH: 253
; TYPE: PRT
; ORGANISM: Listeria monocytogenes
US-11-045-004-745

Query Match      64.6%; Score 31; DB 11; Length 253;
Best Local Similarity 55.6%; Pred. No. 1.3e+02;
Matches 5; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY      1 YVCKQQLR 9
DB      188 YVMKQRIIR 196

RESULT 40
US-11-087-099-1922
; Sequence 1922, Application US/11087099
; Publication No. US20060041961A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: Genes and Uses for Plant Improvement
; FILE REFERENCE: 38-21(53450)B BP
; CURRENT APPLICATION NUMBER: US/11/087,099
; PRIOR FILING DATE: 2005-03-22
; NUMBER OF SEQ ID NOS: 12464
; SEQ ID NO 1922

```

```

; LENGTH: 259
; TYPE: PRT
; ORGANISM: Oryza sativa
US-11-087-099-1922

Query Match      64.6%; Score 31; DB 11; Length 259;
Best Local Similarity 100.0%; Pred. No. 1.3e+02;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      2 YCKQO 6
DB      3 YCKQO 7

RESULT 41
US-11-087-099-1647
; Sequence 1647, Application US/11087099
; Publication No. US20060041961A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: Genes and Uses for Plant Improvement
; FILE REFERENCE: 38-21(53450)B BP
; CURRENT APPLICATION NUMBER: US/11/087,099
; PRIOR FILING DATE: 2005-03-22
; NUMBER OF SEQ ID NOS: 12464
; SEQ ID NO 1647
; LENGTH: 261
; TYPE: PRT
; ORGANISM: Oryza sativa (japonica cultivar-group)
US-11-087-099-1647

Query Match      64.6%; Score 31; DB 11; Length 261;
Best Local Similarity 100.0%; Pred. No. 1.3e+02;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      2 YCKQO 6
DB      3 YCKQO 7

RESULT 42
US-10-455-772-978
; Sequence 978, Application US/10455772
; Publication No. US20060084054A1
; GENERAL INFORMATION:
; APPLICANT: John Alsbrook et al.
; TITLE OF INVENTION: NOVEL PROTEINS AND NUCLEIC ACIDS ENCODING SAME
; FILE REFERENCE: 21402-589C
; CURRENT APPLICATION NUMBER: US/10/455,772
; PRIOR FILING DATE: 2003-06-04
; PRIOR APPLICATION NUMBER: 60/385615
; PRIOR FILING DATE: 2002-06-04
; PRIOR APPLICATION NUMBER: 60/402268
; PRIOR FILING DATE: 2002-08-09
; PRIOR APPLICATION NUMBER: 60/387606
; PRIOR FILING DATE: 2002-06-11
; PRIOR APPLICATION NUMBER: 60/386357
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: 60/385755
; PRIOR FILING DATE: 2002-06-04
; PRIOR APPLICATION NUMBER: 60/386355
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: 60/385490
; PRIOR FILING DATE: 2002-06-04
; PRIOR APPLICATION NUMBER: 60/420718
; PRIOR FILING DATE: 2002-10-23
; PRIOR APPLICATION NUMBER: 60/386447
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: 60/386465
; PRIOR FILING DATE: 2002-06-06
; Remaining Prior Application data removed - See file wrapper or PALM.
; NUMBER OF SEQ ID NOS: 1540
; SOFTWARE: CutsSeqList version 0.1

```

```
;; SEQ ID NO 978
;; LENGTH: 310
;; TYPE: PRT
;; ORGANISM: Homo sapiens
US-10-455-772-978
```

```
Query Match          64.6%; Score 31; DB 9; Length 310;
Best Local Similarity 55.6%; Pred. No. 1.5e+02;
Matches 5; Conservative 2; Mismatches 2; Indels 0; Gaps 0;
```

```
QY      1 VYCKQQLR 9
      |||:|
Db      80 VYCPRMILR 88
```

```
RESULT 43
US-10-455-772-982
; Sequence 982, Application US/10455772
; Publication No. US20060084054A1
; GENERAL INFORMATION:
```

```
; APPLICANT: John Alsbrook et al.
; TITLE OF INVENTION: NOVEL PROTEINS AND NUCLEIC ACIDS ENCODING SAME
; FILE REFERENCE: 21402-589C
; CURRENT FILING DATE: 2003-06-04
; PRIOR APPLICATION NUMBER: 60/385615
```

```
; PRIOR FILING DATE: 2002-06-04
; PRIOR APPLICATION NUMBER: 60/402268
```

```
; PRIOR FILING DATE: 2002-08-09
; PRIOR APPLICATION NUMBER: 60/387606
```

```
; PRIOR FILING DATE: 2002-06-11
; PRIOR APPLICATION NUMBER: 60/386357
```

```
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: 60/385755
```

```
; PRIOR FILING DATE: 2002-06-04
; PRIOR APPLICATION NUMBER: 60/386355
```

```
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: 60/385490
```

```
; PRIOR FILING DATE: 2002-06-04
; PRIOR APPLICATION NUMBER: 60/420718
```

```
; PRIOR FILING DATE: 2002-10-23
; PRIOR APPLICATION NUMBER: 60/386447
```

```
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: 60/386465
```

```
; PRIOR FILING DATE: 2002-06-06
; Remaining Prior Application data removed - See File Wrapper or PALM.
```

```
; NUMBER OF SEQ ID NOS: 1540
; SOFTWARE: Carseqqlst version 0.1
; SEQ ID NO 982
; LENGTH: 310
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-455-772-982
```

```
Query Match          64.6%; Score 31; DB 9; Length 310;
Best Local Similarity 55.6%; Pred. No. 1.5e+02;
Matches 5; Conservative 2; Mismatches 2; Indels 0; Gaps 0;
```

```
QY      1 VYCKQQLR 9
      |||:|
Db      80 VYCPRMILR 88
```

```
RESULT 44
US-10-641-678-49
```

```
; Sequence 49, Application US/10641678
; Publication No. US20050277172A1
; GENERAL INFORMATION:
```

```
; APPLICANT: Day, Anthony, G.
```

```
; APPLICANT: Goedegebuurt, Frits
```

```
; APPLICANT: Gualfetti, Peter
```

```
; APPLICANT: Mitchinson, Colin
```

```
; APPLICANT: Neefe, Paulien
```

```
; APPLICANT: Sandgren, Mats
; APPLICANT: Shaw, Andrew
; APPLICANT: Stahberg, Jerry
; TITLE OF INVENTION: Novel Variant Hypocrea jecorina CBH1
; FILE REFERENCE: GC772-3
; CURRENT APPLICATION NUMBER: US/10/641,678
; CURRENT FILING DATE: 2003-08-15
; PRIOR APPLICATION NUMBER: US 60/458,853
```

```
; PRIOR FILING DATE: 2003-03-27
; PRIOR APPLICATION NUMBER: US 60/458,696
```

```
; PRIOR FILING DATE: 2003-03-27
; PRIOR APPLICATION NUMBER: US 60/456,368
```

```
; PRIOR FILING DATE: 2003-03-21
; PRIOR APPLICATION NUMBER: US 60/404,063
```

```
; PRIOR FILING DATE: 2002-08-16
; NUMBER OF SEQ ID NOS: 77
; SOFTWARE: FastSeq for Windows Version 4.0
```

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; SEQ ID NO 49
; LENGTH: 438
; TYPE: PRT
; ORGANISM: Leptospira maculans
US-10-641-678-49
```

```
Query Match          64.6%; Score 31; DB 9; Length 438;
Best Local Similarity 71.4%; Pred. No. 2e+02;
Matches 5; Conservative 2; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      2 VYCKQQL 8
      |||:|
Db      88 YCERQL 94
```

```
RESULT 45
US-11-072-512-3349
```

```
; Sequence 3349, Application US/11072512
; Publication No. US20060029945A1
; GENERAL INFORMATION:
```

```
; APPLICANT: ISOGAI, TAKAO
```

```
; APPLICANT: SUGIYAMA, TOMOYASU
```

```
; APPLICANT: OTSUKI, TETSUJI
```

```
; APPLICANT: WAKAMATSU, AI
```

```
; APPLICANT: SATO, HIROYUKI
```

```
; APPLICANT: ISHII, SHIZUKO
```

```
; APPLICANT: YAMAMOTO, JUN-ICHI
```

```
; APPLICANT: ISONO, YUUKO
```

```
; APPLICANT: HIO, YURI
```

```
; APPLICANT: OTSUKA, KAORU
```

```
; APPLICANT: NAGAI, KEIICHI
```

```
; APPLICANT: IRIE, RYOTARO
```

```
; APPLICANT: TAMECHIKA, ICHIRO
```

```
; APPLICANT: SEKI, NAOKIHO
```

```
; APPLICANT: YOSHIKAWA, TSUTOMU
```

```
; APPLICANT: OTSUKA, MOTYUKI
```

```
; APPLICANT: NAGAHARI, KENJI
```

```
; APPLICANT: MASUHO, YASUHIKO
```

```
; TITLE OF INVENTION: Novel full length cDNA
```

```
; FILE REFERENCE: 084335-0191
```

```
; CURRENT APPLICATION NUMBER: US/11/072,512
```

```
; CURRENT FILING DATE: 2005-03-07
```

```
; PRIOR APPLICATION NUMBER: US 60/350,978
```

```
; PRIOR FILING DATE: 2002-01-25
```

```
; PRIOR APPLICATION NUMBER: JP 2001-379298
```

```
; PRIOR FILING DATE: 2001-11-05
```

```
; NUMBER OF SEQ ID NOS: 4096
```

```
; SOFTWARE: Patentin Ver. 2.1
```

```
; SEQ ID NO 3349
```

```
; LENGTH: 662
```

```
; TYPE: PRT
```

```
; ORGANISM: Homo sapiens
```

```
US-11-072-512-3349
```

```
Query Match          64.6%; Score 31; DB 11; Length 662;
```

Best Local Similarity 55.6%; Pred. No. 2.9e+02;
Matches 5; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

Qy 1 VYCKQQLR 9
Db 531 VYCDQVTR 539

RESULT 46

US-11-188-298-18431
Sequence 18431, Application US/11188298
Publication No. US20060075522A1
GENERAL INFORMATION:
APPLICANT: Abad, Mark S. et al.
TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
FILE REFERENCE: 38-21(53452)B
CURRENT FILING DATE: 2005-07-22
PRIOR APPLICATION NUMBER: 60/592,978
PRIOR FILING DATE: 2004-07-31
NUMBER OF SEQ ID NOS: 22569
SEQ ID NO 18431
LENGTH: 769
TYPE: PRT
ORGANISM: Panax ginseng
US-11-188-298-18431

Query Match 64.6%; Score 31; DB 11; Length 769;
Best Local Similarity 62.5%; Pred. No. 3.3e+02;
Matches 5; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Qy 1 VYCKQQLR 8
Db 731 VYCKRSM 738

RESULT 47
US-10-455-772-980
Sequence 980, Application US/10455772
Publication No. US20060084054A1
GENERAL INFORMATION:
APPLICANT: John Alsbrook et al.
TITLE OF INVENTION: NOVEL PROTEINS AND NUCLEIC ACIDS ENCODING SAME
FILE REFERENCE: 21402-589C
CURRENT APPLICATION NUMBER: US/10/455,772
CURRENT FILING DATE: 2003-06-04
PRIOR APPLICATION NUMBER: 60/385615
PRIOR FILING DATE: 2002-06-04
PRIOR APPLICATION NUMBER: 60/402268
PRIOR FILING DATE: 2002-08-09
PRIOR APPLICATION NUMBER: 60/387606
PRIOR FILING DATE: 2002-06-11
PRIOR APPLICATION NUMBER: 60/386357
PRIOR FILING DATE: 2002-06-06
PRIOR APPLICATION NUMBER: 60/385755
PRIOR FILING DATE: 2002-06-04
PRIOR APPLICATION NUMBER: 60/386355
PRIOR FILING DATE: 2002-06-06
PRIOR APPLICATION NUMBER: 60/385490
PRIOR FILING DATE: 2002-06-04
PRIOR APPLICATION NUMBER: 60/420718
PRIOR FILING DATE: 2002-10-23
PRIOR APPLICATION NUMBER: 60/386447
PRIOR FILING DATE: 2002-06-06
PRIOR APPLICATION NUMBER: 60/386465
PRIOR FILING DATE: 2002-06-06
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 1540
SOFTWARE: CuroSeqList version 0.1
SEQ ID NO 980
LENGTH: 1419
TYPE: PRT
ORGANISM: Homo sapiens

US-10-455-772-980

Query Match 64.6%; Score 31; DB 9; Length 1419;
Best Local Similarity 55.6%; Pred. No. 5.5e+02;
Matches 5; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

Qy 1 VYCKQQLR 9
Db 535 VYCPRMILR 543

RESULT 48

US-10-455-772-984
Sequence 984, Application US/10455772
Publication No. US20060084054A1
GENERAL INFORMATION:
APPLICANT: John Alsbrook et al.
TITLE OF INVENTION: NOVEL PROTEINS AND NUCLEIC ACIDS ENCODING SAME
FILE REFERENCE: 21402-589C
CURRENT APPLICATION NUMBER: US/10/455,772
CURRENT FILING DATE: 2003-06-04
PRIOR APPLICATION NUMBER: 60/385615
PRIOR FILING DATE: 2002-06-04
PRIOR APPLICATION NUMBER: 60/402268
PRIOR FILING DATE: 2002-08-09
PRIOR APPLICATION NUMBER: 60/387606
PRIOR FILING DATE: 2002-06-11
PRIOR APPLICATION NUMBER: 60/386357
PRIOR FILING DATE: 2002-06-06
PRIOR APPLICATION NUMBER: 60/385490
PRIOR FILING DATE: 2002-06-04
PRIOR APPLICATION NUMBER: 60/420718
PRIOR FILING DATE: 2002-10-23
PRIOR APPLICATION NUMBER: 60/386447
PRIOR FILING DATE: 2002-06-06
PRIOR APPLICATION NUMBER: 60/386465
PRIOR FILING DATE: 2002-06-06
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 1540
SOFTWARE: CuroSeqList version 0.1
SEQ ID NO 984
LENGTH: 1423
TYPE: PRT
ORGANISM: Homo sapiens
US-10-455-772-984

Query Match 64.6%; Score 31; DB 9; Length 1423;
Best Local Similarity 55.6%; Pred. No. 5.5e+02;
Matches 5; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

Qy 1 VYCKQQLR 9
Db 538 VYCPRMILR 546

RESULT 49

US-11-096-274-2
Sequence 2, Application US/11096274
Publication No. US20050261481A1
GENERAL INFORMATION:
APPLICANT: Yu, Xuanhuan
APPLICANT: Miranda, Maricar
APPLICANT: Turner, C. Alexander Jr.
TITLE OF INVENTION: Novel Human Lipase and Polynucleotides Encoding the Same
FILE REFERENCE: LEX-0303-USA
CURRENT APPLICATION NUMBER: US/11/096,274
CURRENT FILING DATE: 2005-03-31
PRIOR APPLICATION NUMBER: US/10/054,691
PRIOR FILING DATE: 2001-01-22

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; PRIOR APPLICATION NUMBER: US 60/264,049
; PRIOR FILING DATE: 2001-01-24
; NUMBER OF SEQ ID NOS: 2
; SOFTWARE: FASTSEQ for Windows Version 4.0
; SEQ ID NO: 2
; LENGTH: 1458
; TYPE: PRT
; ORGANISM: homo sapiens
US-11-096-274-2
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Query Match          64.6%; Score 31; DB 11; Length 1458;
Best Local Similarity 55.6%; Pred. No. 5.6e+02;
Matches 5; Conservative 2; Mismatches 2; Indels 0; Gaps 0;
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Db      570 YCPRMILR 578
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RESULT 50
US-11-098-686-10232
; Sequence 10232, Application US/11098686
; Publication No. US20060024696A1
; GENERAL INFORMATION:
; APPLICANT: Kapur, Vivek and Gebhart, Connie J.
; TITLE OF INVENTION: NUCLEIC ACID AND POLYPEPTIDE SEQUENCES
; TITLE OF INVENTION: FROM LAWSONIA INTRACELLULARIS AND METHODS OF USING
; FILE REFERENCE: 09531-128001
; CURRENT APPLICATION NUMBER: US/11/098,686
; PRIOR FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31318
; PRIOR FILING DATE: 2003-10-01
; PRIOR APPLICATION NUMBER: US 60/416,395
; PRIOR FILING DATE: 2002-10-04
; NUMBER OF SEQ ID NOS: 11433
; SOFTWARE: FASTSEQ for Windows Version 4.0
; SEQ ID NO 10232
; LENGTH: 8746
; TYPE: PRT
; ORGANISM: Lawsonia intracellularis
US-11-098-686-10232
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Query Match          64.6%; Score 31; DB 11; Length 8746;
Best Local Similarity 62.5%; Pred. No. 2.5e+03;
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;
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OY      2 YCKQQLR 9
      ||| : |||
Db      4432 FCKEQQLR 4439
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Search completed: May 5, 2006, 07:56:49
Job time : 10.4 secs
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GenCore version 5.1.7
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OM protein - protein search, using BW model

Run on: May 5, 2006, 01:38:21 ; Search time 20.8 Seconds
(without alignments)
35.773 Million cell updates/sec

Title: US-08-170-344-43
Perfect score: 44
Sequence: 1 QOLRRREV 9

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 572060 seqs, 82675679 residues

Total number of hits satisfying chosen parameters: 572060

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 1000 summaries

Database : Issued Patents AA: *
1: /cgn2_6/ptodata/1/1aa/5-COMB.pep:*
2: /cgn2_6/ptodata/1/1aa/6-COMB.pep:*
3: /cgn2_6/ptodata/1/1aa/H-COMB.pep:*
4: /cgn2_6/ptodata/1/1aa/BCTUS-COMB.pep:*
5: /cgn2_6/ptodata/1/1aa/RE-COMB.pep:*
6: /cgn2_6/ptodata/1/1aa/Backfile1.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	44	100.0	9	2	US-08-159-339A-135
2	44	100.0	20	1	US-08-934-915-160
3	44	100.0	151	2	US-09-701-080C-18
4	44	100.0	158	2	US-09-980-523A-2
5	44	100.0	162	1	US-08-316-239B-3
6	44	100.0	162	1	US-08-316-239B-4
7	44	100.0	172	2	US-08-860-165-14
8	44	100.0	172	2	US-09-359-382-14
9	44	100.0	182	1	US-08-117-083-10
10	44	100.0	243	2	US-09-462-993-1
11	44	100.0	266	2	US-08-860-165-10
12	44	100.0	266	2	US-09-359-382-10
13	44	100.0	266	2	US-09-367-309A-1
14	44	100.0	273	2	US-09-485-885-4
15	44	100.0	292	2	US-09-485-885-10
16	44	100.0	371	2	US-09-485-885-6
17	44	100.0	390	2	US-09-485-885-14
18	35	79.5	415	2	US-09-248-796A-17467
19	34	77.3	9	2	US-08-159-339A-252
20	33	75.0	732	1	US-08-317-522A-5
21	33	75.0	778	1	US-08-439-818A-5
22	33	75.0	778	1	US-08-751-965-5
23	33	75.0	778	1	US-08-738-975-5
24	33	75.0	778	1	US-08-728-626-5
25	33	75.0	778	1	US-08-808-599A-5
26	32	72.7	639	2	US-09-252-991A-25089
27	32	72.7	4866	2	US-09-424-783-2
28	32	72.7	4872	2	US-09-424-783-3
29	31	70.5	102	2	US-10-311-886-25
30	31	70.5	185	2	US-10-311-886-11
31	31	70.5	185	2	US-10-311-886-12
32	31	70.5	185	2	US-10-311-886-13
33	31	70.5	212	2	US-08-861-774E-42
34	31	70.5	381	2	US-10-311-886-7
35	31	70.5	381	2	US-10-311-886-8
36	31	70.5	381	2	US-10-311-886-9
37	31	70.5	622	4	US-08-132-990A-4
38	31	70.5	622	4	PCT-US92-09382-4
39	31	70.5	629	4	US-08-132-990A-8
40	31	70.5	644	2	PCT-US92-09382-8
41	31	70.5	644	2	US-09-949-016-9507
42	31	70.5	1441	2	US-09-252-991A-28143
43	30	68.2	14	1	US-07-909-122-4
44	30	68.2	23	2	US-09-601-729-276
45	30	68.2	147	2	US-09-265-585C-98
46	30	68.2	196	2	US-09-489-039A-7430
47	30	68.2	295	2	US-09-265-585C-101
48	30	68.2	322	2	US-09-710-279-586
49	30	68.2	322	2	US-09-710-279-584
50	30	68.2	327	2	US-09-134-001C-3477
51	30	68.2	435	2	US-09-489-039A-13740
52	30	68.2	437	2	US-09-328-352-7401
53	30	68.2	481	2	US-09-902-540-13111
54	30	68.2	486	2	US-09-252-991A-17543
55	30	68.2	516	2	US-09-252-991A-17639
56	30	68.2	592	2	US-09-328-352-4438
57	30	68.2	668	2	US-09-265-585C-96
58	30	68.2	668	2	US-09-265-585C-99
59	30	68.2	910	2	US-09-107-532A-6353
60	30	68.2	1815	2	US-08-851-557B-32
61	30	68.2	2296	2	US-08-286-819A-27
62	30	68.2	2296	2	US-08-980-337-27
63	30	68.2	2296	2	US-09-357-375-27
64	29	65.9	92	2	US-09-107-532A-5402
65	29	65.9	123	1	US-08-588-258B-1
66	29	65.9	123	2	US-08-460-505-1
67	29	65.9	123	4	PCT-US96-08285-1
68	29	65.9	178	2	US-09-270-767-39175
69	29	65.9	178	2	US-09-270-767-54392
70	29	65.9	240	2	US-08-942-001-9
71	29	65.9	240	2	US-09-337-386-9
72	29	65.9	240	2	US-09-846-922-9
73	29	65.9	252	2	US-09-538-092-198
74	29	65.9	287	2	US-09-585-858-48
75	29	65.9	287	2	US-10-270-878-15
76	29	65.9	362	1	US-08-118-270-15
77	29	65.9	362	4	PCT-US93-08528-15
78	29	65.9	377	2	US-09-198-452A-654
79	29	65.9	385	2	US-09-036-987A-19
80	29	65.9	385	2	US-09-370-700-19
81	29	65.9	385	2	US-09-603-207-19
82	29	65.9	385	2	US-09-270-767-32506
83	29	65.9	385	2	US-09-270-767-47723
84	29	65.9	413	1	US-08-444-734A-5
85	29	65.9	413	1	US-08-087-772A-17
86	29	65.9	413	1	US-08-467-568-12
87	29	65.9	413	1	US-09-030-582-12
88	29	65.9	413	2	US-09-811-286-2
89	29	65.9	413	2	US-09-936-499-1
90	29	65.9	413	2	US-09-936-499-2
91	29	65.9	413	4	PCT-US91-00909-4
92	29	65.9	413	2	US-09-902-540-16007
93	29	65.9	426	2	US-09-341-448B-9
94	29	65.9	448	2	US-09-489-039A-8733
95	29	65.9	478	2	US-09-438-185A-618
96	29	65.9	495	2	US-09-691-270A-24
97	29	65.9	555	1	US-08-588-258B-24
98	29	65.9	555	2	US-08-460-505-24
99	29	65.9	555	4	PCT-US96-08285-24
100	29	65.9	678	2	US-09-270-767-35314

101	29	65.9	678	2	US-09-270-767-50531	Sequence 50531, A	174	28	63.6	942	1	US-08-541-902-14	Sequence 14, Appl
102	29	65.9	792	2	US-09-902-540-16475	Sequence 16475, A	175	28	63.6	1275	2	US-09-902-540-10769	Sequence 10769, A
103	29	65.9	959	2	US-09-252-991A-23758	Sequence 23758, A	176	28	63.6	1333	1	US-08-244-537-2	Sequence 2, Appl1
104	29	65.9	2474	2	US-08-265-967C-3	Sequence 3, Appl1	177	28	63.6	1461	1	US-08-993-228-10	Sequence 10, Appl
105	29	65.9	2474	2	US-08-305-790B-4	Sequence 4, Appl1	178	28	63.6	1487	2	US-09-489-039A-12113	Sequence 1113, A
106	28	63.6	52	1	US-08-485-455D-19	Sequence 19, Appl	179	28	63.6	1732	1	US-08-570-311-10	Sequence 10, Appl
107	28	63.6	52	1	US-08-483-130C-19	Sequence 19, Appl	180	28	63.6	1732	2	US-08-353-485-10	Sequence 10, Appl
108	28	63.6	52	1	US-08-484-211C-19	Sequence 19, Appl	181	28	63.6	1732	2	US-09-066-330-11	Sequence 11, Appl
109	28	63.6	52	2	US-08-906-769-19	Sequence 19, Appl	182	28	63.6	1765	2	US-09-354-147C-3	Sequence 2, Appl1
110	28	63.6	52	2	US-08-906-616-19	Sequence 19, Appl	183	28	63.6	1765	2	US-09-354-147C-3	Sequence 2, Appl1
111	28	63.6	52	2	US-08-817-795-19	Sequence 19, Appl	184	28	63.6	1765	2	US-09-354-147C-3	Sequence 5, Appl1
112	28	63.6	52	2	US-08-485-443B-19	Sequence 19, Appl	185	28	63.6	1820	1	US-09-902-540-16307	Sequence 16307, A
113	28	63.6	52	2	US-08-639-075A-19	Sequence 19, Appl	186	28	63.6	1876	1	US-08-619-554-2	Sequence 2, Appl1
114	28	63.6	52	2	US-09-012-431-19	Sequence 19, Appl	187	28	63.6	1895	2	US-08-487-558B-102	Sequence 102, App
115	28	63.6	52	2	US-09-012-692-19	Sequence 19, Appl	188	28	63.6	1895	2	US-08-619-554-4	Sequence 4, Appl1
116	28	63.6	52	2	US-08-906-613-19	Sequence 19, Appl	189	28	63.6	1895	2	US-09-487-558B-136	Sequence 136, App
117	28	63.6	52	4	PCT-US95-14442A-19	Sequence 19, Appl	190	28	63.6	2016	2	US-09-475-552-2	Sequence 2, Appl1
118	28	63.6	117	2	US-09-489-039A-13823	Sequence 13823, A	191	28	63.6	2089	1	US-08-418-993D-23	Sequence 23, Appl
119	28	63.6	119	2	US-09-270-767-44998	Sequence 44998, A	192	28	63.6	2089	1	US-08-418-993D-24	Sequence 24, Appl
120	28	63.6	159	2	US-09-252-991A-29204	Sequence 29204, A	193	28	63.6	2172	1	US-08-611-107-31	Sequence 31, Appl
121	28	63.6	165	2	US-09-270-767-33739	Sequence 33739, A	194	28	63.6	2254	1	US-08-677-010-3	Sequence 3, Appl1
122	28	63.6	165	2	US-09-270-767-48956	Sequence 48956, A	195	28	63.6	2254	1	US-08-790-519-3	Sequence 3, Appl1
123	28	63.6	219	2	US-09-270-767-41673	Sequence 41673, A	196	28	63.6	2257	1	US-08-611-107-10	Sequence 10, Appl
124	28	63.6	232	2	US-08-906-769-81	Sequence 81, Appl	197	28	63.6	2257	2	US-08-422-560A-10	Sequence 10, Appl
125	28	63.6	232	2	US-08-906-616-81	Sequence 81, Appl	198	28	63.6	2257	2	US-08-468-793-10	Sequence 10, Appl
126	28	63.6	232	2	US-08-817-795-81	Sequence 81, Appl	199	28	63.6	2257	2	US-09-839-477-8	Sequence 8, Appl1
127	28	63.6	232	2	US-08-639-075A-81	Sequence 81, Appl	200	28	63.6	2270	2	US-09-891-909-3	Sequence 3, Appl1
128	28	63.6	232	2	US-09-012-431-81	Sequence 81, Appl	201	28	63.6	2311	2	US-08-934-386-9	Sequence 9, Appl1
129	28	63.6	232	2	US-09-012-692-81	Sequence 81, Appl	202	28	63.6	2335	2	US-08-617-089-6	Sequence 6, Appl1
130	28	63.6	232	2	US-08-906-613-81	Sequence 81, Appl	203	28	63.6	2335	2	US-08-495-651-6	Sequence 6, Appl1
131	28	63.6	232	4	PCT-US95-14442A-81	Sequence 81, Appl	204	28	63.6	2335	2	US-08-930-285-6	Sequence 6, Appl1
132	28	63.6	282	2	US-09-949-016-10848	Sequence 10848, A	205	28	63.6	2335	2	US-08-695-421-6	Sequence 6, Appl1
133	28	63.6	290	2	US-09-489-039A-9324	Sequence 9324, Ap	206	28	63.6	2335	2	US-08-697-826A-10	Sequence 10, Appl
134	28	63.6	311	2	US-09-270-767-44261	Sequence 44261, A	207	27	61.4	60	2	US-09-513-999C-5890	Sequence 5890, Ap
135	28	63.6	354	1	US-08-599-171A-31	Sequence 31, Appl	208	27	61.4	78	1	US-08-469-412A-10	Sequence 10, Appl
136	28	63.6	354	1	US-08-646-590B-31	Sequence 31, Appl	209	27	61.4	80	2	US-09-021-715-10	Sequence 10, Appl
137	28	63.6	354	2	US-09-069-226-31	Sequence 31, Appl	210	27	61.4	97	2	US-09-311-021-32	Sequence 32, Appl
138	28	63.6	354	2	US-09-412-184-31	Sequence 31, Appl	211	27	61.4	100	2	US-09-270-767-62444	Sequence 62444, A
139	28	63.6	364	1	US-08-570-311-26	Sequence 26, Appl	212	27	61.4	103	2	US-09-248-796A-21792	Sequence 21792, A
140	28	63.6	369	2	US-09-108-020-40	Sequence 40, Appl	213	27	61.4	103	2	US-09-902-540-12998	Sequence 12998, A
141	28	63.6	369	2	US-09-685-296-40	Sequence 40, Appl	214	27	61.4	110	2	US-09-462-917A-30	Sequence 30, Appl
142	28	63.6	395	2	US-09-489-039A-9276	Sequence 9276, Ap	215	27	61.4	111	2	US-09-461-325-369	Sequence 369, App
143	28	63.6	468	2	US-09-902-540-13224	Sequence 13224, A	216	27	61.4	111	2	US-10-012-542-369	Sequence 369, App
144	28	63.6	477	2	US-09-489-039A-9540	Sequence 9540, Ap	217	27	61.4	111	2	US-10-015-123-369	Sequence 369, App
145	28	63.6	480	2	US-09-902-540-10711	Sequence 10711, A	218	27	61.4	113	2	US-09-462-917A-10	Sequence 10, Appl
146	28	63.6	496	2	US-08-833-876-2	Sequence 2, Appl1	219	27	61.4	113	2	US-09-462-917A-12	Sequence 12, Appl
147	28	63.6	496	2	US-09-483-054-2	Sequence 2, Appl1	220	27	61.4	113	2	US-09-462-917A-26	Sequence 26, Appl
148	28	63.6	496	2	US-09-583-110-2837	Sequence 2837, Ap	221	27	61.4	113	2	US-09-462-917A-28	Sequence 28, Appl
149	28	63.6	499	2	US-09-107-433-4680	Sequence 4680, Ap	222	27	61.4	115	2	US-09-462-917A-24	Sequence 24, Appl
150	28	63.6	522	2	US-09-408-020-8	Sequence 8, Appl1	223	27	61.4	116	2	US-09-462-917A-20	Sequence 20, Appl
151	28	63.6	610	2	US-09-248-796A-17030	Sequence 17030, A	224	27	61.4	116	2	US-09-248-796A-23066	Sequence 23066, A
152	28	63.6	626	2	US-09-489-039A-8088	Sequence 8088, Ap	225	27	61.4	117	2	US-09-462-917A-6	Sequence 6, Appl1
153	28	63.6	642	2	US-08-737-109-10	Sequence 10, Appl	226	27	61.4	122	2	US-09-513-999C-5889	Sequence 5889, Ap
154	28	63.6	650	2	US-10-104-047-9636	Sequence 3636, Ap	227	27	61.4	133	2	US-09-252-991A-24837	Sequence 24837, A
155	28	63.6	652	1	US-08-751-305-2	Sequence 2, Appl1	228	27	61.4	136	2	US-09-513-999C-55599	Sequence 5599, Ap
156	28	63.6	702	2	US-09-902-540-15994	Sequence 15994, A	229	27	61.4	141	2	US-09-270-767-60164	Sequence 60164, A
157	28	63.6	705	2	US-09-248-796A-25911	Sequence 25911, A	230	27	61.4	148	2	US-09-370-767-46819	Sequence 46819, A
158	28	63.6	721	2	US-09-248-796A-17831	Sequence 17831, A	231	27	61.4	153	2	US-09-621-976-4552	Sequence 4552, Ap
159	28	63.6	742	2	US-09-500-123-12	Sequence 12, Appl	232	27	61.4	155	2	US-09-710-279-844	Sequence 844, App
160	28	63.6	744	2	US-09-252-991A-19290	Sequence 19290, A	233	27	61.4	159	2	US-09-149-476-354	Sequence 354, App
161	28	63.6	764	1	US-08-177-109A-2	Sequence 2, Appl1	234	27	61.4	169	2	US-09-270-767-34124	Sequence 34124, A
162	28	63.6	764	1	US-08-687-706-2	Sequence 2, Appl1	235	27	61.4	189	2	US-09-370-767-49341	Sequence 49341, A
163	28	63.6	764	2	US-09-949-002-325	Sequence 325, App	236	27	61.4	188	2	US-09-802-540-16825	Sequence 16825, A
164	28	63.6	765	2	US-08-737-109-11	Sequence 11, Appl	237	27	61.4	212	2	US-09-352-991A-28521	Sequence 28521, A
165	28	63.6	788	2	US-09-252-991A-17380	Sequence 17380, A	238	27	61.4	222	2	US-09-327-357-161	Sequence 161, App
166	28	63.6	798	2	US-09-949-016-11021	Sequence 11021, A	239	27	61.4	222	2	US-09-973-278-253	Sequence 253, App
167	28	63.6	798	2	US-09-949-002-544	Sequence 544, App	240	27	61.4	248	2	US-09-248-796A-18076	Sequence 18076, A
168	28	63.6	806	1	US-08-451-715A-6	Sequence 6, Appl1	241	27	61.4	250	2	US-09-949-016-11092	Sequence 11092, A
169	28	63.6	816	2	US-09-252-991A-28790	Sequence 28790, A	242	27	61.4	257	2	US-09-328-352-7500	Sequence 7500, Ap
170	28	63.6	855	1	US-08-619-554-6	Sequence 6, Appl1	243	27	61.4	264	2	US-09-270-767-44050	Sequence 44050, A
171	28	63.6	871	2	US-09-500-123-7	Sequence 7, Appl1	244	27	61.4	265	2	US-09-489-039A-12711	Sequence 12711, A
172	28	63.6	922	2	US-09-328-352-5283	Sequence 5283, Ap	245	27	61.4	270	2	US-09-248-796A-15160	Sequence 15160, A
173	28	63.6	942	1	US-08-141-324-14	Sequence 14, Appl	246	27	61.4	274	2	US-10-104-047-3079	Sequence 3079, Ap

247	27	61.4	290	2	US-09-265-585C-103	Sequence 103, App	320	27	61.4	577	2	US-09-487-558B-420	Sequence 420, App
248	27	61.4	293	2	US-09-252-991A-17296	Sequence 17296, A	321	27	61.4	588	2	US-09-777-2	Sequence 2, Appl
249	27	61.4	298	2	US-09-248-796A-19087	Sequence 19087, A	322	27	61.4	592	2	US-09-435-739-14	Sequence 14, Appl
250	27	61.4	306	2	US-09-328-352-4618	Sequence 4618, Ap	323	27	61.4	592	2	US-09-988-113-14	Sequence 14, Appl
251	27	61.4	306	2	US-09-270-767-46617	Sequence 46617, A	324	27	61.4	595	2	US-10-384-450A-14	Sequence 14, Appl
252	27	61.4	307	2	US-09-489-039A-8974	Sequence 8974, Ap	325	27	61.4	592	2	US-09-902-1540-15462	Sequence 15462, A
253	27	61.4	308	2	US-09-710-279-1072	Sequence 1072, Ap	326	27	61.4	634	2	US-09-902-540-10050	Sequence 10050, A
254	27	61.4	308	2	US-09-710-279-2706	Sequence 2706, Ap	327	27	61.4	647	2	US-09-252-991A-189330	Sequence 2, Appl
255	27	61.4	318	2	US-09-134-001C-3852	Sequence 3852, Ap	328	27	61.4	653	2	US-08-186-276B-2	Sequence 2, Appl
256	27	61.4	327	2	US-09-328-352-6109	Sequence 6109, Ap	329	27	61.4	653	2	US-08-842-445-2	Sequence 2, Appl
257	27	61.4	327	2	US-09-543-681A-4435	Sequence 4435, Ap	330	27	61.4	653	2	US-09-186-188B-2	Sequence 2, Appl
258	27	61.4	327	2	US-09-489-039A-13790	Sequence 13790, A	331	27	61.4	653	2	US-09-265-585C-2	Sequence 2, Appl
259	27	61.4	327	2	US-09-248-796A-19206	Sequence 19206, A	332	27	61.4	653	2	US-09-265-585C-100	Sequence 100, App
260	27	61.4	344	2	US-09-134-001C-5004	Sequence 5004, Ap	333	27	61.4	674	2	US-09-452-917A-124	Sequence 124, App
261	27	61.4	345	2	US-09-107-532A-4268	Sequence 4268, Ap	334	27	61.4	715	2	US-09-462-917A-134	Sequence 134, App
262	27	61.4	354	2	US-09-538-092-1073	Sequence 1073, Ap	335	27	61.4	756	2	US-09-949-016-6547	Sequence 6547, Ap
263	27	61.4	358	2	US-09-107-532A-6033	Sequence 6033, Ap	336	27	61.4	765	2	US-09-270-767-12645	Sequence 47862, A
264	27	61.4	368	2	US-09-265-585C-124	Sequence 124, App	337	27	61.4	793	1	US-08-468-558-5	Sequence 5, Appl
265	27	61.4	369	1	US-08-723-415B-4	Sequence 4, Appl	338	27	61.4	793	2	US-08-676-444-5	Sequence 5, Appl
266	27	61.4	369	2	US-09-189-627A-4	Sequence 4, Appl	339	27	61.4	825	2	US-09-921-667-16	Sequence 16, Appl
267	27	61.4	369	2	US-09-710-861-4	Sequence 4, Appl	340	27	61.4	825	2	US-09-921-667-16	Sequence 16, Appl
268	27	61.4	369	2	US-09-252-991A-32815	Sequence 32815, A	341	27	61.4	825	2	US-09-949-001-41	Sequence 41, Appl
269	27	61.4	370	1	US-08-723-415B-6	Sequence 6, Appl	342	27	61.4	826	2	US-09-687-050-6	Sequence 6, Appl
270	27	61.4	370	2	US-09-189-627A-6	Sequence 6, Appl	343	27	61.4	829	2	US-09-252-991A-28854	Sequence 26, Appl
271	27	61.4	370	2	US-09-710-861-6	Sequence 6, Appl	344	27	61.4	839	2	US-09-949-001-26	Sequence 15, Appl
272	27	61.4	379	2	US-09-413-304-15	Sequence 15, Appl	345	27	61.4	874	2	US-08-804-439A-15	Sequence 15, Appl
273	27	61.4	379	2	US-09-817-856-15	Sequence 15, Appl	346	27	61.4	874	2	US-08-720-229-15	Sequence 15, Appl
274	27	61.4	383	2	US-09-538-092-1273	Sequence 1273, Ap	347	27	61.4	1043	2	US-09-949-016-11650	Sequence 11650, A
275	27	61.4	385	1	US-08-723-415B-8	Sequence 8, Appl	348	27	61.4	1049	1	US-08-817-090B-4	Sequence 4, Appl
276	27	61.4	385	2	US-09-189-627A-8	Sequence 8, Appl	349	27	61.4	1050	1	US-08-916-917-14	Sequence 14, Appl
277	27	61.4	385	2	US-09-710-861-8	Sequence 8, Appl	350	27	61.4	1101	1	US-08-925-170-14	Sequence 14, Appl
278	27	61.4	424	2	US-09-489-039A-13454	Sequence 13454, A	351	27	61.4	1101	2	US-09-035-443-2	Sequence 2, Appl
279	27	61.4	430	4	PCT-US93-04392-3	Sequence 3, Appl	352	27	61.4	1274	2	US-09-902-540-15591	Sequence 15591, A
280	27	61.4	430	4	PCT-US93-04392-6	Sequence 6, Appl	353	27	61.4	1630	1	US-08-056-200-94	Sequence 94, Appl
281	27	61.4	430	4	PCT-US93-04392-12	Sequence 12, Appl	354	27	61.4	1898	1	US-08-800-644-94	Sequence 94, Appl
282	27	61.4	430	4	PCT-US93-04392-15	Sequence 15, Appl	355	27	61.4	1898	2	US-09-538-092-1280	Sequence 2, Appl
283	27	61.4	430	4	PCT-US93-04392-15	Sequence 15, Appl	356	27	61.4	1898	2	US-09-605-785A-2	Sequence 2, Appl
284	27	61.4	439	4	US-09-902-540-10637	Sequence 10637, A	357	27	61.4	2388	2	US-09-949-016-11690	Sequence 11690, A
285	27	61.4	446	1	US-08-723-415B-2	Sequence 2, Appl	358	27	61.4	2404	2	US-09-949-016-11691	Sequence 11691, A
286	27	61.4	446	2	US-09-189-627A-2	Sequence 2, Appl	359	27	61.4	2547	2	US-09-058-469-35	Sequence 35, Appl
287	27	61.4	446	2	US-09-710-861-2	Sequence 2, Appl	360	27	61.4	2547	2	US-09-538-092-1374	Sequence 36, Appl
288	27	61.4	446	2	US-08-476-509B-2	Sequence 2, Appl	361	27	61.4	2555	2	US-09-058-469-36	Sequence 36, App
289	27	61.4	472	2	US-09-166-350-17	Sequence 17, Appl	362	27	61.4	2555	2	US-09-538-092-820	Sequence 28, Appl
290	27	61.4	486	2	US-08-348-518C-2	Sequence 2, Appl	363	27	61.4	2555	2	US-09-413-814-28	Sequence 28, Appl
291	27	61.4	501	2	US-09-902-540-11195	Sequence 11195, A	364	27	61.4	2618	2	US-09-424-783-5	Sequence 5, Appl
292	27	61.4	526	2	US-09-252-991A-17225	Sequence 17225, A	365	27	61.4	4968	2	US-09-424-783-5	Sequence 979, App
293	27	61.4	527	2	US-09-930-218-16	Sequence 16, Appl	366	27	61.4	5032	2	US-09-902-540-12902	Sequence 4, Appl
294	27	61.4	530	2	US-09-252-586-2	Sequence 2, Appl	367	27	61.4	5037	2	US-09-424-783-4	Sequence 4, Appl
295	27	61.4	532	1	US-09-181-336-15	Sequence 15, Appl	368	27	61.4	7831	2	US-09-949-016-6556	Sequence 8556, Ap
296	27	61.4	543	1	US-08-469-412A-7	Sequence 7, Appl	369	27	61.4	845	2	US-09-873-409-1	Sequence 1, Appl
297	27	61.4	543	1	US-08-922-170B-10	Sequence 10, Appl	370	27	61.4	852	2	US-09-873-409-2	Sequence 2, Appl
298	27	61.4	543	1	US-09-071-739B-2	Sequence 2, Appl	371	27	61.4	1058	2	US-09-873-409-6	Sequence 6, Appl
299	27	61.4	543	2	US-09-021-715-7	Sequence 7, Appl	372	27	61.4	1195	2	US-09-873-409-6	Sequence 6, Appl
300	27	61.4	543	2	US-09-181-336-13	Sequence 13, Appl	373	27	61.4	1222	2	US-09-980-532A-6	Sequence 6, Appl
301	27	61.4	543	2	US-09-260-038B-2	Sequence 2, Appl	374	26.5	60.2	1222	2	US-09-269-576G-3	Sequence 3, Appl
302	27	61.4	543	2	US-09-635-923-2	Sequence 2, Appl	375	26	59.1	22	2	US-09-269-576G-21	Sequence 21, Appl
303	27	61.4	543	2	US-09-487-716A-2	Sequence 2, Appl	376	26	59.1	28	2	US-09-269-576G-22	Sequence 22, Appl
304	27	61.4	543	2	US-09-322-977-2	Sequence 2, Appl	377	26	59.1	28	2	US-09-269-576G-24	Sequence 24, Appl
305	27	61.4	543	2	US-09-186-200-1	Sequence 1, Appl	378	26	59.1	28	2	US-10-317-252B-198	Sequence 198, App
306	27	61.4	543	2	US-09-435-739-10	Sequence 10, Appl	379	26	59.1	40	2	US-09-853-460-41	Sequence 41, Appl
307	27	61.4	543	2	US-09-930-218-3	Sequence 3, Appl	380	26	59.1	54	2	US-09-866-552-27	Sequence 27, Appl
308	27	61.4	543	2	US-09-704-772A-2	Sequence 2, Appl	381	26	59.1	68	2	US-09-107-532A-6031	Sequence 6031, Ap
309	27	61.4	543	2	US-09-988-113-10	Sequence 10, Appl	382	26	59.1	68	2	US-09-428-1131-11	Sequence 11, Appl
310	27	61.4	543	2	US-09-944-602-2	Sequence 2, Appl	383	26	59.1	72	1	US-09-078-596-11	Sequence 11, Appl
311	27	61.4	543	2	US-10-368-044A-1	Sequence 1, Appl	384	26	59.1	72	1	US-08-894-139-10	Sequence 10, Appl
312	27	61.4	543	2	US-10-384-450A-18	Sequence 18, Appl	385	26	59.1	74	2	US-09-248-796A-24206	Sequence 24206, A
313	27	61.4	545	2	US-09-899-440-18	Sequence 18, Appl	386	26	59.1	78	2	US-09-270-767-37722	Sequence 37722, A
314	27	61.4	548	1	US-08-469-412A-2	Sequence 2, Appl	387	26	59.1	83	2	US-09-270-767-52939	Sequence 52939, A
315	27	61.4	548	1	US-09-021-715-2	Sequence 2, Appl	388	26	59.1	83	2	US-09-471-276-1033	Sequence 1033, Ap
316	27	61.4	570	1	US-08-967-364-1	Sequence 1, Appl	389	26	59.1	84	2	US-09-270-767-59759	Sequence 59759, A
317	27	61.4	570	1	US-08-967-364-7	Sequence 7, Appl	390	26	59.1	91	2	US-09-902-540-10823	Sequence 10823, A
318	27	61.4	570	1	US-09-368-408-1	Sequence 1, Appl	391	26	59.1	95	2		
319	27	61.4	570	2	US-09-368-408-7	Sequence 7, Appl	392	26	59.1	95	2		

393	25	59.1	105	2	US-09-270-767-44338	Sequence 44338, A	466	25	59.1	284	2	US-09-252-991A-22913	Sequence 22913, A
394	26	59.1	110	2	US-09-248-796A-22030	Sequence 22030, A	467	26	59.1	286	2	US-09-949-016-7386	Sequence 7386, Ap
395	26	59.1	123	2	US-09-270-767-43426	Sequence 43426, A	468	26	59.1	287	2	US-10-104-047-2891	Sequence 2891, Ap
396	26	59.1	126	2	US-09-513-999C-7958	Sequence 7958, Ap	469	26	59.1	290	2	US-09-734-673-4	Sequence 4, Appl1
397	26	59.1	129	6	5196523-10	Patent No. 5196523	470	26	59.1	292	2	US-09-902-540-12856	Sequence 12856, A
398	26	59.1	134	2	US-09-902-540-13788	Sequence 13788, A	471	26	59.1	295	2	US-09-902-540-12856	Sequence 12856, A
399	26	59.1	140	2	US-09-270-767-32981	Sequence 32981, A	472	26	59.1	299	2	US-09-489-039A-8976	Sequence 8976, Ap
400	26	59.1	148	2	US-09-270-767-48198	Sequence 48198, A	473	26	59.1	307	2	US-09-107-433-4337	Sequence 4337, Ap
401	26	59.1	148	2	US-09-540-245A-20	Sequence 20, Appl	474	26	59.1	313	2	US-09-583-110-3611	Sequence 3611, Ap
402	26	59.1	148	2	US-10-289-776-20	Sequence 20, Appl1	475	26	59.1	313	2	US-09-769-787-73	Sequence 73, Appl
403	26	59.1	155	1	US-08-670-186-2	Sequence 2, Appl1	476	26	59.1	314	2	US-09-107-532A-3875	Sequence 3875, Ap
404	26	59.1	161	2	US-09-902-540-11099	Sequence 11099, A	477	26	59.1	315	2	US-09-270-767-41882	Sequence 41882, A
405	26	59.1	176	1	US-08-415-751-1	Sequence 1, Appl1	478	26	59.1	327	1	US-08-611-107-12	Sequence 12, Appl
406	26	59.1	178	2	US-09-252-991A-24227	Sequence 24207, A	479	26	59.1	327	1	US-08-468-793-12	Sequence 12, Appl
407	26	59.1	178	2	US-09-902-540-13494	Sequence 13494, A	480	26	59.1	327	2	US-09-270-767-47712	Sequence 47712, A
408	26	59.1	179	2	US-09-540-236-2977	Sequence 2977, Ap	481	26	59.1	331	2	US-09-949-016-9220	Sequence 9220, Ap
409	26	59.1	180	2	US-09-270-767-48094	Sequence 48094, A	482	26	59.1	331	2	US-09-523-849-31	Sequence 31, Appl
410	26	59.1	183	2	US-09-134-001C-5098	Sequence 5098, Ap	483	26	59.1	334	2	US-09-523-849-31	Sequence 26628, A
411	26	59.1	184	2	US-09-252-991A-32916	Sequence 32916, A	484	26	59.1	340	2	US-09-252-991A-28628	Sequence 28628, A
412	26	59.1	190	2	US-09-854-864-24	Sequence 24, Appl	485	26	59.1	341	2	US-09-270-767-38191	Sequence 38191, A
413	26	59.1	190	2	US-09-270-767-32702	Sequence 32702, A	486	26	59.1	341	2	US-09-270-767-53408	Sequence 53408, A
414	26	59.1	191	2	US-09-270-767-47919	Sequence 47919, A	487	26	59.1	343	2	US-09-902-540-10830	Sequence 10830, A
415	26	59.1	197	2	US-09-270-767-32922	Sequence 32922, A	488	26	59.1	344	2	US-08-818-111-69	Sequence 69, Appl
416	26	59.1	197	2	US-09-270-767-48139	Sequence 48139, A	489	26	59.1	344	2	US-09-056-556-69	Sequence 69, Appl
417	26	59.1	202	2	US-09-107-532A-6570	Sequence 6570, Ap	490	26	59.1	344	2	US-09-072-596-70	Sequence 70, Appl
418	26	59.1	203	6	5168051-12	Patent No. 5168051	491	26	59.1	344	2	US-09-072-596-70	Sequence 69, Appl
419	26	59.1	205	2	US-09-286-529-5	Sequence 5, Appl1	492	26	59.1	344	2	US-09-712-363-229	Sequence 229, App
420	26	59.1	210	2	US-09-248-796A-25835	Sequence 25835, A	493	26	59.1	344	2	US-10-193-002-70	Sequence 70, Appl
421	26	59.1	212	2	US-09-902-540-16451	Sequence 16451, A	494	26	59.1	344	2	US-10-084-843-69	Sequence 69, Appl
422	26	59.1	216	2	US-09-134-000C-4728	Sequence 4728, Ap	495	26	59.1	347	2	US-09-739-455-5	Sequence 5, Appl1
423	26	59.1	221	2	US-09-270-767-31937	Sequence 31937, A	496	26	59.1	347	2	US-09-739-455-5	Sequence 15, Appl
424	26	59.1	221	2	US-09-270-767-47154	Sequence 47154, A	497	26	59.1	347	2	US-10-153-919-5	Sequence 5, Appl1
425	26	59.1	223	2	US-09-270-767-33776	Sequence 33776, A	498	26	59.1	347	2	US-10-153-919-5	Sequence 15, Appl
426	26	59.1	228	2	US-09-270-767-48993	Sequence 48993, A	499	26	59.1	354	2	US-09-248-796A-16881	Sequence 16881, A
427	26	59.1	228	2	US-10-029-180-16	Sequence 16, Appl	500	26	59.1	359	2	US-09-252-991A-25152	Sequence 25152, A
428	26	59.1	231	2	US-09-270-767-32276	Sequence 32276, A	501	26	59.1	359	2	US-09-668-097A-28	Sequence 28, Appl
429	26	59.1	231	2	US-09-902-540-11593	Sequence 11593, A	502	26	59.1	362	1	US-08-415-751-5	Sequence 5, Appl1
430	26	59.1	231	2	US-09-854-864-23	Sequence 23, Appl	503	26	59.1	362	2	US-09-489-039A-8820	Sequence 8820, Ap
431	26	59.1	232	2	US-10-214-065-4	Sequence 4, Appl1	504	26	59.1	369	2	US-09-489-039A-9526	Sequence 9526, Ap
432	26	59.1	233	2	US-10-082-260-2	Sequence 2, Appl1	505	26	59.1	369	2	US-09-540-236-3738	Sequence 3738, Ap
433	26	59.1	233	2	US-08-815-783-2	Sequence 2, Appl1	506	26	59.1	370	2	US-09-252-991A-16913	Sequence 16913, A
434	26	59.1	233	2	US-09-879-919-2	Sequence 2, Appl1	507	26	59.1	370	2	US-09-331-568A-30	Sequence 30, Appl
435	26	59.1	233	2	US-09-854-864-2	Sequence 22, Appl	508	26	59.1	370	2	US-09-248-796A-16148	Sequence 16148, A
436	26	59.1	233	2	US-09-854-864-22	Sequence 22, Appl	509	26	59.1	376	2	US-09-489-039A-9125	Sequence 9125, Ap
437	26	59.1	233	2	US-09-157-864-2	Sequence 2, Appl1	510	26	59.1	379	1	US-08-347-029-2	Sequence 2, Appl1
438	26	59.1	234	2	US-09-879-919-13	Sequence 13, Appl	511	26	59.1	379	1	US-08-484-246-2	Sequence 2, Appl1
439	26	59.1	234	2	US-09-854-864-4	Sequence 4, Appl1	512	26	59.1	379	1	US-08-484-246-2	Sequence 2, Appl1
440	26	59.1	240	2	US-09-252-991A-18808	Sequence 18808, A	513	26	59.1	379	1	US-08-457-254-2	Sequence 2, Appl1
441	26	59.1	245	2	US-09-157-864-4	Sequence 4, Appl1	514	26	59.1	379	1	US-08-457-254-2	Sequence 4, Appl1
442	26	59.1	247	2	US-08-883-086-2	Sequence 2, Appl1	515	26	59.1	379	1	US-08-457-254-2	Sequence 4, Appl1
443	26	59.1	250	2	US-09-153-927-4	Sequence 4, Appl1	516	26	59.1	379	2	US-08-461-819-4	Sequence 4, Appl1
444	26	59.1	250	2	US-09-565-423-3	Sequence 3, Appl1	517	26	59.1	379	4	PCT-US94-08806-2	Sequence 2, Appl1
445	26	59.1	250	2	US-09-879-919-11	Sequence 11, Appl	518	26	59.1	379	4	PCT-US95-01775-2	Sequence 2, Appl1
446	26	59.1	250	2	US-09-866-028-76	Sequence 76, Appl	519	26	59.1	379	4	PCT-US95-01829-2	Sequence 2, Appl1
447	26	59.1	250	2	US-09-944-457-76	Sequence 76, Appl	520	26	59.1	379	4	PCT-US95-01829-2	Sequence 2, Appl1
448	26	59.1	250	2	US-10-214-065-2	Sequence 2, Appl1	521	26	59.1	379	4	PCT-US95-01829-2	Sequence 2, Appl1
449	26	59.1	250	2	US-09-944-457-76	Sequence 76, Appl	522	26	59.1	379	4	PCT-US95-01829-2	Sequence 2, Appl1
450	26	59.1	250	2	US-09-944-457-76	Sequence 76, Appl	523	26	59.1	382	2	US-09-868-552-12	Sequence 12, Appl
451	26	59.1	250	2	US-09-944-457-76	Sequence 76, Appl	524	26	59.1	382	2	US-09-868-552-12	Sequence 12, Appl
452	26	59.1	250	2	US-09-944-457-76	Sequence 76, Appl	525	26	59.1	382	2	US-09-868-552-12	Sequence 12, Appl
453	26	59.1	255	2	US-09-902-540-12724	Sequence 12724, A	526	26	59.1	382	2	US-09-868-552-12	Sequence 12, Appl
454	26	59.1	255	2	US-09-902-540-15668	Sequence 15668, A	527	26	59.1	382	2	US-09-868-552-12	Sequence 12, Appl
455	26	59.1	257	2	US-09-107-532A-5975	Sequence 5975, Ap	528	26	59.1	382	2	US-09-868-552-12	Sequence 12, Appl
456	26	59.1	263	1	US-09-902-540-10162	Sequence 10162, A	529	26	59.1	382	2	US-09-868-552-12	Sequence 12, Appl
457	26	59.1	263	1	US-08-565-386-9	Sequence 9, Appl1	530	26	59.1	382	2	US-09-868-552-12	Sequence 12, Appl
458	26	59.1	264	1	US-07-857-224B-19	Sequence 19, Appl1	531	26	59.1	382	2	US-09-868-552-12	Sequence 12, Appl
459	26	59.1	274	2	US-09-248-796A-17885	Sequence 17885, A	532	26	59.1	382	2	US-09-868-552-12	Sequence 12, Appl
460	26	59.1	274	2	US-09-902-540-15904	Sequence 15904, A	533	26	59.1	382	2	US-09-868-552-12	Sequence 12, Appl
461	26	59.1	276	2	US-09-543-681A-7430	Sequence 7430, Ap	534	26	59.1	389	2	US-09-107-532A-6185	Sequence 6185, Ap
462	26	59.1	276	2	US-09-134-000C-5866	Sequence 5866, Ap	535	26	59.1	397	2	US-09-270-767-59576	Sequence 59576, Ap
463	26	59.1	277	2	US-10-311-886-22	Sequence 22, Appl1	536	26	59.1	400	1	US-07-916-901-6	Sequence 6, Appl1
464	26	59.1	278	2	US-09-134-000C-3724	Sequence 3724, Ap	537	26	59.1	400	1	US-08-351-473B-4	Sequence 4, Appl1
465	26	59.1	282	2	US-09-252-991A-27671	Sequence 27671, A	538	26	59.1	401	2	US-09-489-039A-12882	Sequence 12882, A

539	26	59.1	410	1	US-08-723-415B-10	Sequence 10, Appl	612	26	59.1	745	2	US-10-270-878-11	Sequence 31, Appl
540	26	59.1	410	1	US-08-723-415B-11	Sequence 11, Appl	613	26	59.1	747	2	US-09-543-681A-5697	Sequence 5697, Ap
541	26	59.1	410	1	US-08-428-131-2	Sequence 2, Appl	614	26	59.1	757	2	US-09-725-735A-20	Sequence 20, Appl
542	26	59.1	410	1	US-08-603-846-2	Sequence 2, Appl	615	26	59.1	757	2	US-10-104-047-2773	Sequence 2773, Ap
543	26	59.1	410	2	US-09-078-596-2	Sequence 2, Appl	616	26	59.1	774	2	US-09-543-681A-5851	Sequence 5851, Ap
544	26	59.1	410	2	US-09-189-627A-10	Sequence 10, Appl	617	26	59.1	783	2	US-09-902-540-11833	Sequence 11823, A
545	26	59.1	410	2	US-09-189-627A-11	Sequence 11, Appl	618	26	59.1	823	2	US-08-481-435-4	Sequence 4, Appl
546	26	59.1	410	2	US-09-710-861-10	Sequence 10, Appl	619	26	59.1	825	2	US-09-489-039A-11003	Sequence 11003, A
547	26	59.1	410	2	US-09-710-861-11	Sequence 11, Appl	620	26	59.1	836	2	US-08-481-435-7	Sequence 7, Appl
548	26	59.1	414	2	US-10-018-730A-2	Sequence 2, Appl	621	26	59.1	844	2	US-08-481-435-8	Sequence 8, Appl
549	26	59.1	414	2	US-09-246-451A-2	Sequence 2, Appl	622	26	59.1	844	2	US-08-481-435-8	Sequence 8, Appl
550	26	59.1	414	2	US-09-246-451A-11	Sequence 11, Appl	623	26	59.1	859	4	US-08-395-580-2	Sequence 2, Appl
551	26	59.1	414	2	US-09-246-451A-13	Sequence 13, Appl	624	26	59.1	859	4	PCT-US95-02792-2	Sequence 2, Appl
552	26	59.1	415	2	US-09-538-093-467	Sequence 467, App	625	26	59.1	878	2	US-09-489-039A-13174	Sequence 13174, A
553	26	59.1	415	2	US-09-949-016-8808	Sequence 8808, App	626	26	59.1	891	2	US-09-949-016-7798	Sequence 7798, Ap
554	26	59.1	416	2	US-09-270-767-45965	Sequence 45965, A	627	26	59.1	908	2	US-10-037-417-4	Sequence 4, Appl
555	26	59.1	436	2	US-09-734-673-2	Sequence 2, Appl	628	26	59.1	937	2	US-09-232-991A-30507	Sequence 30507, A
556	26	59.1	436	2	US-09-523-849-2	Sequence 2, Appl	629	26	59.1	953	2	US-09-245-281-43	Sequence 43, Appl
557	26	59.1	438	2	US-09-964-956-57	Sequence 57, Appl	630	26	59.1	953	2	US-09-207-359B-43	Sequence 43, Appl
558	26	59.1	447	2	US-09-610-104C-2	Sequence 2, Appl	631	26	59.1	953	2	US-09-340-620A-43	Sequence 43, Appl
559	26	59.1	447	2	US-09-610-104C-11	Sequence 11, Appl	632	26	59.1	953	2	US-09-865-364-43	Sequence 43, Appl
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561	26	59.1	458	2	US-09-252-991A-20655	Sequence 20655, A	634	26	59.1	953	2	US-09-902-540-14681	Sequence 14681, A
562	26	59.1	469	2	US-09-543-681A-5573	Sequence 5573, Ap	635	26	59.1	953	2	US-09-728-721-43	Sequence 43, Appl
563	26	59.1	481	2	US-09-248-796A-15894	Sequence 15894, A	636	26	59.1	953	2	US-10-037-417-50	Sequence 50, Appl
564	26	59.1	484	2	US-09-949-016-10635	Sequence 10635, A	637	26	59.1	966	2	US-09-207-359B-47	Sequence 47, Appl
565	26	59.1	494	2	US-09-134-001C-4176	Sequence 4176, Ap	638	26	59.1	966	2	US-09-865-364-47	Sequence 47, Appl
566	26	59.1	501	2	US-08-906-791-2	Sequence 2, Appl	639	26	59.1	1007	2	US-09-252-991A-26494	Sequence 26494, A
567	26	59.1	501	2	US-09-111-730-1	Sequence 1, Appl	640	26	59.1	1010	2	US-09-134-001C-5178	Sequence 5178, Ap
568	26	59.1	502	2	US-10-104-047-3860	Sequence 3860, Ap	641	26	59.1	1016	2	US-09-252-991A-25429	Sequence 25429, A
569	26	59.1	503	2	US-09-562-737-68	Sequence 68, Appl	642	26	59.1	1036	2	US-10-014-882-2	Sequence 2, Appl
570	26	59.1	509	2	US-09-270-767-45763	Sequence 45763, A	643	26	59.1	1036	2	US-10-419-279-2	Sequence 2, Appl
571	26	59.1	513	2	US-08-948-564-2	Sequence 2, Appl	644	26	59.1	1052	1	US-08-852-806-2	Sequence 2, Appl
572	26	59.1	514	2	US-09-538-093-436	Sequence 436, App	645	26	59.1	1052	1	US-09-163-669-2	Sequence 2, Appl
573	26	59.1	516	2	US-09-820-790B-2	Sequence 2, Appl	646	26	59.1	1080	2	US-09-583-110-4036	Sequence 4036, Ap
574	26	59.1	522	2	US-09-252-991A-30451	Sequence 30451, A	647	26	59.1	1081	2	US-09-107-433-4843	Sequence 4843, Ap
575	26	59.1	522	2	US-09-949-016-7549	Sequence 7549, Ap	648	26	59.1	1167	2	US-09-248-796A-19366	Sequence 19366, A
576	26	59.1	532	2	US-08-481-435-12	Sequence 12, Appl	649	26	59.1	1176	2	US-09-661-332A-40	Sequence 40, Appl
577	26	59.1	532	2	US-09-252-991A-17265	Sequence 17265, A	650	26	59.1	1176	2	US-08-858-586-6	Sequence 6, Appl
578	26	59.1	542	2	US-09-820-790B-4	Sequence 4, Appl	651	26	59.1	1275	2	US-09-584-586-6	Sequence 6, Appl
579	26	59.1	549	2	US-09-252-991A-20196	Sequence 20196, A	652	26	59.1	1422	2	US-08-463-260A-82	Sequence 82, Appl
580	26	59.1	553	1	US-08-565-386-6	Sequence 6, Appl	653	26	59.1	1422	2	US-08-467-344A-82	Sequence 82, Appl
581	26	59.1	553	1	US-08-481-435-11	Sequence 11, Appl	654	26	59.1	1422	2	US-08-424-550B-82	Sequence 82, Appl
582	26	59.1	563	2	US-09-614-912-170	Sequence 170, Appl	655	26	59.1	1529	1	US-08-728-470-10	Sequence 10, Appl
583	26	59.1	568	2	US-09-628-966-10	Sequence 10, Appl	656	26	59.1	1529	1	US-08-617-641-10	Sequence 10, Appl
584	26	59.1	577	2	US-09-711-164-350	Sequence 350, App	657	26	59.1	1529	1	US-08-617-641-10	Sequence 10, Appl
585	26	59.1	577	2	US-09-792-024-97	Sequence 97, Appl	658	26	59.1	1600	1	US-10-037-417-49	Sequence 49, Appl
586	26	59.1	594	2	US-10-104-047-3281	Sequence 3281, Ap	659	26	59.1	1634	2	US-10-037-417-8	Sequence 8, Appl
587	26	59.1	600	2	US-09-248-796A-20014	Sequence 20014, A	660	26	59.1	1651	2	US-09-540-245A-18	Sequence 18, Appl
588	26	59.1	605	2	US-09-949-016-8269	Sequence 8269, Ap	661	26	59.1	1651	2	US-10-289-776-18	Sequence 18, Appl
589	26	59.1	630	2	US-09-949-016-7270	Sequence 7270, Ap	662	26	59.1	1651	2	US-10-037-417-6	Sequence 6, Appl
590	26	59.1	639	2	US-09-252-991A-25570	Sequence 25570, A	663	26	59.1	3597	2	US-10-037-417-2	Sequence 2, Appl
591	26	59.1	650	2	US-09-583-110-5074	Sequence 5074, Ap	664	26	59.1	3600	2	US-09-949-016-10932	Sequence 2, Appl
592	26	59.1	650	2	US-09-769-787-95	Sequence 95, Appl	665	26	59.1	3695	2	US-10-037-189-2	Sequence 2, Appl
593	26	59.1	654	1	US-08-441-139-11	Sequence 11, Appl	666	25	56.8	22	1	US-07-672-483-13	Sequence 13, Appl
594	26	59.1	654	1	US-09-919-172-54	Sequence 54, Appl	667	25	56.8	22	1	US-07-672-483-14	Sequence 14, Appl
595	26	59.1	654	2	US-09-919-039-2650	Sequence 2650, App	668	25	56.8	27	2	US-09-270-767-339761	Sequence 339761, A
596	26	59.1	654	2	US-09-107-433-2950	Sequence 2950, App	669	25	56.8	27	2	US-09-270-767-35978	Sequence 35978, A
597	26	59.1	655	2	US-09-949-016-6759	Sequence 6759, Ap	670	25	56.8	30	1	US-08-056-200-16	Sequence 16, Appl
598	26	59.1	665	1	US-08-441-139-16	Sequence 16, Appl	671	25	56.8	30	1	US-08-800-644-16	Sequence 16, Appl
599	26	59.1	668	1	US-08-205-018-2	Sequence 2, Appl	672	25	56.8	36	2	US-09-270-767-60099	Sequence 60099, A
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602	26	59.1	676	2	US-09-370-767-44900	Sequence 44900, A	675	25	56.8	39	2	US-08-652-426A-4	Sequence 4, Appl
603	26	59.1	680	2	US-09-107-433-3924	Sequence 3924, Ap	676	25	56.8	39	2	US-09-798-633A-63	Sequence 63, Appl
604	26	59.1	680	2	US-09-248-796A-15667	Sequence 15667, A	677	25	56.8	60	2	US-09-107-532A-4801	Sequence 4801, Ap
605	26	59.1	693	2	US-09-949-016-9666	Sequence 9666, Ap	678	25	56.8	60	2	US-09-328-352-7841	Sequence 7841, Ap
606	26	59.1	699	2	US-09-457-040B-18	Sequence 18, Appl	679	25	56.8	63	2	US-09-248-796A-17725	Sequence 21725, A
607	26	59.1	721	2	US-09-815-048-2	Sequence 2, Appl	680	25	56.8	65	2	US-09-134-001C-5663	Sequence 24263, A
608	26	59.1	732	2	US-09-915-048-4	Sequence 4, Appl	681	25	56.8	67	2	US-09-732-210-157	Sequence 157, App
609	26	59.1	745	2	US-09-585-858-31	Sequence 31, Appl	682	25	56.8	67	2	US-09-107-532A-4229	Sequence 4229, Ap
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611	26	59.1					684	25	56.8				

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686	25	56.8	81	2	US-09-488-039A-13817	Sequence 13817, A	759	25	56.8	181	2	US-09-902-540-14043	Sequence 14043, A
687	25	56.8	86	2	US-09-340-620A-46	Sequence 46, Appl	760	25	56.8	181	2	US-10-104-047-2558	Sequence 2558, Ap
688	25	56.8	86	2	US-09-728-721-46	Sequence 46, Appl	761	25	56.8	181	2	US-09-248-767-25617	Sequence 25017, A
689	25	56.8	90	2	US-09-583-110-3952	Sequence 3952, Ap	762	25	56.8	189	2	US-10-104-047-2642	Sequence 2642, Ap
690	25	56.8	92	2	US-09-107-433-4329	Sequence 4329, Ap	763	25	56.8	192	2	US-09-252-991A-30915	Sequence 30915, A
691	25	56.8	98	2	US-09-489-039A-7316	Sequence 7316, Ap	764	25	56.8	193	2	US-09-149-476-406	Sequence 406, App
692	25	56.8	101	2	US-09-328-352-7947	Sequence 7947, Ap	765	25	56.8	195	2	US-09-270-767-32507	Sequence 32507, A
693	25	56.8	101	2	US-09-732-210-52	Sequence 52, Appl	766	25	56.8	195	2	US-09-270-767-47724	Sequence 47724, A
694	25	56.8	102	1	US-08-480-473B-47	Sequence 47, Appl	767	25	56.8	196	2	US-09-893-737-8	Sequence 8, Appl1
695	25	56.8	102	1	US-08-915-213-47	Sequence 47, Appl	768	25	56.8	197	2	US-09-134-000C-6548	Sequence 6548, Ap
696	25	56.8	102	2	US-09-235-217-47	Sequence 47, Appl	769	25	56.8	198	2	US-09-080-983-15	Sequence 15, Appl
697	25	56.8	102	2	US-09-328-352-8147	Sequence 8147, Ap	770	25	56.8	198	2	US-09-613-486-15	Sequence 15, Appl
698	25	56.8	102	2	US-10-311-886-26	Sequence 26, Appl	771	25	56.8	198	2	US-09-303-518B-366	Sequence 366, App
699	25	56.8	106	2	US-09-513-999C-5967	Sequence 5967, Ap	772	25	56.8	198	2	US-09-303-518B-368	Sequence 368, App
700	25	56.8	107	2	US-09-248-796A-21089	Sequence 21089, A	773	25	56.8	199	2	US-08-311-731A-41	Sequence 41, Appl
701	25	56.8	108	2	US-09-513-999C-7995	Sequence 7995, A	774	25	56.8	199	2	US-09-818-780-37	Sequence 37, Appl
702	25	56.8	108	2	US-09-513-999C-8086	Sequence 8086, Ap	775	25	56.8	199	2	US-09-303-518B-372	Sequence 372, App
703	25	56.8	108	2	US-09-949-016-11049	Sequence 11049, A	776	25	56.8	200	2	US-09-019-942-3	Sequence 3, Appl1
704	25	56.8	109	2	US-09-252-991A-18508	Sequence 18508, A	777	25	56.8	200	2	US-09-470-271-3	Sequence 3, Appl1
705	25	56.8	111	2	US-09-248-796A-26302	Sequence 26302, A	778	25	56.8	200	2	US-09-748-537-3	Sequence 3, Appl1
706	25	56.8	114	1	US-08-828-239-1	Sequence 1, Appl1	779	25	56.8	200	2	US-09-270-767-36343	Sequence 36343, A
707	25	56.8	114	2	US-09-205-679-1	Sequence 1, Appl1	780	25	56.8	200	2	US-09-270-767-51560	Sequence 51560, A
708	25	56.8	114	2	US-09-270-767-44647	Sequence 44647, A	781	25	56.8	204	2	US-09-328-352-6898	Sequence 6898, Ap
709	25	56.8	115	1	US-09-057-762-9	Sequence 9, Appl1	782	25	56.8	206	2	US-09-270-767-43361	Sequence 43361, A
710	25	56.8	115	2	US-08-326-119A-9	Sequence 9, Appl1	783	25	56.8	207	2	US-09-902-540-10464	Sequence 10464, A
711	25	56.8	115	2	US-09-270-767-36838	Sequence 36838, A	784	25	56.8	207	2	US-09-711-164-395	Sequence 395, App
712	25	56.8	115	2	US-09-270-767-52055	Sequence 52055, A	785	25	56.8	214	2	US-08-259-451-7	Sequence 7, Appl1
713	25	56.8	116	2	US-09-341-461-31	Sequence 31, Appl	786	25	56.8	215	2	US-09-107-532A-4601	Sequence 4601, Ap
714	25	56.8	116	2	US-10-101-464A-586	Sequence 586, App	787	25	56.8	215	2	US-09-270-767-32005	Sequence 32005, A
715	25	56.8	116	2	US-09-205-658-241	Sequence 241, App	788	25	56.8	215	2	US-09-270-767-47222	Sequence 47222, A
716	25	56.8	116	2	US-09-513-999C-7134	Sequence 7134, App	789	25	56.8	217	2	US-09-252-991A-19413	Sequence 19413, A
717	25	56.8	120	2	US-09-621-976-5688	Sequence 5688, Ap	790	25	56.8	219	2	US-09-489-039A-12286	Sequence 12286, A
718	25	56.8	123	2	US-09-732-210-1145	Sequence 1145, Ap	791	25	56.8	222	2	US-09-902-540-15120	Sequence 15120, A
719	25	56.8	123	2	US-09-134-000C-3574	Sequence 3574, Ap	792	25	56.8	223	2	US-09-270-767-38098	Sequence 38098, A
720	25	56.8	126	2	US-09-732-210-1348	Sequence 1348, Ap	793	25	56.8	223	2	US-09-270-767-53315	Sequence 53315, A
721	25	56.8	126	2	US-09-107-532A-7118	Sequence 7118, Ap	794	25	56.8	223	2	US-10-104-047-2793	Sequence 2793, Ap
722	25	56.8	128	2	US-09-513-999C-5940	Sequence 5940, Ap	795	25	56.8	225	2	US-09-248-796A-20013	Sequence 20013, A
723	25	56.8	129	2	US-09-108-020-41	Sequence 41, Appl	796	25	56.8	225	2	US-09-602-777A-144	Sequence 144, App
724	25	56.8	129	2	US-09-685-296-91	Sequence 41, Appl	797	25	56.8	221	2	US-09-252-991A-27643	Sequence 27643, A
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727	25	56.8	138	2	US-09-270-767-50053	Sequence 50053, A	800	25	56.8	222	2	US-09-107-433-4974	Sequence 4974, Ap
728	25	56.8	138	2	US-09-248-796A-18341	Sequence 18341, A	801	25	56.8	223	2	US-09-214-631-7	Sequence 7, Appl1
729	25	56.8	143	2	US-09-248-796A-28178	Sequence 28178, A	802	25	56.8	224	1	US-08-399-567-5	Sequence 5, Appl1
730	25	56.8	145	2	US-09-513-999C-6123	Sequence 6123, Ap	803	25	56.8	224	2	US-09-902-540-14926	Sequence 14926, A
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733	25	56.8	149	2	US-09-621-976-4854	Sequence 4854, Ap	806	25	56.8	228	1	US-08-453-943-2	Sequence 2, Appl1
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ALIGNMENTS

RESULT 1
US-08-159-339A-135
Sequence 135, Application US/08159339A
Patent No. 6037135
GENERAL INFORMATION:
APPLICANT: Kubo, Ralph T.
APPLICANT: Grey, Howard M.
APPLICANT: Sette, Alessandro
APPLICANT: Celis, Esben
TITLE OF INVENTION: HLA Binding peptides and Their
TITLE OF INVENTION: Uses
NUMBER OF SEQUENCES: 1254
CORRESPONDENCE ADDRESSES:
ADDRESSEE: Townsend and Townsend and Crew LLP
STREET: Two Embarcadero Center, Eighth Floor
CITY: San Francisco
STATE: CA
COUNTRY: USA
ZIP: 94111-3834
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSeq for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/159,339A
FILING DATE: 29-NOV-1993
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/926,666
FILING DATE: 07-AUG-1992
APPLICATION NUMBER: US 08/027,746
FILING DATE: 05-MAR-1993
APPLICATION NUMBER: US 08/103,396
FILING DATE: 06-AUG-1993
ATTORNEY/AGENT INFORMATION:
NAME: Weber, Ellen Lauver
REGISTRATION NUMBER: 32,762
REFERENCE/DOCKET NUMBER: 018623-005030US
TELEPHONE: (415) 576-0200
TELEFAX: (415) 576-0300
TELEX:
INFORMATION FOR SEQ ID NO: 135:

SEQUENCE CHARACTERISTICS:
LENGTH: 9 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-08-159-339A-135

Query Match 100.0%; Score 44; DB 2; Length 9;
Best Local Similarity 100.0%; Pred. No. 4.6e+05;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 1 QQLLRREV 9
Db 1 QQLLRREV 9

RESULT 2

US-08-934-915-160
Sequence 160, Application US/08934915
Patent No. 5932412
GENERAL INFORMATION:
APPLICANT: DILLNER, JOAKIM
APPLICANT: DILLNER, IENA
APPLICANT: CHENG, HWEI-MING
TITLE OF INVENTION: SYNTHETIC PEPTIDES OF HUMAN
TITLE OF INVENTION: PAPILLOMAVIRUS 1, 5, 6, 8,
TITLE OF INVENTION: 11, 16, 18, 31, 33 AND 56,
TITLE OF INVENTION: USEFUL IN IMMUNOASSAY FOR
NUMBER OF SEQUENCES: 193
CORRESPONDENCE ADDRESSES:
ADDRESSEE: MASON & ASSOCIATES, P.A.
STREET: 1757 U.S. HWY. 19 NORTH, SUITE 500
CITY: CLEARWATER
STATE: FLORIDA
COUNTRY: U.S.A.
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: Windows 3.0
SOFTWARE: Microsoft Word 6.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/934,915
FILING DATE: 22-SEP-1997
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/949,836
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: LOUISE A. FOUTCH
REGISTRATION NUMBER: 37,133
REFERENCE/DOCKET NUMBER: 1946.6
TELECOMMUNICATION INFORMATION:
TELEPHONE: 813-538-3800
TELEFAX: 813-538-3820
TELEX:
INFORMATION FOR SEQ ID NO: 160:

SEQUENCE CHARACTERISTICS:
LENGTH: 20 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-08-934-915-160

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Best Local Similarity 100.0%; Pred. No. 0.052;
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RESULT 3
US-09-701-080C-18
; Sequence 18, Application US/09701080C
; Patent No. 6864054
; GENERAL INFORMATION:
; APPLICANT: INSTITUTE OF MOLECULAR AND CELL BIOLOGY
; TITLE OF INVENTION: POLYPEPTIDES FROM CREB BINDING PROTEIN AND RELATED PROTEIN P300 F
; TITLE OF INVENTION: TRANSCRIPTIONAL REGULATION
; FILE REFERENCE: N73477C GCM
; CURRENT APPLICATION NUMBER: US/09/701,080C
; CURRENT FILING DATE: 2001-02-27
; PRIOR APPLICATION NUMBER: GB 9811303.8
; PRIOR FILING DATE: 1998-05-26
; PRIOR APPLICATION NUMBER: GB 9900157.0
; PRIOR FILING DATE: 1999-01-05
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 18
; LENGTH: 151
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-09-701-080C-18

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Db 35 QOLLRREVY 43

RESULT 4
US-09-980-523A-2
; Sequence 2, Application US/09980523A
; Patent No. 6783763
; GENERAL INFORMATION:
; APPLICANT: CHOPPIN, JEANNINE
; APPLICANT: BOURGAULT VILADA, ISABELLE
; APPLICANT: GUILLET, JEAN-GERARD
; APPLICANT: CONNAN, FRANCES
; APPLICANT: FERRIES, ESTELLE
; TITLE OF INVENTION: POLYPEPTOPIC PROTEIN FRAGMENTS OF THE E6 AND E7
; TITLE OF INVENTION: PROTEINS OF HPV, THEIR PRODUCTION AND THEIR USE
; TITLE OF INVENTION: PARTICULARLY IN VACCINATION
; FILE REFERENCE: WO1 AO INS
; CURRENT APPLICATION NUMBER: US/09/980,523A
; CURRENT FILING DATE: 2002-04-29
; PRIOR APPLICATION NUMBER: PCT/FR00/01513
; PRIOR FILING DATE: 2000-05-31
; PRIOR APPLICATION NUMBER: FR 99/07012
; PRIOR FILING DATE: 1999-06-03
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 2
; LENGTH: 158
; TYPE: PRT
; ORGANISM: Human Papillomavirus
US-09-980-523A-2

Query Match          100.0%; Score 44; DB 2; Length 158;
Best Local Similarity 100.0%; Pred. No. 0.37;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 QOLLRREVY 9
Db 42 QOLLRREVY 50

RESULT 5
US-08-316-239B-3
; Sequence 3, Application US/08316239B
```

```
; Patent No. 5679509
; GENERAL INFORMATION:
; APPLICANT: Wheeler, Cosette M.
; APPLICANT: Parmenter, Cheryl A.
; TITLE OF INVENTION: Methods and a Diagnostic Aid for
; TITLE OF INVENTION: Distinguishing a Subset of HPV that is Associated with an
; TITLE OF INVENTION: Increased Risk of Developing Cervical Dysplasia and
; TITLE OF INVENTION: Cervical Cancer
; NUMBER OF SEQUENCES: 4
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Jagtiani & Associates
; STREET: 6126 Rocky Way Court
; CITY: Centreville
; STATE: VA
; COUNTRY: USA
; ZIP: 20120-3400
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/316,239B
; FILING DATE: 30-SEP-1994
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Jagtiani, Ajay A.
; REGISTRATION NUMBER: 35,205
; REFERENCE/DOCKET NUMBER: UNME-0001
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (703) 817-9453
; TELEFAX: (703) 803-9387
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 162 amino acids
; TYPE: amino acid
; STRANDEDNESS: not relevant
; TOPOLOGY: not relevant
; MOLECULE TYPE: protein
; HYPOTHETICAL: NO
US-08-316-239B-3

Query Match          100.0%; Score 44; DB 1; Length 162;
Best Local Similarity 100.0%; Pred. No. 0.38;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 QOLLRREVY 9
Db 42 QOLLRREVY 50

RESULT 6
US-08-316-239B-4
; Sequence 4, Application US/08316239B
; Patent No. 5679509
; GENERAL INFORMATION:
; APPLICANT: Wheeler, Cosette M.
; APPLICANT: Parmenter, Cheryl A.
; TITLE OF INVENTION: Methods and a Diagnostic Aid for
; TITLE OF INVENTION: Distinguishing a Subset of HPV that is Associated with an
; TITLE OF INVENTION: Increased Risk of Developing Cervical Dysplasia and
; NUMBER OF SEQUENCES: 4
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Jagtiani & Associates
; STREET: 6126 Rocky Way Court
; CITY: Centreville
; STATE: VA
; COUNTRY: USA
; ZIP: 20120-3400
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
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```

; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/316,239B
; FILING DATE: 30-SEP-1994
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Jagtiani, Ajay A.
; REGISTRATION NUMBER: 35,205
; REFERENCE/DOCKET NUMBER: UNME-0001
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (703) 817-9453
; TELEFAX: (703) 803-9387
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 162 amino acids
; TYPE: amino acid
; STRANDEDNESS: not relevant
; TOPOLOGY: not relevant
; MOLECULE TYPE: protein
; HYPOTHEICAL: NO
;
US-08-316-239B-4
;
Query Match 100.0%; Score 44; DB 1; Length 162;
Best Local Similarity 100.0%; Pred. No. 0.38;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 QQLRREYV 9
Db 42 QQLRREYV 50

RESULT 7
US-08-860-165-14
; Sequence 14, Application US/08860165A
; Patent No. 6004557
; GENERAL INFORMATION:
; APPLICANT: EDWARDS, Stirling John
; APPLICANT: COX, John Cooper
; APPLICANT: WEBB, Elizabeth Ann
; TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
; FILE REFERENCE: 17227/130
; CURRENT APPLICATION NUMBER: US/08/860,165A
; CURRENT FILING DATE: 1997-09-22
; EARLIER APPLICATION NUMBER: PCT/AU95/00868
; EARLIER FILING DATE: 1995-12-20
; EARLIER APPLICATION NUMBER: AU PN0157
; EARLIER FILING DATE: 1994-12-20
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 14
; LENGTH: 172
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Gene Fusion
;
US-08-860-165-14
;
Query Match 100.0%; Score 44; DB 2; Length 172;
Best Local Similarity 100.0%; Pred. No. 0.4;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 QQLRREYV 9
Db 111 QQLRREYV 119

RESULT 8
US-09-359-382-14
; Sequence 14, Application US/09359382
; Patent No. 6306397
; GENERAL INFORMATION:
```

```

; APPLICANT: EDWARDS, Stirling John
; APPLICANT: COX, John Cooper
; APPLICANT: WEBB, Elizabeth Ann
; APPLICANT: FRAZER, Ian
; TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
; FILE REFERENCE: 017227/0148
; CURRENT APPLICATION NUMBER: US/09/359,382
; CURRENT FILING DATE: 1999-07-23
; EARLIER APPLICATION NUMBER: US 08/860,165
; EARLIER FILING DATE: 1997-09-22
; EARLIER APPLICATION NUMBER: PCT/AU95/00868
; EARLIER FILING DATE: 1995-12-20
; EARLIER APPLICATION NUMBER: AU PN0157/94
; EARLIER FILING DATE: 1994-12-20
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 14
; LENGTH: 172
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
;
US-09-359-382-14
;
Query Match 100.0%; Score 44; DB 2; Length 172;
Best Local Similarity 100.0%; Pred. No. 0.4;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 QQLRREYV 9
Db 111 QQLRREYV 119

RESULT 9
US-08-117-083-10
; Sequence 10, Application US/08117083
; Patent No. 5719054
; GENERAL INFORMATION:
; APPLICANT: Boursnell, Michael B.
; APPLICANT: Inglis, Stephen C.
; APPLICANT: Munro, Alan J.
; TITLE OF INVENTION: Recombinant Virus Vectors Encoding Human
; NUMBER OF SEQUENCES: 70
; CORRESPONDENCE ADDRESS:
; ADDRESS: Walter H. Dreger
; STREET: 4 Embarcadero Center, Suite 3400
; CITY: San Francisco
; STATE: CA
; COUNTRY: USA
; ZIP: 94111
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/117,083
; FILING DATE: 10-SEP-1993
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Dreger, Walter H.
; REGISTRATION NUMBER: 24,190
; REFERENCE/DOCKET NUMBER: A-58783
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 415-781-1989
; TELEFAX: 415-398-3249
; TELEX: 910 277299
; INFORMATION FOR SEQ ID NO: 10:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 182 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
```

FEATURE:
NAME/KEY: Protein
LOCATION: 1..182
OTHER INFORMATION: /note="Xaa refers to stop codon in
OTHER INFORMATION: the open reading frame."
US-08-117-083-10

Query Match 100.0%; Score 44; DB 1; Length 182;
Best Local Similarity 100.0%; Pred. No. 0.42;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 QOLLRREVY 9
|||||
Db 43 QOLLRREVY 51

RESULT 10
US-09-462-993-1
Sequence 1, Application US/09462993
Patent No. 6884786
GENERAL INFORMATION:
APPLICANT: KIENY, Marie-Paule
APPLICANT: BALLOU, Jean-Marc
APPLICANT: BIZOUANE, Nadine
TITLE OF INVENTION: ANTITUMORAL COMPOSITION BASED ON IMMUNOGENIC
FILE REFERENCE: 01753-122
CURRENT APPLICATION NUMBER: US/09/462,993
CURRENT FILING DATE: 2000-04-17
PRIOR APPLICATION NUMBER: PCT/FR98/01576
PRIOR FILING DATE: 1998-07-17
PRIOR APPLICATION NUMBER: FR 97/09152
PRIOR FILING DATE: 1997-07-18
NUMBER OF SEQ ID NOS: 23
SOFTWARE: Patentin Ver. 2.2
SEQ ID NO 1
LENGTH: 243
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Derived from
OTHER INFORMATION: human papillomavirus, strain HPV-16, B6 protein
OTHER INFORMATION: fused F protein signals, clone B6*TMF.
US-09-462-993-1

Query Match 100.0%; Score 44; DB 2; Length 243;
Best Local Similarity 100.0%; Pred. No. 0.56;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 QOLLRREVY 9
|||||
Db 70 QOLLRREVY 78

RESULT 11
US-08-860-165-10
Sequence 10, Application US/08860165A
Patent No. 6004557
GENERAL INFORMATION:
APPLICANT: EDWARDS, Stirling John
APPLICANT: COX, John Cooper
APPLICANT: WEBB, Elizabeth Ann
APPLICANT: PRAGER, Ian
TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
FILE REFERENCE: 17227/130
CURRENT APPLICATION NUMBER: US/08/860,165A
CURRENT FILING DATE: 1997-09-22
PRIOR APPLICATION NUMBER: PCT/AU95/00868
PRIOR FILING DATE: 1995-12-20
EARLIER APPLICATION NUMBER: AU PNO157
EARLIER FILING DATE: 1994-12-20
NUMBER OF SEQ ID NOS: 15
SOFTWARE: Patentin Ver. 2.0

SEQ ID NO 10
LENGTH: 266
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Gene Fusion
US-08-860-165-10

Query Match 100.0%; Score 44; DB 2; Length 266;
Best Local Similarity 100.0%; Pred. No. 0.61;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 QOLLRREVY 9
|||||
Db 42 QOLLRREVY 50

RESULT 12
US-09-359-382-10
Sequence 10, Application US/09359382
Patent No. 6306397
GENERAL INFORMATION:
APPLICANT: EDWARDS, Stirling John
APPLICANT: COX, John Cooper
APPLICANT: WEBB, Elizabeth Ann
APPLICANT: PRAGER, Ian
TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
FILE REFERENCE: 017227/0148
CURRENT APPLICATION NUMBER: US/09/359,382
CURRENT FILING DATE: 1999-07-23
EARLIER APPLICATION NUMBER: US 08/860,165
EARLIER FILING DATE: 1997-09-22
PRIOR APPLICATION NUMBER: PCT/AU95/00868
PRIOR FILING DATE: 1995-12-20
EARLIER APPLICATION NUMBER: AU PNO157/94
EARLIER FILING DATE: 1994-12-20
NUMBER OF SEQ ID NOS: 27
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 10
LENGTH: 266
TYPE: PRT
ORGANISM: Human papillomavirus type 16
US-09-359-382-10

Query Match 100.0%; Score 44; DB 2; Length 266;
Best Local Similarity 100.0%; Pred. No. 0.61;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 QOLLRREVY 9
|||||
Db 42 QOLLRREVY 50

RESULT 13
US-09-367-309A-1
Sequence 1, Application US/09367309A
Patent No. 6428807
GENERAL INFORMATION:
APPLICANT: MACFARLAN, RODERICK I.
APPLICANT: MALIAROS, JIM
TITLE OF INVENTION: CHELATING IMMUNOSTIMULATING COMPLEXES
FILE REFERENCE: 017227/0149
CURRENT APPLICATION NUMBER: US/09/367,309A
CURRENT FILING DATE: 1999-08-11
PRIOR APPLICATION NUMBER: PCT/AU98/00080
PRIOR FILING DATE: 1998-02-13
PRIOR APPLICATION NUMBER: AU PO 5178
PRIOR FILING DATE: 1997-02-19
NUMBER OF SEQ ID NOS: 6
SOFTWARE: Patentin Ver. 2.1
SEQ ID NO 1
LENGTH: 266
TYPE: PRT

ORGANISM: Human papillomavirus type 16
US-09-367-309A-1

Query Match 100.0%; Score 44; DB 2; Length 266;
Best Local Similarity 100.0%; Pred. No. 0.61;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 QQLRREYV 9
Db 42 QQLRREYV 50

RESULT 14
US-09-485-885-4
Sequence 4, Application US/09485885
Patent No. 6342224
GENERAL INFORMATION:
APPLICANT: Bruck, Claudine
APPLICANT: Cabezon Silva, Teresa
APPLICANT: Delisse, Anne-Marie Eva Fernande
APPLICANT: Gerard, Catherine Marie Ghislaine
APPLICANT: Lombardo-Bencheikh, Angela
TITLE OF INVENTION: Vaccine
FILE REFERENCE: B45107
CURRENT APPLICATION NUMBER: US/09/485,885
CURRENT FILING DATE: 2000-02-18
PRIOR APPLICATION NUMBER: PCT/EP98/05285
PRIOR FILING DATE: 1998-08-17
PRIOR APPLICATION NUMBER: GB 9717953.5
PRIOR FILING DATE: 1997-08-22
NUMBER OF SEQ ID NOS: 23
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 4
LENGTH: 273
TYPE: PRT
ORGANISM: Homo sapien
US-09-485-885-4

Query Match 100.0%; Score 44; DB 2; Length 273;
Best Local Similarity 100.0%; Pred. No. 0.62;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 QQLRREYV 9
Db 148 QQLRREYV 156

RESULT 15
US-09-485-885-10
Sequence 10, Application US/09485885
Patent No. 6342224
GENERAL INFORMATION:
APPLICANT: Bruck, Claudine
APPLICANT: Cabezon Silva, Teresa
APPLICANT: Delisse, Anne-Marie Eva Fernande
APPLICANT: Gerard, Catherine Marie Ghislaine
APPLICANT: Lombardo-Bencheikh, Angela
TITLE OF INVENTION: Vaccine
FILE REFERENCE: B45107
CURRENT APPLICATION NUMBER: US/09/485,885
CURRENT FILING DATE: 2000-02-18
PRIOR APPLICATION NUMBER: PCT/EP98/05285
PRIOR FILING DATE: 1998-08-17
PRIOR APPLICATION NUMBER: GB 9717953.5
PRIOR FILING DATE: 1997-08-22
NUMBER OF SEQ ID NOS: 23
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 10
LENGTH: 292
TYPE: PRT
ORGANISM: Homo sapien
US-09-485-885-10

Query Match 100.0%; Score 44; DB 2; Length 292;
Best Local Similarity 100.0%; Pred. No. 0.66;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 QQLRREYV 9
Db 167 QQLRREYV 175

RESULT 16
US-09-485-885-6
Sequence 6, Application US/09485885
Patent No. 6342224
GENERAL INFORMATION:
APPLICANT: Bruck, Claudine
APPLICANT: Cabezon Silva, Teresa
APPLICANT: Delisse, Anne-Marie Eva Fernande
APPLICANT: Gerard, Catherine Marie Ghislaine
APPLICANT: Lombardo-Bencheikh, Angela
TITLE OF INVENTION: Vaccine
FILE REFERENCE: B45107
CURRENT APPLICATION NUMBER: US/09/485,885
CURRENT FILING DATE: 2000-02-18
PRIOR APPLICATION NUMBER: PCT/EP98/05285
PRIOR FILING DATE: 1998-08-17
PRIOR APPLICATION NUMBER: GB 9717953.5
PRIOR FILING DATE: 1997-08-22
NUMBER OF SEQ ID NOS: 23
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 6
LENGTH: 371
TYPE: PRT
ORGANISM: Homo sapien
US-09-485-885-6

Query Match 100.0%; Score 44; DB 2; Length 371;
Best Local Similarity 100.0%; Pred. No. 0.83;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 QQLRREYV 9
Db 148 QQLRREYV 156

RESULT 17
US-09-485-885-14
Sequence 14, Application US/09485885
Patent No. 6342224
GENERAL INFORMATION:
APPLICANT: Bruck, Claudine
APPLICANT: Cabezon Silva, Teresa
APPLICANT: Delisse, Anne-Marie Eva Fernande
APPLICANT: Gerard, Catherine Marie Ghislaine
APPLICANT: Lombardo-Bencheikh, Angela
TITLE OF INVENTION: Vaccine
FILE REFERENCE: B45107
CURRENT APPLICATION NUMBER: US/09/485,885
CURRENT FILING DATE: 2000-02-18
PRIOR APPLICATION NUMBER: PCT/EP98/05285
PRIOR FILING DATE: 1998-08-17
PRIOR APPLICATION NUMBER: GB 9717953.5
PRIOR FILING DATE: 1997-08-22
NUMBER OF SEQ ID NOS: 23
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 14
LENGTH: 390
TYPE: PRT
ORGANISM: Homo sapien
US-09-485-885-14

Query Match 100.0%; Score 44; DB 2; Length 390;
Best Local Similarity 100.0%; Pred. No. 0.87;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 QOLLRREV 9
| | | | |
Db 167 QOLLRREV 175

RESULT 18
US-09-248-796A-17467
; Sequence 17467, Application US/09248796A
; Patent No. 6747137
; GENERAL INFORMATION:
; APPLICANT: Keith Weinstock et al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDA ALBICAN
; FILE REFERENCE: 107196.132
; CURRENT APPLICATION NUMBER: US/09/248,796A
; PRIOR FILING DATE: 1999-02-12
; PRIOR APPLICATION NUMBER: US 60/074,725
; PRIOR FILING DATE: 1998-02-13
; PRIOR APPLICATION NUMBER: US 60/096,409
; PRIOR FILING DATE: 1998-08-13
; NUMBER OF SEQ ID NOS: 28208
; SEQ ID NO 17467
; LENGTH: 415
; TYPE: PRT
; ORGANISM: Candida albicans
US-09-248-796A-17467

Query Match 79.5%; Score 35; DB 2; Length 415;
Best Local Similarity 66.7%; Pred. No. 50;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 QOLLRREV 9
| | | | |
Db 21 QOLLRREV 29

RESULT 19
US-08-159-339A-252
; Sequence 252, Application US/08159339A
; Patent No. 6037135
; GENERAL INFORMATION:
; APPLICANT: Kubo, Ralph T.
; APPLICANT: Grey, Howard M.
; APPLICANT: Sette, Alessandro
; APPLICANT: Celis, Basteen
; TITLE OF INVENTION: HLA Binding peptides and Their
; NUMBER OF SEQUENCES: 1254
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Townsend and Townsend and Crew LLP
; STREET: Two Embarcadero Center, Eighth Floor
; CITY: San Francisco
; STATE: CA
; COUNTRY: USA
; ZIP: 94111-3834
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/159,339A
; FILING DATE: 29-NOV-1993
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/926,666
; FILING DATE: 07-AUG-1992
; APPLICATION NUMBER: US 08/027,746
; FILING DATE: 05-MAR-1993
; APPLICATION NUMBER: US 08/103,396
; FILING DATE: 06-AUG-1993
; ATTORNEY/AGENT INFORMATION:

NAME: Weber, Ellen Lauver
; REGISTRATION NUMBER: 32,762
; REFERENCE/DOCKET NUMBER: 018623-005030US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (415) 576-0200
; TELEFAX: (415) 576-0300
; TELEX:
; INFORMATION FOR SEQ ID NO: 252:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 9 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-08-159-339A-252

Query Match 77.3%; Score 34; DB 2; Length 9;
Best Local Similarity 100.0%; Pred. No. 4.6e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3 LLRREV 9
| | | | |
Db 1 LLRREV 7

RESULT 20
US-08-317-522A-5
; Sequence 5, Application US/08317522A
; Patent No. 5599918
; GENERAL INFORMATION:
; APPLICANT: Fukuda, Michiko N.
; TITLE OF INVENTION: Trophinin and Trophinin-Assisting
; PROTEINS
; NUMBER OF SEQUENCES: 13
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Campbell and Flores
; STREET: 4370 La Jolla Village Drive, Suite 700
; CITY: San Diego
; STATE: California
; COUNTRY: USA
; ZIP: 92122
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC Compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/317,522A
; FILING DATE: 04-OCT-1994
; CLASSIFICATION: 536
; ATTORNEY/AGENT INFORMATION:
; NAME: Campbell, Cathryn A.
; REGISTRATION NUMBER: 31,815
; REFERENCE/DOCKET NUMBER: P-LA 9991
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (619) 535-9001
; TELEFAX: (619) 535-8949
; INFORMATION FOR SEQ ID NO: 5:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 732 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-317-522A-5

Query Match 75.0%; Score 33; DB 1; Length 732;
Best Local Similarity 87.5%; Pred. No. 2.1e+02;
Matches 7; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 QOLLRREV 8
| | | | |
Db 439 QOLLRREV 446

RESULT 21
US-08-439-818A-5
Sequence 5, Application US/08439818A
Patent No. 5654145
GENERAL INFORMATION:
APPLICANT: Fukuda, Michiko N.
TITLE OF INVENTION: Trophinin and Trophinin-Assisting
Proteins
TITLE OF INVENTION: Proteins
NUMBER OF SEQUENCES: 22
CORRESPONDENCE ADDRESS:
ADDRESSEE: Campbell and Flores
STREET: 4370 La Jolla Village Drive, Suite 700
CITY: San Diego
STATE: California
COUNTRY: USA
ZIP: 92122
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/439,818A
FILING DATE: 12-MAY-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/317,522
FILING DATE: 04-OCT-1994
ATTORNEY/AGENT INFORMATION:
NAME: Campbell, Cathryn A.
REGISTRATION NUMBER: 31,815
REFERENCE/DOCKET NUMBER: P-LA 1563
TELECOMMUNICATION INFORMATION:
TELEPHONE: (619) 535-9001
TELEFAX: (619) 535-8949
INFORMATION FOR SEQ ID NO: 5:
SEQUENCE CHARACTERISTICS:
LENGTH: 778 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-439-818A-5

Query Match 75.0%; Score 33; DB 1; Length 778;
Best Local Similarity 87.5%; Pred. No. 2.2e+02;
Matches 7; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

OY 1 QOLLRREV 8
Db 439 QOLLRREV 446

RESULT 22
US-08-751-965-5
Sequence 5, Application US/08751965
Patent No. 5658360
GENERAL INFORMATION:
APPLICANT: Fukuda, Michiko N.
TITLE OF INVENTION: Trophinin and Trophinin-Assisting
Proteins
TITLE OF INVENTION: Proteins
NUMBER OF SEQUENCES: 22
CORRESPONDENCE ADDRESS:
ADDRESSEE: Campbell and Flores
STREET: 4370 La Jolla Village Drive, Suite 700
CITY: San Diego
STATE: California
COUNTRY: USA
ZIP: 92122
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/751,965
FILING DATE: Herewith
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/439,818
FILING DATE: 12-MAY-1995
ATTORNEY/AGENT INFORMATION:
NAME: Campbell, Cathryn A.
REGISTRATION NUMBER: 31,815
REFERENCE/DOCKET NUMBER: P-LA 2252
TELECOMMUNICATION INFORMATION:
TELEPHONE: (619) 535-9001
TELEFAX: (619) 535-8949
INFORMATION FOR SEQ ID NO: 5:
SEQUENCE CHARACTERISTICS:
LENGTH: 778 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-751-965-5

Query Match 75.0%; Score 33; DB 1; Length 778;
Best Local Similarity 87.5%; Pred. No. 2.2e+02;
Matches 7; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

OY 1 QOLLRREV 8
Db 439 QOLLRREV 446

RESULT 23
US-08-738-975-5
Sequence 5, Application US/08738975
Patent No. 5880267
GENERAL INFORMATION:
APPLICANT: Fukuda, Michiko N.
TITLE OF INVENTION: Trophinin and Trophinin-Assisting
Proteins
TITLE OF INVENTION: Proteins
NUMBER OF SEQUENCES: 22
CORRESPONDENCE ADDRESS:
ADDRESSEE: Campbell and Flores
STREET: 4370 La Jolla Village Drive, Suite 700
CITY: San Diego
STATE: California
COUNTRY: USA
ZIP: 92122
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/738,975
FILING DATE: herewith
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/439,818
FILING DATE: 05-Dec-1995
ATTORNEY/AGENT INFORMATION:
NAME: Campbell, Cathryn A.
REGISTRATION NUMBER: 31,815
REFERENCE/DOCKET NUMBER: P-LA 2251
TELECOMMUNICATION INFORMATION:
TELEPHONE: (619) 535-9001
TELEFAX: (619) 535-8949
INFORMATION FOR SEQ ID NO: 5:
SEQUENCE CHARACTERISTICS:
LENGTH: 778 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein

US-08-738-975-5

Query Match 75.0%; Score 33; DB 1; Length 778;
Best Local Similarity 87.5%; Pred. No. 2.2e+02;
Matches 7; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 QOLLRREV 8
|||||:
Db 439 QOLLRREV 446

RESULT 24

US-08-728-626-5
; Sequence 5, Application US/08728626
; Patent No. 5910451
; GENERAL INFORMATION:
; APPLICANT: Fukuda, Michiko N.
; TITLE OF INVENTION: Trophinin and Trophinin-Assisting
; NUMBER OF SEQUENCES: 22
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Campbell and Flores
; STREET: 4370 La Jolla Village Drive, Suite 700
; CITY: San Diego
; STATE: California
; COUNTRY: USA
; ZIP: 92122
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/728,626
; FILING DATE:
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/439,818
; FILING DATE: 12-MAY-1995
; APPLICATION NUMBER: US 08/317,522
; FILING DATE: 04-OCT-1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Campbell, Cathryn A.
; REGISTRATION NUMBER: 31,815
; REFERENCE/DOCKET NUMBER: P-LA 1563
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (619) 535-9001
; TELEFAX: (619) 535-8949
; INFORMATION FOR SEQ ID NO: 5:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 778 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-728-626-5

Query Match 75.0%; Score 33; DB 1; Length 778;
Best Local Similarity 87.5%; Pred. No. 2.2e+02;
Matches 7; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 QOLLRREV 8
|||||:
Db 439 QOLLRREV 446

RESULT 25

US-08-808-599A-5
; Sequence 5, Application US/08808599A
; Patent No. 611089
; GENERAL INFORMATION:
; APPLICANT: Fukuda, Michiko N.
; TITLE OF INVENTION: Trophinin, Trophinin-Assisting
; TITLE OF INVENTION: Proteins and Methods to Inhibit Implantation

NUMBER OF SEQUENCES: 41

CORRESPONDENCE ADDRESS:

ADDRESSEE: Campbell & Flores LLP

STREET: 4370 La Jolla Village Drive, Suite 700

CITY: San Diego

STATE: California

COUNTRY: USA

ZIP: 92122

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patentin Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/808,599A

FILING DATE: 28-FEB-1997

CLASSIFICATION: 424

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 08/317,522

FILING DATE: 04-OCT-1994

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 08/439,818

FILING DATE: 12-MAY-1995

ATTORNEY/AGENT INFORMATION:

NAME: Campbell, Cathryn A.

REGISTRATION NUMBER: 31,815

REFERENCE/DOCKET NUMBER: P-LA 2256

TELECOMMUNICATION INFORMATION:

TELEPHONE: (619) 535-9001

TELEFAX: (619) 535-8949

INFORMATION FOR SEQ ID NO: 5:

SEQUENCE CHARACTERISTICS:

LENGTH: 778 amino acids

TYPE: amino acid

TOPOLOGY: linear

MOLECULE TYPE: protein

US-08-808-599A-5

Query Match 75.0%; Score 33; DB 2; Length 778;
Best Local Similarity 87.5%; Pred. No. 2.2e+02;
Matches 7; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 QOLLRREV 8
|||||:
Db 439 QOLLRREV 446

RESULT 26

US-09-252-991A-25089
; Sequence 25089, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 25089
; LENGTH: 639
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-25089

Query Match 72.7%; Score 32; DB 2; Length 639;
Best Local Similarity 100.0%; Pred. No. 2.9e+02;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 QLLRREV 8
 Db 440 QLLRREV 446

RESULT 27

US-09-424-783-2
 ; Sequence 2, Application US/09424783
 ; Patent No. 6780608
 ; GENERAL INFORMATION:
 ; APPLICANT: Hakamata, Yasuhiro
 ; APPLICANT: Nishimura, Seichiro
 ; APPLICANT: Barsoumian, Edward Leon
 ; TITLE OF INVENTION: Human Type 3 Ryanodine Receptor Protein
 ; FILE REFERENCE: 0652.2000000
 ; CURRENT APPLICATION NUMBER: US/09/424,783
 ; CURRENT FILING DATE: 1999-12-01
 ; PRIOR APPLICATION NUMBER: PCT/EP98/02926
 ; PRIOR FILING DATE: 1998-05-18
 ; PRIOR APPLICATION NUMBER: DE 197 22 317.6
 ; PRIOR FILING DATE: 1997-05-28
 ; NUMBER OF SEQ ID NOS: 11
 ; SOFTWARE: PatentIn version 3.1
 ; SEQ ID NO 2
 ; LENGTH: 4866
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens
 ; US-09-424-783-2

Query Match 72.7%; Score 32; DB 2; Length 4866;
 Best Local Similarity 77.8%; Pred. No. 2e+03;

Matches 7; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 QLLRREV 9
 Db 2484 QLLRRLVF 2492

RESULT 28

US-09-424-783-3
 ; Sequence 3, Application US/09424783
 ; Patent No. 6780608
 ; GENERAL INFORMATION:
 ; APPLICANT: Hakamata, Yasuhiro
 ; APPLICANT: Nishimura, Seichiro
 ; APPLICANT: Barsoumian, Edward Leon
 ; TITLE OF INVENTION: Human Type 3 Ryanodine Receptor Protein
 ; FILE REFERENCE: 0652.2000000
 ; CURRENT APPLICATION NUMBER: US/09/424,783
 ; CURRENT FILING DATE: 1999-12-01
 ; PRIOR APPLICATION NUMBER: PCT/EP98/02926
 ; PRIOR FILING DATE: 1998-05-18
 ; PRIOR APPLICATION NUMBER: DE 197 22 317.6
 ; PRIOR FILING DATE: 1997-05-28
 ; NUMBER OF SEQ ID NOS: 11
 ; SOFTWARE: PatentIn version 3.1
 ; SEQ ID NO 3
 ; LENGTH: 4872
 ; TYPE: PRT
 ; ORGANISM: Oryctolagus cuniculus
 ; US-09-424-783-3

Query Match 72.7%; Score 32; DB 2; Length 4872;
 Best Local Similarity 77.8%; Pred. No. 2e+03;

Matches 7; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 QLLRREV 9
 Db 2486 QLLRRLVF 2494

RESULT 29

US-10-311-886-25
 ; Sequence 25, Application US/10311886
 ; Patent No. 6936703
 ; GENERAL INFORMATION:
 ; APPLICANT: K.U. LEUVEN Research and Development et al.
 ; TITLE OF INVENTION: Biocatalyst inhibitors
 ; FILE REFERENCE: PCT/BE 01/00106
 ; CURRENT APPLICATION NUMBER: US/10/311,886
 ; CURRENT FILING DATE: 2002-12-23
 ; NUMBER OF SEQ ID NOS: 45
 ; SOFTWARE: PatentIn version 3.0
 ; SEQ ID NO 25
 ; LENGTH: 102
 ; TYPE: PRT
 ; ORGANISM: Secale cereale
 ; FEATURE:
 ; NAME/KEY: PEPTIDE
 ; LOCATION: (1)-(102)
 ; OTHER INFORMATION: part of a xylanase inhibitor encoded by SEQ ID NO 23
 ; US-10-311-886-25

Query Match 70.5%; Score 31; DB 2; Length 102;
 Best Local Similarity 85.7%; Pred. No. 78;

Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 3 LLRRDVF 9
 Db 56 LLRRDVF 62

RESULT 30

US-10-311-886-11
 ; Sequence 11, Application US/10311886
 ; Patent No. 6936703
 ; GENERAL INFORMATION:
 ; APPLICANT: K.U. LEUVEN Research and Development et al.
 ; TITLE OF INVENTION: Biocatalyst inhibitors
 ; FILE REFERENCE: PCT/BE 01/00106
 ; CURRENT APPLICATION NUMBER: US/10/311,886
 ; CURRENT FILING DATE: 2002-12-23
 ; NUMBER OF SEQ ID NOS: 45
 ; SOFTWARE: PatentIn version 3.0
 ; SEQ ID NO 11
 ; LENGTH: 185
 ; TYPE: PRT
 ; ORGANISM: Hordeum vulgare
 ; FEATURE:
 ; NAME/KEY: PEPTIDE
 ; LOCATION: (1)-(185)
 ; OTHER INFORMATION: part of a xylanase inhibitor, a HXVI variant,
 ; OTHER INFORMATION: wherein the first Xaa is unknown and the second Xaa is unknown
 ; OTHER INFORMATION: (derived from an EST-sequence)
 ; FEATURE:
 ; NAME/KEY: MISC FEATURE
 ; LOCATION: (72)-(72)
 ; OTHER INFORMATION: unknown
 ; FEATURE:
 ; NAME/KEY: MISC FEATURE
 ; LOCATION: (185)-(185)
 ; OTHER INFORMATION: unknown
 ; US-10-311-886-11

Query Match 70.5%; Score 31; DB 2; Length 185;
 Best Local Similarity 85.7%; Pred. No. 1.4e+02;

Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 3 LLRRDVF 9
 Db 102 LLRRDVF 108

RESULT 31

```
US-10-311-886-12
; Sequence 12, Application US/10311886
; Patent No. 6936703
; GENERAL INFORMATION:
; APPLICANT: K.U. LEUVEN Research and Development et al.
; TITLE OF INVENTION: Biocatalytic inhibitors
; FILE REFERENCE: PCT/BE 01/00106
; CURRENT APPLICATION NUMBER: US/10/311,886
; CURRENT FILING DATE: 2002-12-23
; NUMBER OF SEQ ID NOS: 45
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 12
; LENGTH: 185
; TYPE: PRT
; ORGANISM: Hordeum vulgare
; FEATURE:
; NAME/KEY: VARIANT
; LOCATION: (1)..(185)
; OTHER INFORMATION: variant of SEQ ID NO 11
; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (72)..(72)
; OTHER INFORMATION: unknown
; NAME/KEY: MISC FEATURE
; LOCATION: (128)..(128)
; OTHER INFORMATION: unknown, possibly one of the group Pro, Ala, Asp, Leu,
; OTHER INFORMATION: Gly, Asn and Cys
; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (132)..(132)
; OTHER INFORMATION: unknown, possibly one of the group Pro, Ala, Asp, Leu,
; OTHER INFORMATION: Gly, Asn and Cys
; FEATURE:

Query Match      70.5%; Score 31; DB 2; Length 185;
Best Local Similarity 85.7%; Pred. No. 1.4e+02;
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY      3 LRRREV 9
DB      102 LRRDLY 108

RESULT 32
US-10-311-886-13
; Sequence 13, Application US/10311886
; Patent No. 6936703
; GENERAL INFORMATION:
; APPLICANT: K.U. LEUVEN Research and Development et al.
; TITLE OF INVENTION: Biocatalytic inhibitors
; FILE REFERENCE: PCT/BE 01/00106
; CURRENT APPLICATION NUMBER: US/10/311,886
; CURRENT FILING DATE: 2002-12-23
; NUMBER OF SEQ ID NOS: 45
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 13
; LENGTH: 185
; TYPE: PRT
; ORGANISM: Hordeum vulgare
; FEATURE:
; NAME/KEY: VARIANT
; LOCATION: (1)..(185)
; OTHER INFORMATION: variant of SEQ ID NO 11
; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (72)..(72)
; OTHER INFORMATION: unknown
; NAME/KEY: MISC FEATURE
; LOCATION: (128)..(128)
; OTHER INFORMATION: unknown, possibly one of the group Pro, Ala, Asp, Leu,
; OTHER INFORMATION: Gly, Asn and Cys
; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (132)..(132)
; OTHER INFORMATION: unknown, possibly one of the group Pro, Ala, Asp, Leu,
; OTHER INFORMATION: Gly, Asn and Cys
; FEATURE:
```

```
NAME/KEY: MISC FEATURE
; LOCATION: (134)..(134)
; OTHER INFORMATION: unknown, possibly one of the group Pro, Ala, Asp, Leu,
; OTHER INFORMATION: Gly, Asn and Cys
; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (148)..(148)
; OTHER INFORMATION: unknown, possibly one of the group Pro, Ala, Asp, Leu,
; OTHER INFORMATION: Gly, Asn and Cys
; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (185)..(185)
; OTHER INFORMATION: unknown
US-10-311-886-13

Query Match      70.5%; Score 31; DB 2; Length 185;
Best Local Similarity 85.7%; Pred. No. 1.4e+02;
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY      3 LRRREV 9
DB      102 LRRDLY 108

RESULT 33
US-08-861-774E-42
; Sequence 42, Application US/08861774E
; Patent No. 6297007
; GENERAL INFORMATION:
; APPLICANT: Waters, Barbara
; APPLICANT: Miao, Vivian
; APPLICANT: Ho, Yap
; APPLICANT: Tong, Seow
; TITLE OF INVENTION: METHOD FOR ISOLATION OF BIOSYNTHESIS GENES FOR
; FILE REFERENCE: 9993-006
; CURRENT APPLICATION NUMBER: US/08/861,774E
; CURRENT FILING DATE: 1997-05-22
; NUMBER OF SEQ ID NOS: 94
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 42
; LENGTH: 212
; TYPE: PRT
; ORGANISM: Leptogium corniculatum
US-08-861-774E-42

Query Match      70.5%; Score 31; DB 2; Length 212;
Best Local Similarity 66.7%; Pred. No. 1.6e+02;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY      1 OQLRREV 9
DB      190 OORLOKEVY 198

RESULT 34
US-10-311-886-7
; Sequence 7, Application US/10311886
; Patent No. 6936703
; GENERAL INFORMATION:
; APPLICANT: K.U. LEUVEN Research and Development et al.
; TITLE OF INVENTION: Biocatalytic inhibitors
; FILE REFERENCE: PCT/BE 01/00106
; CURRENT APPLICATION NUMBER: US/10/311,886
; CURRENT FILING DATE: 2002-12-23
; NUMBER OF SEQ ID NOS: 45
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 7
; LENGTH: 381
; TYPE: PRT
; ORGANISM: Triticum aestivum
; FEATURE:
; NAME/KEY: PEPTIDE
```

```
LOCATION: (1)..(381)
OTHER INFORMATION: xylanase inhibitor, a TAXI I variant, wherein xaa is
FEATURE:
NAME/KEY: MISC FEATURE
LOCATION: (95)..(95)
OTHER INFORMATION: unknown, possibly Gly
FEATURE:
NAME/KEY: MISC FEATURE
LOCATION: (98)..(98)
OTHER INFORMATION: unknown, possibly Ser
FEATURE:
NAME/KEY: MISC FEATURE
LOCATION: (101)..(101)
OTHER INFORMATION: unknown, possibly Arg
FEATURE:
NAME/KEY: MISC FEATURE
LOCATION: (110)..(110)
OTHER INFORMATION: unknown, possibly Ser
FEATURE:
NAME/KEY: MISC FEATURE
LOCATION: (323)..(323)
OTHER INFORMATION: unknown, possibly Gln
US-10-311-886-7

Query Match 70.5%; Score 31; DB 2; Length 381;
Best Local Similarity 85.7%; Pred. No. 2.7e+02;
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 3 LLREVV 9
DB 242 LLRDDV 248

RESULT 35
US-10-311-886-8
Sequence 8, Application US/10311886
Patent No. 6936703
GENERAL INFORMATION:
APPLICANT: K.U. LEUVEN Research and Development et al.
TITLE OF INVENTION: Biocatalyst inhibitors
FILE REFERENCE: PCT/BE 01/00106
CURRENT APPLICATION NUMBER: US/10/311,886
CURRENT FILING DATE: 2002-12-23
NUMBER OF SEQ ID NOS: 45
SOFTWARE: PatentIn version 3.0
SEQ ID NO 8
LENGTH: 381
TYPE: PRT
ORGANISM: Triticum aestivum
FEATURE:
NAME/KEY: VARIANT
LOCATION: (1)..(381)
OTHER INFORMATION: variant of SEQ ID NO 7
FEATURE:
NAME/KEY: MISC FEATURE
LOCATION: (95)..(95)
OTHER INFORMATION: unknown, possibly Gly
FEATURE:
NAME/KEY: MISC FEATURE
LOCATION: (98)..(98)
OTHER INFORMATION: unknown, possibly Ser
FEATURE:
NAME/KEY: MISC FEATURE
LOCATION: (101)..(101)
OTHER INFORMATION: unknown, possibly Arg
FEATURE:
NAME/KEY: MISC FEATURE
LOCATION: (110)..(110)
OTHER INFORMATION: unknown, possibly Ser
LOCATION: (323)..(323)
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```
OTHER INFORMATION: unknown, possibly Gln
US-10-311-886-8

Query Match 70.5%; Score 31; DB 2; Length 381;
Best Local Similarity 85.7%; Pred. No. 2.7e+02;
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 3 LLREVV 9
DB 242 LLRDDV 248

RESULT 36
US-10-311-886-9
Sequence 9, Application US/10311886
Patent No. 6936703
GENERAL INFORMATION:
APPLICANT: K.U. LEUVEN Research and Development et al.
TITLE OF INVENTION: Biocatalyst inhibitors
FILE REFERENCE: PCT/BE 01/00106
CURRENT APPLICATION NUMBER: US/10/311,886
CURRENT FILING DATE: 2002-12-23
NUMBER OF SEQ ID NOS: 45
SOFTWARE: PatentIn version 3.0
SEQ ID NO 9
LENGTH: 381
TYPE: PRT
ORGANISM: Triticum aestivum
FEATURE:
NAME/KEY: VARIANT
LOCATION: (1)..(381)
OTHER INFORMATION: variant of SEQ ID NO 7
FEATURE:
NAME/KEY: MISC FEATURE
LOCATION: (95)..(95)
OTHER INFORMATION: unknown, possibly Gly
FEATURE:
NAME/KEY: MISC FEATURE
LOCATION: (98)..(98)
OTHER INFORMATION: unknown, possibly Ser
FEATURE:
NAME/KEY: MISC FEATURE
LOCATION: (145)..(145)
OTHER INFORMATION: unknown, possibly one of the group Asp, Asn, Val, Leu, Ser,
Phe, Pro, Ala and Cys
FEATURE:
NAME/KEY: MISC FEATURE
LOCATION: (183)..(183)
OTHER INFORMATION: unknown, possibly one of the group Asp, Asn, Val, Leu, Ser,
Phe, Pro, Ala and Cys
FEATURE:
NAME/KEY: MISC FEATURE
LOCATION: (212)..(212)
OTHER INFORMATION: unknown, possibly one of the group Asp, Asn, Val, Leu, Ser,
Phe, Pro, Ala and Cys
FEATURE:
NAME/KEY: MISC FEATURE
LOCATION: (275)..(275)
OTHER INFORMATION: unknown, possibly one of the group Asp, Asn, Val, Leu, Ser,
Phe, Pro, Ala and Cys
FEATURE:
NAME/KEY: MISC FEATURE
LOCATION: (282)..(282)
OTHER INFORMATION: unknown, possibly one of the group Asp, Asn, Val, Leu, Ser,
Phe, Pro, Ala and Cys
```

FEATURE:
NAME/KEY: MISC FEATURE
LOCATION: (323) (323)
OTHER INFORMATION: unknown, possibly Gln
US-10-311-886-9

Query Match 70.5%; Score 31; DB 2; Length 381;
Best Local Similarity 85.7%; Pred. No. 2.7e+02;
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 3 LRRREV 9
DB 242 LRRDLY 248

RESULT 37
US-08-132-990A-4
Sequence 4, Application US/08132990A
Patent No. 5834589

GENERAL INFORMATION:
APPLICANT: MERUELO, DANIEL
APPLICANT: YOSHIMOTO, TAKAYUKI
TITLE OF INVENTION: Human Retrovirus Receptor and DNA Coding Therefor
NUMBER OF SEQUENCES: 31
CORRESPONDENCE ADDRESS:
ADDRESSEE: Pennie & Edmonds
STREET: 1155 Avenue of the Americas
CITY: New York
STATE: NY
COUNTRY: USA
ZIP: 10036

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.24
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/132,990A
FILING DATE: 07-OCT-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/084,729
FILING DATE: 29-JUN-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/US93/05569
FILING DATE: 11-JUN-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/899,075
FILING DATE: 11-JUN-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/806,178
FILING DATE: 13-DEC-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/627,950
FILING DATE: 14-DEC-1990
ATTORNEY/AGENT INFORMATION:
NAME: Mirock, S. Leslie
REGISTRATION NUMBER: 18,872
REFERENCE/DOCKET NUMBER: 8105-004-999
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 790-9090
TELEFAX: (212) 869-8864
TELEX: 66441 PENNIE

INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 622 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-132-990A-4

Query Match 70.5%; Score 31; DB 1; Length 622;
Best Local Similarity 75.0%; Pred. No. 4.4e+02;

Matches 6; Conservative 2; Mismatches 0; Indels 0; Gaps 0;
QY 1 QQLRRRV 8
DB 11 QQLRRRV 18

RESULT 38
PCT-US92-09382-4
Sequence 4, Application PC/TUS9209382

GENERAL INFORMATION:
APPLICANT: MERUELO, DANIEL
APPLICANT: YOSHIMOTO, TAKAYUKI
TITLE OF INVENTION: Human Retrovirus Receptor and DNA Coding Therefor
NUMBER OF SEQUENCES: 8
CORRESPONDENCE ADDRESS:
ADDRESSEE: Browdy and Neimark
STREET: 419 Seventh Street, N.W.
CITY: Washington
STATE: DC
COUNTRY: USA
ZIP: 20004

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.24
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US92/09382
FILING DATE: 19921213
CLASSIFICATION:

ATTORNEY/AGENT INFORMATION:
NAME: Lynam, Shmuel
REGISTRATION NUMBER: 33,949
REFERENCE/DOCKET NUMBER: MERUELO-1
TELECOMMUNICATION INFORMATION:
TELEPHONE: 202 628-5197
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 622 amino acids
TYPE: AMINO ACID
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
PCT-US92-09382-4

Query Match 70.5%; Score 31; DB 4; Length 622;
Best Local Similarity 75.0%; Pred. No. 4.4e+02;
Matches 6; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 1 QQLRRRV 8
DB 11 QQLRRRV 18

RESULT 39
US-08-132-990A-8
Sequence 8, Application US/08132990A
Patent No. 5834589

GENERAL INFORMATION:
APPLICANT: MERUELO, DANIEL
APPLICANT: YOSHIMOTO, TAKAYUKI
TITLE OF INVENTION: Human Retrovirus Receptor and DNA Coding Therefor
NUMBER OF SEQUENCES: 31
CORRESPONDENCE ADDRESS:
ADDRESSEE: Pennie & Edmonds
STREET: 1155 Avenue of the Americas
CITY: New York
STATE: NY
COUNTRY: USA
ZIP: 10036

Query Match 70.5%; Score 31; DB 1; Length 622;
Best Local Similarity 75.0%; Pred. No. 4.4e+02;
COMPUTER READABLE FORM:

MEDIUM TYPE: floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent in Release #1.24
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/132,990A
FILING DATE: 07-OCT-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/084,729
FILING DATE: 29-JUN-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/US93/05569
FILING DATE: 11-JUN-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/899,075
FILING DATE: 11-JUN-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/806,178
FILING DATE: 13-DEC-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/627,950
FILING DATE: 14-DEC-1990
ATTORNEY/AGENT INFORMATION:
NAME: Miarock, S. Leelle
REGISTRATION NUMBER: 18,872
REFERENCE/DOCKET NUMBER: 8105-004-999
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 790-9090
TELEFAX: (212) 869-8864
INFORMATION FOR SEQ ID NO: 8:
SEQUENCE CHARACTERISTICS:
LENGTH: 629 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-132-990A-8

Query Match 70.5%; Score 31; DB 1; Length 629;
Best Local Similarity 75.0%; Pred. No. 4.4e+02;
Matches 6; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 1 QOLLRREV 8
||:||||:
Db 11 QOMLRKV 18

RESULT 40
PCT-US92-09382-8
Sequence 8, Application PC/TUS9209382
GENERAL INFORMATION:
APPLICANT: MERDELO, DANIEL
APPLICANT: YOSHIMOTO, TAKAYUKI
TITLE OF INVENTION: Human Retrovirus Receptor and DNA Coding
TITLE OF INVENTION: Therefor
NUMBER OF SEQUENCES: 8
CORRESPONDENCE ADDRESS:
ADDRESSEE: Browdy and Neimark
STREET: 419 Seventh Street, N.W.
CITY: Washington
STATE: DC
COUNTRY: USA
ZIP: 20004
COMPUTER READABLE FORM:
MEDIUM TYPE: floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent in Release #1.24
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US92/09382
FILING DATE: 19921213
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:

NAME: Livan, Shmuel
REGISTRATION NUMBER: 33,949
REFERENCE/DOCKET NUMBER: MERDELO=1
TELECOMMUNICATION INFORMATION:
TELEPHONE: 202 628-5197
INFORMATION FOR SEQ ID NO: 8:
SEQUENCE CHARACTERISTICS:
LENGTH: 629 amino acids
TYPE: AMINO ACID
TOPOLOGY: linear
MOLECULE TYPE: protein
PCT-US92-09382-8

Query Match 70.5%; Score 31; DB 4; Length 629;
Best Local Similarity 75.0%; Pred. No. 4.4e+02;
Matches 6; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 1 QOLLRREV 8
||:||||:
Db 11 QOMLRKV 18

RESULT 41
US-09-949-016-9507
Sequence 9507, Application US/09949016
Patent No. 6812339
GENERAL INFORMATION:
APPLICANT: VENTER, J. Craig et al.
TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
FILE REFERENCE: CLO01307
CURRENT APPLICATION NUMBER: US/09/949,016
PRIOR FILING DATE: 2000-04-14
PRIOR APPLICATION NUMBER: 60/241,755
PRIOR FILING DATE: 2000-10-20
PRIOR APPLICATION NUMBER: 60/237,768
PRIOR FILING DATE: 2000-10-03
PRIOR APPLICATION NUMBER: 60/231,498
NUMBER OF SEQ ID NOS: 207012
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 9507
LENGTH: 644
TYPE: PRT
ORGANISM: Human
US-09-949-016-9507

Query Match 70.5%; Score 31; DB 2; Length 644;
Best Local Similarity 75.0%; Pred. No. 4.5e+02;
Matches 6; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 1 QOLLRREV 8
||:||||:
Db 26 QOMLRKV 33

RESULT 42
US-09-252-991A-28143
Sequence 28143, Application US/09252991A
Patent No. 6551795
GENERAL INFORMATION:
APPLICANT: Marc J. Rubenfield et al.
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
FILE REFERENCE: 107196.136
CURRENT APPLICATION NUMBER: US/09/252,991A
PRIOR FILING DATE: 1999-02-18
PRIOR APPLICATION NUMBER: US 60/074,788
PRIOR FILING DATE: 1998-02-18
PRIOR APPLICATION NUMBER: US 60/094,190
PRIOR FILING DATE: 1998-07-27
NUMBER OF SEQ ID NOS: 33142
SEQ ID NO 28143

LENGTH: 1441
TYPE: PRT
ORGANISM: Pseudomonas aeruginosa
US-09-255-991A-28143

Query Match 70.5%; Score 31; DB 2; Length 1441;
Best Local Similarity 71.4%; Pred. No. 9.7e+02;
Matches 5; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 3 LRREVY 9
DB 304 LRREVY 310

RESULT 43
US-07-909-122-4
Sequence 4, Application US/07909122

GENERAL INFORMATION:
APPLICANT: SCHOLNIK, GARY K.
APPLICANT: PALERSKY, JOEL M.
TITLE OF INVENTION: DIAGNOSTIC PEPTIDES OF HUMAN PAPILLOMA
TITLE OF INVENTION: VIRUS
NUMBER OF SEQUENCES: 17
CORRESPONDENCE ADDRESS:
ADDRESSEE: MORRISON & FORSTER
STREET: 755 Page Mill Road
CITY: Palo Alto
STATE: California
COUNTRY: USA
ZIP: 94304-1018
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/07/909,122
FILING DATE: 19920706
CLASSIFICATION: 530
ATTORNEY/AGENT INFORMATION:
NAME: BENZ, WILLIAM H.
REGISTRATION NUMBER: 25,952
REFERENCE/DOCKET NUMBER: 28600-20105.01
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 813-5600
TELEFAX: (415) 494-0792
TELEX: 706141
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 14 amino acids
TYPE: AMINO ACID
STRANDEDNESS: single
TOPOLOGY: linear
US-07-909-122-4

Query Match 68.2%; Score 30; DB 1; Length 14;
Best Local Similarity 100.0%; Pred. No. 18;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 4 LRREVY 9
DB 1 LRREVY 6

RESULT 44
US-09-601-729-276
Sequence 276, Application US/09601729
Patent No. 6683052
GENERAL INFORMATION:
APPLICANT: THIAM, KADER
APPLICANT: AURIAULT, CLAUDE
APPLICANT: GRAS-MASSE, HELENE

APPLICANT: LOING, ESTELLE
APPLICANT: VERMAERDE, CLAUDE
APPLICANT: GUILLET, JEAN GERARD
TITLE OF INVENTION: LIPOPEPTIDES CONTAINING AN INTERFERON FRAGMENT AND USES
TITLE OF INVENTION: THEREOF IN PHARMACEUTICAL COMPOSITIONS
FILE REFERENCE: USB-97-AU-IN
CURRENT APPLICATION NUMBER: US/09/601,729
CURRENT FILING DATE: 2000-11-20
PRIOR APPLICATION NUMBER: PCT/FR99/00259
PRIOR FILING DATE: 1999-02-05
PRIOR APPLICATION NUMBER: 98 01439
PRIOR FILING DATE: 1998-02-06
NUMBER OF SEQ ID NOS: 281
SOFTWARE: Patentin Ver. 2.1
SEQ ID NO 276
LENGTH: 23
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Synthetic
US-09-601-729-276

Query Match 68.2%; Score 30; DB 2; Length 23;
Best Local Similarity 100.0%; Pred. No. 30;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 4 LRREVY 9
DB 1 LRREVY 6

RESULT 45
US-09-265-585C-98
Sequence 98, Application US/09265585C
Patent No. 6809234
GENERAL INFORMATION:
APPLICANT: Bentley, Phillip N.
APPLICANT: Di Laurenzio, Laura
APPLICANT: Wyszoka-Diller, Joanna
APPLICANT: Malamy, Jocelyn E.
APPLICANT: Pyeb, Leonard
APPLICANT: Helariutta, Yrjo
APPLICANT: Bruce, Wesley
APPLICANT: Lim, Jun
TITLE OF INVENTION: Scarecrow Gene, Promoter and Uses Thereof
FILE REFERENCE: 5914-066
CURRENT APPLICATION NUMBER: US/09/265,585C
CURRENT FILING DATE: 1999-03-10
PRIOR APPLICATION NUMBER: 08/842,445
PRIOR FILING DATE: 1997-04-24
PRIOR APPLICATION NUMBER: 08/638,617
PRIOR FILING DATE: 1996-04-26
NUMBER OF SEQ ID NOS: 152
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 98
LENGTH: 147
TYPE: PRT
ORGANISM: Zea mays
US-09-265-585C-98

Query Match 68.2%; Score 30; DB 2; Length 147;
Best Local Similarity 75.0%; Pred. No. 1.7e+02;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 QQLRREV 8
DB 53 QQLSRREI 60

RESULT 46
US-09-489-039A-7430
Sequence 7430, Application US/09489039A

```
Patent No. 6610836
GENERAL INFORMATION:
APPLICANT: Gary Becton et. al
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO KLEBSIELLA
FILE REFERENCE: 2709.2004001
CURRENT APPLICATION NUMBER: US/09/489,039A
PRIOR FILING DATE: 2000-01-27
PRIOR APPLICATION NUMBER: US 60/117,747
NUMBER OF SEQ ID NOS: 1999-01-29
SEQ ID NO 7430
LENGTH: 196
TYPE: PRT
ORGANISM: Klebsiella pneumoniae
US-09-489-039A-7430
```

```
Query Match      68.2% Score 30; DB 2; Length 196;
Best Local Similarity 75.0%; Pred. No. 2.3e+02;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
```

```
QY      2 QQLRRREV 9
      |||||
Db      184 QMLRRREV 191
```

```
RESULT 47
US-09-265-585C-101
Sequence 101, Application US/09265585C
Patent No. 6809234
GENERAL INFORMATION:
APPLICANT: Benfey, Phillip N.
APPLICANT: Di Laurentio, Laura
APPLICANT: Wysocka-Diller, Joanna
APPLICANT: Malamy, Jocelyn E.
APPLICANT: Pysh, Leonard
APPLICANT: Helariutta, Yrjo
APPLICANT: Bruce, Wesley
APPLICANT: Lim, Jun
TITLE OF INVENTION: Scarecrow Gene, Promoter and Uses Thereof
FILE REFERENCE: 5914-066
CURRENT APPLICATION NUMBER: US/09/265,585C
CURRENT FILING DATE: 1999-03-10
PRIOR APPLICATION NUMBER: 08/842,445
PRIOR FILING DATE: 1997-04-24
PRIOR APPLICATION NUMBER: 08/638,617
PRIOR FILING DATE: 1996-04-26
NUMBER OF SEQ ID NOS: 152
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 101
LENGTH: 295
TYPE: PRT
ORGANISM: Zea mays
US-09-265-585C-101
```

```
Query Match      68.2% Score 30; DB 2; Length 295;
Best Local Similarity 75.0%; Pred. No. 3.3e+02;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
```

```
QY      1 QQLRRREV 8
      |||||
Db      201 QQLRRREV 208
```

```
RESULT 48
US-09-710-279-586
Sequence 586, Application US/09710279
Patent No. 6703492
GENERAL INFORMATION:
APPLICANT: KIMMERLY, WILLIAM JOHN
TITLE OF INVENTION: STAPHYLOCOCCUS EPIDERMIDIS NUCLEIC ACIDS AND PROTEINS
FILE REFERENCE: PU3480US
CURRENT APPLICATION NUMBER: US/09/710,279
```

```
CURRENT FILING DATE: 2000-11-09
PRIOR APPLICATION NUMBER: 60/164,258
PRIOR FILING DATE: 1999-11-09
NUMBER OF SEQ ID NOS: 4472
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 586
LENGTH: 322
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURES:
OTHER INFORMATION: Description of Artificial Sequence: synthetic
US-09-710-279-586
```

```
Query Match      68.2% Score 30; DB 2; Length 322;
Best Local Similarity 75.0%; Pred. No. 3.6e+02;
Matches 6; Conservative 2; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 QQLRRREV 8
      |||||
Db      288 QRLRRREV 295
```

```
RESULT 49
US-09-710-279-984
Sequence 984, Application US/09710279
Patent No. 6703492
GENERAL INFORMATION:
APPLICANT: KIMMERLY, WILLIAM JOHN
TITLE OF INVENTION: STAPHYLOCOCCUS EPIDERMIDIS NUCLEIC ACIDS AND PROTEINS
FILE REFERENCE: PU3480US
CURRENT APPLICATION NUMBER: US/09/710,279
CURRENT FILING DATE: 2000-11-09
PRIOR APPLICATION NUMBER: 60/164,258
PRIOR FILING DATE: 1999-11-09
NUMBER OF SEQ ID NOS: 4472
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 984
LENGTH: 322
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURES:
OTHER INFORMATION: Description of Artificial Sequence: synthetic
US-09-710-279-984
```

```
Query Match      68.2% Score 30; DB 2; Length 322;
Best Local Similarity 75.0%; Pred. No. 3.6e+02;
Matches 6; Conservative 2; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 QQLRRREV 8
      |||||
Db      288 QRLRRREV 295
```

```
RESULT 50
US-09-134-001C-3477
Sequence 3477, Application US/09134001C
Patent No. 6380370
GENERAL INFORMATION:
APPLICANT: Lynn Doucette-Stamm et al
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO STAPHYLOCOCCUS
FILE REFERENCE: GTC-007
CURRENT APPLICATION NUMBER: US/09/134,001C
CURRENT FILING DATE: 1998-08-13
PRIOR APPLICATION NUMBER: US 60/064,964
PRIOR FILING DATE: 1997-11-08
PRIOR APPLICATION NUMBER: US 60/055,779
PRIOR FILING DATE: 1997-08-14
NUMBER OF SEQ ID NOS: 5674
SEQ ID NO 3477
LENGTH: 327
```

TYPE: PRT
ORGANISM: Staphylococcus epidermidis
US-09-134-001C-3477

Query Match 68.2%; Score 30; DB 2; Length 327;
Best Local Similarity 75.0%; Pred. No. 3.7e+02;
Matches 6; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 1 OQLRRRV 8
|:|:|:|
Db 293 OQLRRRV 300

Search completed: May 5, 2006, 02:25:26
Job time : 25.8 secs

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GenCore version 5.1.7
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OM protein - protein search, using SW model

Run on: May 5, 2006, 07:44:45 ; Search time 55.9 Seconds
(without alignments)
67.271 Million cell updates/sec

Title: US-08-170-344-43
Perfect score: 44
Sequence: 1 QQLRREYV 9

Scoring table: BIOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1867569 seqs, 41782326 residues

Total number of hits satisfying chosen parameters: 1867569

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 1000 summaries

Database : Published Applications_AA_Main:*
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2: /cgn2_6/ptodata/1/pubpaa/US08_PUBCOMB.pep:*
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6: /cgn2_6/ptodata/1/pubpaa/US11_PUBCOMB.pep:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	44	100.0	9	4	US-10-239-313A-525
2	44	100.0	15	4	US-10-476-570-25
3	44	100.0	15	4	US-10-476-570-28
4	44	100.0	21	4	US-10-476-570-10
5	44	100.0	151	4	US-10-177-390-6
6	44	100.0	151	5	US-10-484-063-20
7	44	100.0	151	5	US-10-484-063-27
8	44	100.0	158	5	US-10-858-384-2
9	44	100.0	158	5	US-10-367-057-16
10	44	100.0	158	6	US-11-021-949-13
11	44	100.0	171	4	US-10-472-724-2
12	44	100.0	243	6	US-11-072-288-1
13	44	100.0	266	3	US-09-367-309A-1
14	44	100.0	273	4	US-10-000-903-4
15	44	100.0	273	5	US-10-899-771-4
16	44	100.0	292	4	US-10-000-903-10
17	44	100.0	292	5	US-10-899-771-10
18	44	100.0	371	4	US-10-000-903-6
19	44	100.0	371	5	US-10-899-771-6
20	44	100.0	390	4	US-10-000-903-14
21	44	100.0	390	5	US-10-899-771-14
22	44	100.0	536	4	US-10-367-095-10
23	44	100.0	536	4	US-10-368-046-10
24	44	100.0	536	4	US-10-367-367-10
25	44	100.0	536	5	US-10-918-337-10
26	39	88.6	15	5	US-10-484-063-4
27	34	77.3	9	5	US-10-751-845-82

28	34	77.3	23	4	US-10-476-570-27	Sequence 27, Appl
29	34	77.3	24	5	US-10-751-845-65	Sequence 65, Appl
30	34	77.3	117	5	US-10-751-845-126	Sequence 126, Appl
31	34	77.3	236	5	US-10-751-845-157	Sequence 157, Appl
32	34	77.3	237	5	US-10-751-845-158	Sequence 158, Appl
33	34	77.3	261	5	US-10-751-845-160	Sequence 160, Appl
34	34	77.3	337	4	US-10-425-114-50845	Sequence 50845, A
35	34	77.3	363	4	US-10-425-114-69344	Sequence 69344, A
36	34	77.3	823	6	US-11-097-143-35811	Sequence 35811, A
37	33	75.0	77	4	US-10-424-599-242846	Sequence 242846, A
38	33	75.0	87	4	US-10-424-599-155399	Sequence 155399, A
39	33	75.0	122	4	US-10-424-599-228526	Sequence 228526, A
40	33	75.0	231	4	US-10-424-599-262641	Sequence 262641, A
41	33	75.0	1506	4	US-10-754-115-49	Sequence 49, Appl
42	33	75.0	1506	6	US-11-020-848-2	Sequence 2, Appl
43	32	72.7	34	4	US-10-424-599-269879	Sequence 269879, A
44	32	72.7	48	4	US-10-425-115-252206	Sequence 252206, A
45	32	72.7	59	4	US-10-425-115-331363	Sequence 331363, A
46	32	72.7	100	4	US-10-425-115-251808	Sequence 251808, A
47	32	72.7	105	4	US-10-437-963-170284	Sequence 170284, A
48	32	72.7	164	4	US-10-425-114-68311	Sequence 68311, A
49	32	72.7	171	4	US-10-425-114-71647	Sequence 71647, A
50	32	72.7	419	4	US-10-424-599-153165	Sequence 153165, A
51	32	72.7	458	4	US-10-282-122A-48845	Sequence 48845, A
52	32	72.7	610	4	US-10-282-122A-66348	Sequence 66348, A
53	32	72.7	861	3	US-09-815-242-11152	Sequence 11152, A
54	32	72.7	861	4	US-10-282-122A-58353	Sequence 58353, A
55	32	72.7	1191	6	US-11-097-143-11412	Sequence 11412, A
56	32	72.7	3275	5	US-10-732-923-18448	Sequence 18448, A
57	32	72.7	3275	6	US-10-840-060-90	Sequence 90, Appl
58	32	72.7	3276	5	US-11-097-143-38103	Sequence 38103, A
59	32	72.7	4870	5	US-10-732-923-18447	Sequence 18447, A
60	32	72.7	4870	4	US-10-764-425-144	Sequence 144, Appl
61	32	72.7	4899	5	US-10-450-763-42673	Sequence 42673, A
62	32	72.7	4934	5	US-10-450-763-53705	Sequence 53705, A
63	31	70.5	99	5	US-10-508-622-28	Sequence 28, Appl
64	31	70.5	102	4	US-10-311-886-25	Sequence 25, Appl
65	31	70.5	116	4	US-10-029-29826, A	Sequence 29826, A
66	31	70.5	148	6	US-11-021-949-17	Sequence 17, Appl
67	31	70.5	185	4	US-10-311-886-11	Sequence 11, Appl
68	31	70.5	185	4	US-10-311-886-12	Sequence 12, Appl
69	31	70.5	185	4	US-10-311-886-13	Sequence 13, Appl
70	31	70.5	191	4	US-10-437-963-162363	Sequence 162363, A
71	31	70.5	212	3	US-09-924-266A-42	Sequence 42, Appl
72	31	70.5	212	4	US-10-225-066A-950	Sequence 950, Appl
73	31	70.5	212	5	US-10-374-780A-2804	Sequence 2804, Appl
74	31	70.5	212	5	US-10-225-066A-950	Sequence 950, Appl
75	31	70.5	340	4	US-10-282-122A-61189	Sequence 61189, A
76	31	70.5	373	5	US-10-501-282-1182	Sequence 1182, Appl
77	31	70.5	381	4	US-10-311-886-7	Sequence 7, Appl
78	31	70.5	381	4	US-10-311-886-8	Sequence 8, Appl
79	31	70.5	381	4	US-10-311-886-9	Sequence 9, Appl
80	31	70.5	470	4	US-10-149-310-160	Sequence 160, Appl
81	31	70.5	470	4	US-10-149-310-164	Sequence 164, Appl
82	31	70.5	470	4	US-10-149-310-168	Sequence 168, Appl
83	31	70.5	473	4	US-10-149-310-170	Sequence 170, Appl
84	31	70.5	475	4	US-10-282-122A-55427	Sequence 55427, A
85	31	70.5	557	6	US-11-097-143-41052	Sequence 41052, A
86	31	70.5	560	6	US-10-214-737-4	Sequence 4, Appl
87	31	70.5	560	6	US-11-033-527-2	Sequence 2, Appl
88	31	70.5	563	4	US-11-033-527-2	Sequence 2, Appl
89	31	70.5	563	6	US-10-833-951-52	Sequence 52, Appl
90	31	70.5	622	5	US-10-151-031-34	Sequence 34, Appl
91	31	70.5	629	4	US-10-295-027-1197	Sequence 1197, Appl
92	31	70.5	629	4	US-10-353-690-120	Sequence 120, Appl
93	31	70.5	629	4	US-10-295-027-1197	Sequence 1197, Appl
94	31	70.5	629	4	US-10-755-888-108	Sequence 108, Appl
95	31	70.5	629	4	US-10-369-493-11798	Sequence 11798, A
96	31	70.5	821	4	US-10-369-493-11798	Sequence 5038, Appl
97	31	70.5	974	4	US-10-732-923-8263	Sequence 8263, Appl
98	31	70.5	1038	5	US-10-732-923-12342	Sequence 12342, A
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103	30	68.2	48	4	US-10-424-539-270674	Sequence 270674, A	176	29	65.9	192	4	US-10-038-010-20	Sequence 20, Appl
104	30	68.2	54	3	US-09-864-761-47491	Sequence 47491, A	177	29	65.9	201	4	US-10-002-631C-242	Sequence 242, App
105	30	68.2	88	4	US-10-424-539-156282	Sequence 156282, A	178	29	65.9	209	4	US-10-437-963-154256	Sequence 154256, A
106	30	68.2	92	4	US-10-425-115-334749	Sequence 334749, A	179	29	65.9	218	4	US-10-425-114-50161	Sequence 50161, A
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108	30	68.2	104	4	US-10-425-115-336978	Sequence 336978, A	181	29	65.9	234	4	US-10-425-114-53561	Sequence 53561, A
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114	30	68.2	207	4	US-10-282-132A-59732	Sequence 59732, A	187	29	65.9	287	4	US-10-270-786-48	Sequence 48, Appl
115	30	68.2	273	4	US-10-424-539-149840	Sequence 149840, A	188	29	65.9	287	4	US-10-270-710-48	Sequence 48, Appl
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118	30	68.2	280	4	US-10-424-539-233463	Sequence 233463, A	191	29	65.9	307	4	US-10-425-115-235876	Sequence 235876, A
119	30	68.2	301	5	US-10-774-355A-2282	Sequence 2282, Ap	192	29	65.9	316	4	US-10-425-114-55782	Sequence 55782, A
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121	30	68.2	318	5	US-10-510-408-113	Sequence 113, App	194	29	65.9	329	4	US-10-380-196A-8	Sequence 8, Appl
122	30	68.2	327	4	US-10-724-972A-4427	Sequence 4427, Ap	195	29	65.9	341	4	US-10-767-701-40517	Sequence 40517, A
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128	30	68.2	414	4	US-10-425-115-266818	Sequence 266818, A	201	29	65.9	370	4	US-10-633-438-60	Sequence 60, Appl
129	30	68.2	437	4	US-10-424-539-260406	Sequence 260406, A	202	29	65.9	370	5	US-10-901-772-60	Sequence 60, Appl
130	30	68.2	450	4	US-10-282-122A-78407	Sequence 78407, A	203	29	65.9	370	6	US-11-026-435-3	Sequence 3, Appl
131	30	68.2	451	4	US-10-437-963-155980	Sequence 155980, A	204	29	65.9	377	4	US-10-289-762-654	Sequence 654, App
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138	30	68.2	875	4	US-10-408-765A-1566	Sequence 1566, Ap	211	29	65.9	413	3	US-09-951-622-12	Sequence 12, Appl
139	30	68.2	885	4	US-10-282-122A-51251	Sequence 51251, A	212	29	65.9	413	3	US-09-993-844-2	Sequence 2, Appl
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141	30	68.2	932	4	US-10-369-493-3499	Sequence 3499, Ap	214	29	65.9	413	3	US-09-922-694-13	Sequence 13, Appl
142	30	68.2	985	4	US-10-437-963-17673	Sequence 17673, A	215	29	65.9	413	3	US-09-952-680A-12	Sequence 12, Appl
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144	30	68.2	1062	6	US-11-034-275-20	Sequence 20, Appl	217	29	65.9	413	3	US-09-935-061-6	Sequence 6, Appl
145	30	68.2	1090	4	US-10-389-566-1670	Sequence 1670, Ap	218	29	65.9	413	3	US-09-935-061-8	Sequence 8, Appl
146	30	68.2	1407	5	US-10-733-923-3359	Sequence 3359, Ap	219	29	65.9	413	4	US-10-325-930-12	Sequence 12, Appl
147	30	68.2	1443	4	US-10-389-566-2057	Sequence 2057, Ap	220	29	65.9	413	4	US-10-225-676A-52	Sequence 52, Appl
148	30	68.2	1474	4	US-10-706-424-10	Sequence 45, Appl	221	29	65.9	413	4	US-10-309-515-24	Sequence 24, Appl
149	30	68.2	1474	4	US-10-754-115-45	Sequence 45, Appl	222	29	65.9	413	4	US-10-291-990-32	Sequence 32, Appl
150	30	68.2	1485	4	US-10-262-794A-32	Sequence 32, Appl	223	29	65.9	413	4	US-10-126-764-24	Sequence 24, Appl
151	30	68.2	1607	5	US-10-450-763-45458	Sequence 45458, A	224	29	65.9	413	4	US-10-380-196A-3	Sequence 3, Appl
152	30	68.2	1785	4	US-10-369-493-1930	Sequence 1930, Ap	225	29	65.9	413	4	US-10-692-071-6	Sequence 6, Appl
153	30	68.2	2296	5	US-10-952-915-27	Sequence 27, Appl	226	29	65.9	413	4	US-10-652-071-8	Sequence 8, Appl
154	29	65.9	34	3	US-09-864-761-41478	Sequence 41478, A	227	29	65.9	413	4	US-10-221-332A-2	Sequence 2, Appl
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156	29	65.9	68	3	US-09-925-298-598	Sequence 598, App	229	29	65.9	413	6	US-11-026-435-2	Sequence 2, Appl
157	29	65.9	68	3	US-10-102-806-598	Sequence 598, App	230	29	65.9	417	3	US-09-935-061-10	Sequence 10, Appl
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159	29	65.9	87	5	US-10-450-763-58042	Sequence 58042, A	232	29	65.9	423	4	US-10-318-661-9	Sequence 9, Appl
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161	29	65.9	110	4	US-10-424-539-248711	Sequence 248731, A	234	29	65.9	437	6	US-11-097-143-15138	Sequence 15138, A
162	29	65.9	112	4	US-10-424-539-239380	Sequence 239380, A	235	29	65.9	440	4	US-10-282-122A-50784	Sequence 50784, A
163	29	65.9	114	4	US-10-425-115-288886	Sequence 288896, A	236	29	65.9	445	4	US-10-282-122A-50784	Sequence 50784, A
164	29	65.9	123	4	US-10-437-963-176558	Sequence 176558, A	237	29	65.9	447	6	US-10-156-761-8082	Sequence 8082, Ap
165	29	65.9	125	4	US-10-425-115-204219	Sequence 45219, A	238	29	65.9	450	4	US-11-097-143-26730	Sequence 26730, A
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169	29	65.9	146	4	US-10-282-122A-50712	Sequence 50712, A	242	29	65.9	468	4	US-10-149-310-166	Sequence 166, App
170	29	65.9	146	6	US-10-450-763-41820	Sequence 41820, A	243	29	65.9	472	4	US-10-282-122A-55283	Sequence 55283, A
171	29	65.9	149	6	US-11-021-949-14	Sequence 14820, A	244	29	65.9	473	4	US-10-437-963-186053	Sequence 186053, A
172	29	65.9	156	4	US-10-283-122A-49597	Sequence 49597, A	245	29	65.9	482	4	US-10-425-115-208101	Sequence 208101, A
173	29	65.9	156	4	US-10-282-122A-51448	Sequence 51448, A	246	29	65.9	488	4	US-10-425-115-324281	Sequence 324281, A

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249	29	65.9	518	4	US-10-425-114-59128	Sequence 59128, A	322	28	63.6	174	6	US-11-097-143-16688	Sequence 16688, A
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251	29	65.9	551	4	US-10-282-122A-69298	Sequence 69298, A	324	28	63.6	177	3	US-09-864-761-45292	Sequence 45292, A
252	29	65.9	555	4	US-10-352-843-8	Sequence 8, Appl1	325	28	63.6	185	6	US-11-097-143-10284	Sequence 40284, A
253	29	65.9	555	4	US-10-470-726-3	Sequence 3, Appl1	326	28	63.6	186	4	US-10-425-115-261540	Sequence 261540, A
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259	29	65.9	659	4	US-10-437-963-133069	Sequence 133069, A	332	28	63.6	219	4	US-10-282-122A-45399	Sequence 45399, A
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263	29	65.9	759	4	US-10-437-963-150198	Sequence 150198, A	336	28	63.6	227	4	US-10-437-963-199627	Sequence 199627, A
264	29	65.9	804	6	US-11-097-143-8280	Sequence 8280, Ap	337	28	63.6	239	4	US-10-424-599-271125	Sequence 271125, A
265	29	65.9	861	6	US-11-097-143-1134	Sequence 52, Appl	338	28	63.6	243	4	US-10-424-599-271125	Sequence 271125, A
266	29	65.9	861	6	US-10-282-122A-47504	Sequence 47504, A	339	28	63.6	247	4	US-10-424-599-271125	Sequence 271125, A
267	29	65.9	864	4	US-10-437-963-175646	Sequence 175646, A	340	28	63.6	250	4	US-10-424-599-155693	Sequence 155693, A
268	29	65.9	950	4	US-10-450-763-46310	Sequence 46310, A	341	28	63.6	251	4	US-10-310-154-707	Sequence 707, Ap
269	29	65.9	1033	5	US-10-450-763-59294	Sequence 59294, A	342	28	63.6	251	4	US-10-774-355A-2281	Sequence 2281, Ap
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271	29	65.9	1356	4	US-11-097-143-17550	Sequence 17550, A	344	28	63.6	251	5	US-10-732-923-22927	Sequence 22927, A
272	29	65.9	1383	6	US-10-437-963-135185	Sequence 135185, A	345	28	63.6	251	5	US-10-029-386-12003	Sequence 32003, A
273	29	65.9	1634	4	US-10-437-963-132922	Sequence 132922, A	346	28	63.6	253	4	US-10-425-114-58792	Sequence 58792, A
274	29	65.9	1926	4	US-10-437-963-110585	Sequence 110585, A	347	28	63.6	253	4	US-10-437-963-158121	Sequence 158121, A
275	29	65.9	2078	4	US-10-481-032A-418	Sequence 418, App	348	28	63.6	258	4	US-10-425-115-264144	Sequence 264144, A
276	29	65.9	2078	5	US-10-481-032A-570	Sequence 570, App	349	28	63.6	261	4	US-10-424-599-182884	Sequence 182884, A
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278	29	65.9	2531	5	US-10-732-923-18433	Sequence 18433, A	351	28	63.6	272	5	US-10-091-007-4	Sequence 4, Appl1
279	29	65.9	32	4	US-10-425-115-260749	Sequence 260749, A	352	28	63.6	273	4	US-10-282-122A-74779	Sequence 74779, A
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281	28	63.6	48	4	US-10-425-115-348354	Sequence 348354, A	354	28	63.6	274	5	US-10-437-963-104954	Sequence 104954, A
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286	28	63.6	65	4	US-10-425-115-301175	Sequence 301175, A	359	28	63.6	313	5	US-10-156-761-10611	Sequence 10611, A
287	28	63.6	65	4	US-10-425-115-301175	Sequence 53178, A	360	28	63.6	315	4	US-10-146-772-366	Sequence 366, App
288	28	63.6	71	4	US-10-425-115-36152	Sequence 36152, A	361	28	63.6	315	4	US-10-241-742-366	Sequence 366, App
289	28	63.6	71	4	US-10-767-701-36152	Sequence 36152, A	362	28	63.6	315	4	US-10-440-523-366	Sequence 366, App
290	28	63.6	76	4	US-10-437-963-105406	Sequence 105406, A	363	28	63.6	315	4	US-10-461-925-366	Sequence 366, App
291	28	63.6	78	4	US-10-437-963-160267	Sequence 160267, A	364	28	63.6	315	4	US-10-461-925-366	Sequence 366, App
292	28	63.6	79	4	US-10-443-552-911	Sequence 911, App	365	28	63.6	315	4	US-10-108-260A-4005	Sequence 4005, Ap
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294	28	63.6	80	4	US-10-001-876-179	Sequence 179, App	367	28	63.6	322	4	US-10-425-114-39201	Sequence 39201, A
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299	28	63.6	107	4	US-10-424-599-208251	Sequence 208251, A	372	28	63.6	334	4	US-10-425-115-204235	Sequence 45111, A
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303	28	63.6	122	4	US-10-424-599-228475	Sequence 228475, A	376	28	63.6	346	4	US-10-1229-541A-73	Sequence 12, Appl
304	28	63.6	123	4	US-10-424-599-186498	Sequence 186498, A	377	28	63.6	346	4	US-09-908-199-11	Sequence 31, Appl
305	28	63.6	127	4	US-10-424-599-176035	Sequence 176035, A	378	28	63.6	354	3	US-10-060-432-31	Sequence 158, App
306	28	63.6	133	4	US-10-437-963-160930	Sequence 160930, A	379	28	63.6	354	3	US-10-425-114-64921	Sequence 64921, A
307	28	63.6	134	4	US-10-767-701-42487	Sequence 42487, A	380	28	63.6	354	3	US-10-425-114-64921	Sequence 64780, A
308	28	63.6	137	4	US-10-425-115-218921	Sequence 218921, A	381	28	63.6	357	4	US-10-425-114-64780	Sequence 14, Appl
309	28	63.6	141	4	US-10-425-115-218921	Sequence 69637, A	382	28	63.6	360	3	US-10-424-599-208252	Sequence 208252, A
310	28	63.6	143	4	US-10-425-115-218921	Sequence 134600, A	383	28	63.6	361	4	US-10-424-599-251587	Sequence 251587, A
311	28	63.6	143	4	US-10-425-115-218921	Sequence 7403, Ap	384	28	63.6	368	4	US-10-425-114-54774	Sequence 54774, A
312	28	63.6	151	4	US-10-062-254-52	Sequence 31, Appl	385	28	63.6	371	4	US-10-282-122A-45987	Sequence 45987, A
313	28	63.6	152	5	US-10-739-930-7403	Sequence 141977, A	386	28	63.6	371	4	US-10-282-122A-46548	Sequence 46548, A
314	28	63.6	162	6	US-11-021-949-31	Sequence 1571, Ap	387	28	63.6	384	4	US-10-425-114-55810	Sequence 55810, A
315	28	63.6	163	4	US-10-437-963-141977	Sequence 23028, A	388	28	63.6				
316	28	63.6	166	4	US-10-276-774-1571	Sequence 4186, Ap	389	28	63.6				
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394	28	63.6	403	4	US-10-369-493-13004	Sequence 13004, A	467	28	63.6	652	5	US-10-820-155-117	Sequence 117, App
395	28	63.6	405	6	US-11-097-143-28950	Sequence 28950, A	468	28	63.6	677	4	US-10-369-493-9846	Sequence 846, Ap
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407	28	63.6	449	4	US-10-207-175-18	Sequence 18, Appl	480	28	63.6	744	4	US-10-336-631B-44	Sequence 44, Appl
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409	28	63.6	460	4	US-10-335-977-7112	Sequence 7112, Ap	482	28	63.6	744	4	US-10-336-631B-44	Sequence 44, Appl
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429	28	63.6	522	4	US-10-027-806-8	Sequence 8, Appl	502	28	63.6	744	4	US-10-336-631B-44	Sequence 44, Appl
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436	28	63.6	553	4	US-10-781-014-556	Sequence 556, App	509	28	63.6	744	4	US-10-336-631B-44	Sequence 44, Appl
437	28	63.6	557	4	US-10-781-014-554	Sequence 554, App	510	28	63.6	744	4	US-10-336-631B-44	Sequence 44, Appl
438	28	63.6	559	4	US-10-297-022-10	Sequence 10, Appl	511	28	63.6	744	4	US-10-336-631B-44	Sequence 44, Appl
439	28	63.6	559	5	US-10-733-923-6603	Sequence 6603, Ap	512	28	63.6	744	4	US-10-336-631B-44	Sequence 44, Appl
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447	28	63.6	608	4	US-10-411-910A-16	Sequence 16, Appl	520	28	63.6	744	4	US-10-336-631B-44	Sequence 44, Appl
448	28	63.6	617	4	US-10-282-122A-60246	Sequence 60246, A	521	28	63.6	744	4	US-10-336-631B-44	Sequence 44, Appl
449	28	63.6	619	4	US-10-425-114-37482	Sequence 37482, A	522	28	63.6	744	4	US-10-336-631B-44	Sequence 44, Appl
450	28	63.6	625	3	US-09-932-165-1506	Sequence 1506, Ap	523	28	63.6	744	4	US-10-336-631B-44	Sequence 44, Appl
451	28	63.6	625	3	US-09-932-165-1507	Sequence 1507, Ap	524	28	63.6	744	4	US-10-336-631B-44	Sequence 44, Appl
452	28	63.6	630	4	US-10-425-114-59376	Sequence 59376, A	525	28	63.6	744	4	US-10-336-631B-44	Sequence 44, Appl
453	28	63.6	645	4	US-10-029-386-33151	Sequence 33151, A	526	28	63.6	744	4	US-10-336-631B-44	Sequence 44, Appl
454	28	63.6	648	5	US-10-461-862-116	Sequence 116, App	527	28	63.6	744	4	US-10-336-631B-44	Sequence 44, Appl
455	28	63.6	648	5	US-10-461-862-118	Sequence 118, App	528	28	63.6	744	4	US-10-336-631B-44	Sequence 44, Appl
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558	28	63.6	1724	4	US-10-389-566-2159	Sequence 2159, Ap	631	27	61.4	109	4	US-10-320-786-30	Sequence 30, Appl
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561	28	63.6	1765	4	US-10-388-470-3	Sequence 3, Appl	634	27	61.4	111	4	US-10-800-834-369	Sequence 369, Ap
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568	28	63.6	1904	4	US-10-128-714-8237	Sequence 8237, Ap	641	27	61.4	115	4	US-10-320-786-24	Sequence 24, Appl
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578	28	63.6	2257	3	US-09-839-477-8	Sequence 8, Appl	651	27	61.4	125	4	US-10-501-282-3010	Sequence 3010, Ap
579	28	63.6	2257	4	US-10-758-064-8	Sequence 8, Appl	652	27	61.4	127	5	US-10-425-115-359000	Sequence 359000,
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587	28	63.6	2422	5	US-10-732-923-20641	Sequence 20641, A	660	27	61.4	135	4	US-10-094-749-2040	Sequence 2040, Ap
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589	28	63.6	3005	6	US-11-097-143-1098	Sequence 1098, Ap	662	27	61.4	136	4	US-10-425-115-359009	Sequence 359009,
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592	28	63.6	3005	6	US-11-097-143-1098	Sequence 1098, Ap	665	27	61.4	139	4	US-10-425-115-359007	Sequence 359007,
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594	28	63.6	3005	6	US-11-097-143-1098	Sequence 1098, Ap	667	27	61.4	142	4	US-10-767-701-46243	Sequence 46243, A
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596	28	63.6	3005	6	US-11-097-143-1098	Sequence 1098, Ap	669	27	61.4	144	4	US-10-424-599-11662	Sequence 11662,
597	28	63.6	3005	6	US-11-097-143-1098	Sequence 1098, Ap	670	27	61.4	144	4	US-10-424-599-281916	Sequence 281916,
598	28	63.6	3005	6	US-11-097-143-1098	Sequence 1098, Ap	671	27	61.4	145	4	US-10-424-599-281916	Sequence 281916,
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689	27	61.4	176	4	US-10-468-199-39	Sequence 39, App1	762	27	61.4	318	4	US-10-724-972A-5558	Sequence 5558, App
690	27	61.4	177	4	US-10-425-114-66066	Sequence 66066, A	763	27	61.4	320	5	US-10-756-149-5198	Sequence 5198, Ap
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704	27	61.4	209	5	US-10-721-922A-110	Sequence 110, App	777	27	61.4	331	6	US-11-097-143-36912	Sequence 36912, A
705	27	61.4	210	4	US-10-468-199-27	Sequence 27, App1	778	27	61.4	332	3	US-09-906-179A-63	Sequence 63, App1
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863	27	61.4	487	4	US-10-408-765A-1524	Sequence 1524, Ap	936	27	61.4	592	4	US-10-781-116-14	Sequence 14,	App1	
864	27	61.4	488	4	US-10-282-122A-58633	Sequence 58633, A	937	27	61.4	592	4	US-10-781-116-14	Sequence 14,	App1	
865	27	61.4	488	4	US-10-335-977-5640	Sequence 5640, Ap	938	27	61.4	594	4	US-10-437-963-18434	Sequence 177933, A		
866	27	61.4	490	6	US-11-097-143-36192	Sequence 36192, A	939	27	61.4	606	4	US-10-282-122A-77293	Sequence 3766, App		
867	27	61.4	491	4	US-10-425-115-253642	Sequence 253642,	940	27	61.4	609	6	US-11-097-143-3768	Sequence 3766, App		
868	27	61.4	495	5	US-10-732-923-23671	Sequence 23671, A	941	27	61.4	617	3	US-09-783-436-6	Sequence 6,	App1	
869	27	61.4	498	4	US-10-437-963-152823	Sequence 152823,	942	27	61.4	616	5	US-10-732-923-8168	Sequence 8168, App		
870	27	61.4	500	4	US-10-437-963-162703	Sequence 162703,	943	27	61.4	621	5	US-10-732-923-8168	Sequence 75,	App1	
871	27	61.4	500	6	US-11-097-143-3675	Sequence 3675, Ap	944	27	61.4	619	3	US-09-783-436-47	Sequence 47, App1		
872	27	61.4	508	5	US-10-916-598-34	Sequence 34, App1	945	27	61.4	620	4	US-10-156-761-13775	Sequence 13775,	A	
873	27	61.4	510	4	US-10-437-963-139204	Sequence 139204,	946	27	61.4	621	4	US-10-310-154-650	Sequence 650, App		
874	27	61.4	512	4	US-10-437-963-169528	Sequence 169528,	947	27	61.4	621	4	US-10-732-923-552	Sequence 552, App		
875	27	61.4	514	4	US-10-425-114-53835	Sequence 53835, A	948	27	61.4	621	5	US-10-767-701-45712	Sequence 45712, A		
876	27	61.4	516	4	US-10-437-963-180573	Sequence 180573,	949	27	61.4	625	4	US-10-128-714-3118	Sequence 3118, Ap		
877	27	61.4	517	6	US-11-097-143-10527	Sequence 10527, A	950	27	61.4	627	4	US-10-128-714-3118	Sequence 3118, Ap		
878	27	61.4	520	5	US-11-097-143-1118	Sequence 1118, Ap	951	27	61.4	631	6	US-11-097-143-3126	Sequence 3126, Ap		
879	27	61.4	521	3	US-09-925-297-474	Sequence 474, App	952	27	61.4	642	3	US-09-783-436-73	Sequence 73, App1		
880	27	61.4	522	5	US-10-739-930-10871	Sequence 10871, A	953	27	61.4	642	4	US-10-225-068A-752	Sequence 752, App		
881	27	61.4	527	4	US-09-930-218-16	Sequence 16, App1	954	27	61.4	642	4	US-10-374-780A-118	Sequence 118, App		
882	27	61.4	527	4	US-10-431-438-16	Sequence 16, App1	955	27	61.4	642	4	US-10-282-122A-65588	Sequence 65588, A		
883	27	61.4	527	4	US-10-282-122A-70395	Sequence 70395, A	956	27	61.4	642	5	US-10-225-068A-752	Sequence 752, App		
884	27	61.4	528	5	US-10-901-943-4	Sequence 4, App1	957	27	61.4	642	5	US-10-369-493-22317	Sequence 22317, A		
885	27	61.4	543	3	US-09-759-207-2	Sequence 2, App1	958	27	61.4	650	4	US-10-369-493-22318	Sequence 22318, A		
886	27	61.4	543	3	US-09-930-218-3	Sequence 3, App1	959	27	61.4	650	4	US-10-369-493-22318	Sequence 22318, A		
887	27	61.4	543	3	US-09-186-200-1	Sequence 1, App1	960	27	61.4	653	3	US-09-186-276B-2	Sequence 2,	App1	
888	27	61.4	543	3	US-09-776-874A-10	Sequence 10, App1	961	27	61.4	653	4	US-09-186-276B-2	Sequence 2,	App1	
889	27	61.4	543	3	US-09-944-602-2	Sequence 2, App1	962	27	61.4	653	4	US-10-253-007-2	Sequence 65,	App1	
890	27	61.4	543	3	US-09-322-977-2	Sequence 2, App1	963	27	61.4	658	3	US-09-927-827-65	Sequence 245070,		
891	27	61.4	543	3	US-09-988-113-10	Sequence 10, App1	964	27	61.4	658	4	US-10-425-115-245070	Sequence 245070,		
892	27	61.4	543	3	US-10-137-351-2	Sequence 2, App1	965	27	61.4	659	6	US-11-097-143-21381	Sequence 21381, A		
893	27	61.4	543	4	US-10-341-582-10	Sequence 10, App1	966	27	61.4	665	4	US-10-369-493-4436	Sequence 224009,		
894	27	61.4	543	4	US-10-384-451-10	Sequence 10, App1	967	27	61.4	669	4	US-10-424-599-224009	Sequence 635, App		
895	27	61.4	543	4	US-10-431-438-3	Sequence 3, App1	968	27	61.4	681	4	US-10-389-556-635	Sequence 16, App1		
896	27	61.4	543	4	US-10-368-044A-1	Sequence 1, App1	969	27	61.4	680	4	US-10-288-252-16	Sequence 2231, Ap		
897	27	61.4	543	4	US-10-384-450-10	Sequence 10, App1	970	27	61.4	690	4	US-10-094-749-7195	Sequence 7195, Ap		
898	27	61.4	543	4	US-10-371-218A-10	Sequence 10, App1	971	27	61.4	690	4	US-10-398-038-16	Sequence 16, App1		
899	27	61.4	543	4	US-10-456-573-10	Sequence 10, App1	972	27	61.4	692	5	US-10-976-440-16	Sequence 35839, A		
900	27	61.4	543	4	US-10-676-079-2	Sequence 2, App1	973	27	61.4	692	5	US-10-450-763-35839	Sequence 16, App1		
901	27	61.4	543	4	US-10-785-116-10	Sequence 10, App1	974	27	61.4	695	3	US-09-783-436-14	Sequence 14, App1		
902	27	61.4	543	4	US-10-781-758-10	Sequence 10, App1	975	27	61.4	695	3	US-09-783-436-14	Sequence 74, App1		
903	27	61.4	543	4	US-10-786-149-2	Sequence 2, App1	976	27	61.4	695	3	US-09-783-436-74	Sequence 74, App1		

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977 27 61.4 696 4 US-10-282-122A-49224 Sequence 49224, A
978 27 61.4 700 3 US-10-282-122A-50069 Sequence 50069, A
979 27 61.4 712 3 US-09-815-242-14059 Sequence 14059, A
980 27 61.4 715 4 US-10-320-786-134 Sequence 134, App
981 27 61.4 721 4 US-10-288-252-14 Sequence 14, App1
982 27 61.4 721 4 US-10-301-822-67 Sequence 67, App1
983 27 61.4 721 4 US-10-108-260A-3470 Sequence 3470, App
984 27 61.4 721 4 US-10-399-608-14 Sequence 14, App1
985 27 61.4 721 5 US-10-976-440-14 Sequence 14, App1
986 27 61.4 721 6 US-11-097-143-7977 Sequence 7977, App
987 27 61.4 731 4 US-10-087-192-834 Sequence 834, App
988 27 61.4 731 4 US-10-741-601-437 Sequence 437, App
989 27 61.4 731 5 US-10-921-707-9 Sequence 9, App1
990 27 61.4 735 4 US-10-087-192-831 Sequence 831, App
991 27 61.4 736 4 US-10-369-493-15895 Sequence 15895, A
992 27 61.4 736 4 US-10-369-493-16268 Sequence 16268, A
993 27 61.4 741 4 US-10-369-493-9437 Sequence 9437, App
994 27 61.4 741 4 US-10-369-493-9493 Sequence 9493, App
995 27 61.4 744 4 US-10-437-963-122954 Sequence 122954, A
996 27 61.4 745 6 US-11-097-143-39840 Sequence 39840, A
997 27 61.4 748 4 US-10-282-122A-67486 Sequence 67486, A
998 27 61.4 756 3 US-09-745-763-142 Sequence 142, App
999 27 61.4 756 4 US-10-408-765A-595 Sequence 595, App
1000 27 61.4 758 4 US-10-369-493-17593 Sequence 17593, A
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ALIGNMENTS

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RESULT 1
US-10-239-313A-525
; Sequence 525, Application US/10239313A
; Publication No. US20030175285A1
; GENERAL INFORMATION:
; APPLICANT: KLINGUER - HAMOUR, Chrietine
; APPLICANT: CORVAIA, Nathalie
; APPLICANT: BECK, Alain
; APPLICANT: GORTSCH, Liliane
; TITLE OF INVENTION: MOLECULE OF PHARMACEUTICAL INTEREST COMPRISING AT ITS
; TITLE OF INVENTION: N-TERMINAL A GLUTAMIC ACID OR A GLUTAMINE IN THE FORM
; FILE REFERENCE: 343 727 - US
; CURRENT APPLICATION NUMBER: US/10/239,313A
; CURRENT FILING DATE: 2002-09-19
; PRIOR APPLICATION NUMBER: FR 00/03711
; PRIOR FILING DATE: 2000-03-23
; PRIOR APPLICATION NUMBER: PCT 01/70772
; PRIOR FILING DATE: 2001-03-22
; NUMBER OF SEQ ID NOS: 697
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 525
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-10-239-313A-525

Query Match 100.0%; Score 44; DB 4; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.7e+06;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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APPLICANT: BOURGAULT-VILLADA, Isabelle
APPLICANT: POUVELLE-MORATILLE, Sandra
APPLICANT: GUILLET, Jean-Gerard
; TITLE OF INVENTION: Mixture of peptides derived from B6 and/or E7
; FILE REFERENCE: 45636-5071-US
; CURRENT APPLICATION NUMBER: US/10/476,570
; CURRENT FILING DATE: 2003-11-04
; PRIOR APPLICATION NUMBER: PCT/FR02/01533
; PRIOR FILING DATE: 2002-05-03
; PRIOR APPLICATION NUMBER: FR 01 05980
; PRIOR FILING DATE: 2001-05-04
; NUMBER OF SEQ ID NOS: 63
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 25
; LENGTH: 15
; TYPE: PRT
; ORGANISM: artificial sequence
; FEATURE:
; OTHER INFORMATION: Description of the artificial sequence: peptide B6 36-50
US-10-476-570-25

Query Match 100.0%; Score 44; DB 4; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.094;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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RESULT 3
US-10-476-570-28
; Sequence 28, Application US/10476570
; Publication No. US20040170644A1
; GENERAL INFORMATION:
; APPLICANT: COMMISSARIAT A L'ENERGIE ATOMIQUE
; APPLICANT: INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE
; APPLICANT: MAILLIERE, Bernard
; APPLICANT: BOURGAULT-VILLADA, Isabelle
; APPLICANT: POUVELLE-MORATILLE, Sandra
; APPLICANT: GUILLET, Jean-Gerard
; TITLE OF INVENTION: Mixture of peptides derived from B6 and/or E7
; FILE REFERENCE: 45636-5071-US
; CURRENT APPLICATION NUMBER: US/10/476,570
; CURRENT FILING DATE: 2003-11-04
; PRIOR APPLICATION NUMBER: PCT/FR02/01533
; PRIOR FILING DATE: 2002-05-03
; PRIOR APPLICATION NUMBER: FR 01 05980
; PRIOR FILING DATE: 2001-05-04
; NUMBER OF SEQ ID NOS: 63
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 28
; LENGTH: 15
; TYPE: PRT
; ORGANISM: artificial sequence
; FEATURE:
; OTHER INFORMATION: Description of the artificial sequence: peptide B6 42-56
US-10-476-570-28

Query Match 100.0%; Score 44; DB 4; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.094;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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RESULT 4
US-10-476-570-10
; Sequence 10, Application US/10476570
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; Publication No. US20040170644A1
; GENERAL INFORMATION:
; APPLICANT: COMMISSARIAT A L'ENERGIE ATOMIQUE
; APPLICANT: INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE
; APPLICANT: MAILLIERE, Bernard
; APPLICANT: BOURGAULT-VILLADA, Isabelle
; APPLICANT: POUVELLE-MORATILLE, Sandra
; APPLICANT: GUILLET, Jean-Gerard
; TITLE OF INVENTION: Mixture of peptides derived from E6 and/or E7
; TITLE OF INVENTION: papillomavirus proteins and uses thereof
; FILE REFERENCE: 45636-5071-US
; CURRENT APPLICATION NUMBER: US/10/476,570
; CURRENT FILING DATE: 2003-11-04
; PRIOR APPLICATION NUMBER: PCT/FR02/01533
; PRIOR FILING DATE: 2002-05-03
; PRIOR APPLICATION NUMBER: FR 01 05980
; PRIOR FILING DATE: 2001-05-04
; NUMBER OF SEQ ID NOS: 63
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 10
; LENGTH: 21
; TYPE: PRT
; ORGANISM: artificial sequence
; FEATURE:
; OTHER INFORMATION: Description of the artificial sequence: peptide E6 30-50
US-10-476-570-10

Query Match          100.0%; Score 44; DB 4; Length 21;
Best Local Similarity 100.0%; Pred. No. 0.13;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 QOLLRREVY 9
DB 13 QOLLRREVY 21

RESULT 5
US-10-177-390-6
; Sequence 6, Application US/10177390
; Publication No. US20030143743A1
; GENERAL INFORMATION:
; APPLICANT: Schuler, Gerold
; APPLICANT: N.V. Antwerp Innovatielab
; TITLE OF INVENTION: Improved transfection of Eucaryotic Cells with Linear
; TITLE OF INVENTION: Polynucleotides by Electroporation
; FILE REFERENCE: 021505wo/JH/ml
; CURRENT APPLICATION NUMBER: US/10/177,390
; CURRENT FILING DATE: 2002-06-20
; NUMBER OF SEQ ID NOS: 34
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 6
; LENGTH: 151
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-10-177-390-6

Query Match          100.0%; Score 44; DB 4; Length 151;
Best Local Similarity 100.0%; Pred. No. 0.96;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 QOLLRREVY 9
DB 35 QOLLRREVY 43

RESULT 6
US-10-484-063-20
; Sequence 20, Application US/10484063
; Publication No. US20050048467A1
; GENERAL INFORMATION:
; APPLICANT: SASTRY, K. JAGANNADHA
; APPLICANT: TORTOLERO-LUNA, GUILTERMO
; APPLICANT: FOLLEN, MICHELE
```

```
; TITLE OF INVENTION: METHODS AND COMPOSITIONS RELATING TO HPV-ASSOCIATED
; TITLE OF INVENTION: PRE-CANCEROUS AND CANCEROUS GROWTHS, INCLUDING CIN
; FILE REFERENCE: US03:560US
; CURRENT APPLICATION NUMBER: US/10/484,063
; CURRENT FILING DATE: 2004-01-16
; PRIOR APPLICATION NUMBER: PCT/US02/23198
; PRIOR FILING DATE: 2002-07-19
; PRIOR APPLICATION NUMBER: 60/306,809
; PRIOR FILING DATE: 2001-07-20
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 20
; LENGTH: 151
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-484-063-20

Query Match          100.0%; Score 44; DB 5; Length 151;
Best Local Similarity 100.0%; Pred. No. 0.96;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 QOLLRREVY 9
DB 35 QOLLRREVY 43

RESULT 7
US-10-484-063-27
; Sequence 27, Application US/10484063
; Publication No. US20050048467A1
; GENERAL INFORMATION:
; APPLICANT: SASTRY, K. JAGANNADHA
; APPLICANT: TORTOLERO-LUNA, GUILTERMO
; APPLICANT: FOLLEN, MICHELE
; TITLE OF INVENTION: METHODS AND COMPOSITIONS RELATING TO HPV-ASSOCIATED
; TITLE OF INVENTION: PRE-CANCEROUS AND CANCEROUS GROWTHS, INCLUDING CIN
; FILE REFERENCE: US03:560US
; CURRENT APPLICATION NUMBER: US/10/484,063
; CURRENT FILING DATE: 2004-01-16
; PRIOR APPLICATION NUMBER: PCT/US02/23198
; PRIOR FILING DATE: 2002-07-19
; PRIOR APPLICATION NUMBER: 60/306,809
; PRIOR FILING DATE: 2001-07-20
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 27
; LENGTH: 151
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-10-484-063-27

Query Match          100.0%; Score 44; DB 5; Length 151;
Best Local Similarity 100.0%; Pred. No. 0.96;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 QOLLRREVY 9
DB 35 QOLLRREVY 43

RESULT 8
US-10-858-384-2
; Sequence 2, Application US/10858384
; Publication No. US20050033025A1
; GENERAL INFORMATION:
; APPLICANT: CHOPPIN, JEANNINE
; APPLICANT: BOURGAULT-VILLADA, ISABELLE
; APPLICANT: GUILLET, JEAN-GERARD
; APPLICANT: CONNAN, FRANCOISE
; APPLICANT: FERRIES, ESTELLE
; TITLE OF INVENTION: POLYPEPTIDIC PROTEIN FRAGMENTS OF THE E6 PROTEIN
; TITLE OF INVENTION: OR E7 OF HPV, THEIR PRODUCTION AND THEIR USE
; TITLE OF INVENTION: PARTICULARLY IN VACCINATION
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; FILE REFERENCE: 0508-1037-1
; CURRENT APPLICATION NUMBER: US/10/858,384
; CURRENT FILING DATE: 2004-06-02
; PRIOR APPLICATION NUMBER: FR 9907012
; PRIOR FILING DATE: 1999-06-03
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: Patentin Ver. 3.2
; SEQ ID NO 2
; LENGTH: 158
; TYPE: PRT
; ORGANISM: Human Papillomavirus
US-10-858-384-2
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Query Match          100.0%; Score 44; DB 5; Length 158;
Best Local Similarity 100.0%; Pred. No. 1;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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OY      1 00LRRREVY 9
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Db       42 00LRRREVY 50
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RESULT 9
US-10-367-057-16
; Sequence 16, Application US/10367057
; Publication No. US20050100554A1
; GENERAL INFORMATION:
; APPLICANT: Cuthill, Scott;
; APPLICANT: Jackson, Amanda;
; APPLICANT: Lewin, David A.;
; APPLICANT: Ooi, Chean Eng
; TITLE OF INVENTION: Complexes and Methods of Using Same
; FILE REFERENCE: 21402-559
; CURRENT APPLICATION NUMBER: US/10/367,057
; CURRENT FILING DATE: 2003-02-14
; PRIOR APPLICATION NUMBER: 60/256,911
; PRIOR FILING DATE: 2002-02-14
; NUMBER OF SEQ ID NOS: 198
; SOFTWARE: Curaseqlist version 0.1
; SEQ ID NO 16
; LENGTH: 158
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-367-057-16
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Query Match          100.0%; Score 44; DB 5; Length 158;
Best Local Similarity 100.0%; Pred. No. 1;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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```
OY      1 00LRRREVY 9
         |||||
Db       42 00LRRREVY 50
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RESULT 10
US-11-021-949-13
; Sequence 13, Application US/11021949
; Publication No. US20050142541A1
; GENERAL INFORMATION:
; APPLICANT: LU, PETER
; APPLICANT: GARMAN, JONATHAN DAVID
; APPLICANT: BELMARE, MICHAEL P.
; APPLICANT: DIAZ-SARMIENTO, CHAMORRO SOMOZA
; APPLICANT: SCHWEIZER, JOHANNES
; TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
; FILE REFERENCE: VITA-012
; CURRENT APPLICATION NUMBER: US/11/021,949
; CURRENT FILING DATE: 2004-12-23
; PRIOR APPLICATION NUMBER: 60/532,373
; PRIOR FILING DATE: 2003-12-23
; NUMBER OF SEQ ID NOS: 361
; SOFTWARE: FastSeq for Windows Version 4.0
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; SEQ ID NO 13
; LENGTH: 158
; TYPE: PRT
; ORGANISM: human papilloma virus (HPV)
US-11-021-949-13
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Query Match          100.0%; Score 44; DB 6; Length 158;
Best Local Similarity 100.0%; Pred. No. 1;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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OY      1 00LRRREVY 9
         |||||
Db       42 00LRRREVY 50
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RESULT 11
US-10-472-724-2
; Sequence 2, Application US/10472724
; Publication No. US20040171806A1
; GENERAL INFORMATION:
; APPLICANT: Zur Hausen, Harald
; TITLE OF INVENTION: Modified HPV E6 and E7 genes and proteins useful for vaccination
; FILE REFERENCE: 4121-154
; CURRENT APPLICATION NUMBER: US/10/472,724
; CURRENT FILING DATE: 2003-09-17
; PRIOR APPLICATION NUMBER: PCT/EP02/03271
; PRIOR FILING DATE: 2002-03-22
; PRIOR APPLICATION NUMBER: EP 01107271.7
; PRIOR FILING DATE: 2001-03-23
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: Patentin version 3.2
; SEQ ID NO 2
; LENGTH: 171
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Construct
US-10-472-724-2
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Query Match          100.0%; Score 44; DB 4; Length 171;
Best Local Similarity 100.0%; Pred. No. 1.1;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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OY      1 00LRRREVY 9
         |||||
Db       47 00LRRREVY 55
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RESULT 12
US-11-072-288-1
; Sequence 1, Application US/11072288
; Publication No. US20050159386A1
; GENERAL INFORMATION:
; APPLICANT: KIENY, Marie-Paule
; APPLICANT: BALLOU, Jean-Marc
; APPLICANT: BIZOUARNE, Nadine
; TITLE OF INVENTION: ANTITUMORAL COMPOSITION BASED ON IMMUNOGENIC
; FILE REFERENCE: 01753-122
; CURRENT APPLICATION NUMBER: US/11/072,288
; CURRENT FILING DATE: 2005-03-07
; PRIOR APPLICATION NUMBER: US/09/462,993
; PRIOR FILING DATE: 2000-04-17
; PRIOR APPLICATION NUMBER: PCT/FR98/01576
; PRIOR FILING DATE: 1998-07-17
; PRIOR APPLICATION NUMBER: FR 97/09152
; PRIOR FILING DATE: 1997-07-18
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: Patentin Ver. 2.2
; SEQ ID NO 1
; LENGTH: 243
; TYPE: PRT
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ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Derived from
OTHER INFORMATION: human papillomavirus, strain HPV-16, E6 protein
OTHER INFORMATION: fused F protein signals, clone B6*TMF.
US-11-072-288-1

Query Match 100.0%; Score 44; DB 6; Length 243;
Best Local Similarity 100.0%; Pred. No. 1.5;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 QOLLRREYV 9
|||||
Db 70 QOLLRREYV 78

RESULT 13
US-09-367-309A-1
Sequence 1, Application US/09367309A
Publication No. US20020081329A1
GENERAL INFORMATION:
APPLICANT: MACPARIAN, RODERICK I.
TITLE OF INVENTION: CHELATING IMMUNOSTIMULATING COMPLEXES
FILE REFERENCE: 017227/0149
CURRENT APPLICATION NUMBER: US/09/367,309A
CURRENT FILING DATE: 1999-08-11
PRIOR APPLICATION NUMBER: PCT/AU98/00080
PRIOR FILING DATE: 1998-02-13
PRIOR APPLICATION NUMBER: AU PO 5178
PRIOR FILING DATE: 1997-02-19
NUMBER OF SEQ ID NOS: 6
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 1
LENGTH: 266
TYPE: PRT
ORGANISM: Human papillomavirus type 16
US-09-367-309A-1

Query Match 100.0%; Score 44; DB 3; Length 266;
Best Local Similarity 100.0%; Pred. No. 1.7;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 QOLLRREYV 9
|||||
Db 42 QOLLRREYV 50

RESULT 14
US-10-000-903-4
Sequence 4, Application US/10000903
Publication No. US2002018221A1
GENERAL INFORMATION:
APPLICANT: Bruck, Claudine
APPLICANT: Cabazon Silva, Teresa
APPLICANT: Delisse, Anne-Marie Eva Bernande
APPLICANT: Gerard, Catherine Marie Ghislaine
APPLICANT: Lombardo-Benchetkh, Angela
TITLE OF INVENTION: Vaccine
FILE REFERENCE: B45107
CURRENT APPLICATION NUMBER: US/10/000,903
CURRENT FILING DATE: 2001-10-01
PRIOR APPLICATION NUMBER: PCT/EP98/05285
PRIOR FILING DATE: 1998-08-17
PRIOR APPLICATION NUMBER: GB 97117953.5
PRIOR FILING DATE: 1997-08-22
NUMBER OF SEQ ID NOS: 23
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 4
LENGTH: 273
TYPE: PRT
ORGANISM: Homo sapien
US-10-000-903-4

Query Match 100.0%; Score 44; DB 4; Length 273;
Best Local Similarity 100.0%; Pred. No. 1.7;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 QOLLRREYV 9
|||||
Db 148 QOLLRREYV 156

RESULT 15
US-10-899-771-4
Sequence 4, Application US/10899771
Publication No. US20050031638A1
GENERAL INFORMATION:
APPLICANT: Dalemans, Wilfried L.J.
TITLE OF INVENTION: Compositions Comprising Human Papilloma Virus Proteins
TITLE OF INVENTION: and Fusion Proteins Adjuvanted with a Cpg Oligonucleotide
FILE REFERENCE: B45124
CURRENT APPLICATION NUMBER: US/10/899,771
CURRENT FILING DATE: 2004-07-27
PRIOR APPLICATION NUMBER: US/09/581,976
PRIOR FILING DATE: 2000-06-20
PRIOR APPLICATION NUMBER: PCT/EP98/08563
PRIOR FILING DATE: 1998-12-18
PRIOR APPLICATION NUMBER: GB 9727262.9
PRIOR FILING DATE: 1997-12-24
NUMBER OF SEQ ID NOS: 28
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 4
LENGTH: 273
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Chimeric protein (protein D from Haemophilus
OTHER INFORMATION: influenzae B and B6 from Human papilloma virus type
OTHER INFORMATION: 16)
US-10-899-771-4

Query Match 100.0%; Score 44; DB 5; Length 273;
Best Local Similarity 100.0%; Pred. No. 1.7;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 QOLLRREYV 9
|||||
Db 148 QOLLRREYV 156

RESULT 16
US-10-000-903-10
Sequence 10, Application US/10000903
Publication No. US2002018221A1
GENERAL INFORMATION:
APPLICANT: Bruck, Claudine
APPLICANT: Cabazon Silva, Teresa
APPLICANT: Delisse, Anne-Marie Eva Bernande
APPLICANT: Gerard, Catherine Marie Ghislaine
APPLICANT: Lombardo-Benchetkh, Angela
TITLE OF INVENTION: Vaccine
FILE REFERENCE: B45107
CURRENT APPLICATION NUMBER: US/10/000,903
CURRENT FILING DATE: 2001-10-01
PRIOR APPLICATION NUMBER: PCT/EP98/05285
PRIOR FILING DATE: 1998-08-17
PRIOR APPLICATION NUMBER: GB 97117953.5
PRIOR FILING DATE: 1997-08-22
NUMBER OF SEQ ID NOS: 23
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 10
LENGTH: 292
TYPE: PRT
ORGANISM: Homo sapien
US-10-000-903-10

US-10-000-903-10

Query Match 100.0%; Score 44; DB 4; Length 292;
Best Local Similarity 100.0%; Pred. No. 1.9;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 QOLLRREY 9
Db 167 QOLLRREY 175

RESULT 17

US-10-899-771-10

Sequence 10, Application US/10899771
Publication No. US20050031638A1
GENERAL INFORMATION:
APPLICANT: Dalemans, Wilfried L.J.
APPLICANT: Gerard, Catherine Marie Ghislaine
TITLE OF INVENTION: Compositions Comprising Human Papilloma Virus Proteins
TITLE OF INVENTION: and Fusion Proteins Adjuvanted with a CpG Oligonucleotide
FILE REFERENCE: B45124
CURRENT APPLICATION NUMBER: US/10/899,771
CURRENT FILING DATE: 2004-07-27
PRIOR APPLICATION NUMBER: US/09/581,976
PRIOR FILING DATE: 2000-06-20
PRIOR APPLICATION NUMBER: PCT/EP98/08563
PRIOR FILING DATE: 1998-12-18
PRIOR APPLICATION NUMBER: GB 9727262.9
PRIOR FILING DATE: 1997-12-24
NUMBER OF SEQ ID NOS: 28
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 10
LENGTH: 292
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Chimeric protein (Clyta from Streptococcus
OTHER INFORMATION: pneumoniae and E6 from Human papilloma virus type
OTHER INFORMATION: 16)
US-10-899-771-10

Query Match 100.0%; Score 44; DB 5; Length 292;
Best Local Similarity 100.0%; Pred. No. 1.9;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 QOLLRREY 9
Db 167 QOLLRREY 175

RESULT 18

US-10-000-903-6

Sequence 6, Application US/10000903
Publication No. US20020182221A1
GENERAL INFORMATION:
APPLICANT: Bruck, Claudine
APPLICANT: Cabezon Silva, Teresa
APPLICANT: Delisse, Anne-Marie Eva Fernande
APPLICANT: Gerard, Catherine Marie Ghislaine
APPLICANT: Lombardo-Bencheikh, Angela
TITLE OF INVENTION: Vaccine
FILE REFERENCE: B45107
CURRENT APPLICATION NUMBER: US/10/000,903
CURRENT FILING DATE: 2001-10-01
PRIOR APPLICATION NUMBER: PCT/EP98/05285
PRIOR FILING DATE: 1998-08-17
PRIOR APPLICATION NUMBER: GB 9717953.5
PRIOR FILING DATE: 1997-08-22
NUMBER OF SEQ ID NOS: 23
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 6
LENGTH: 371
TYPE: PRT

; ORGANISM: Homo sapien

US-10-000-903-6

Query Match 100.0%; Score 44; DB 4; Length 371;
Best Local Similarity 100.0%; Pred. No. 2.4;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 QOLLRREY 9
Db 148 QOLLRREY 156

RESULT 19

US-10-899-771-6

Sequence 6, Application US/10899771
Publication No. US20050031638A1
GENERAL INFORMATION:
APPLICANT: Dalemans, Wilfried L.J.
APPLICANT: Gerard, Catherine Marie Ghislaine
TITLE OF INVENTION: Compositions Comprising Human Papilloma Virus Proteins
TITLE OF INVENTION: and Fusion Proteins Adjuvanted with a CpG Oligonucleotide
FILE REFERENCE: B45124
CURRENT APPLICATION NUMBER: US/10/899,771
CURRENT FILING DATE: 2004-07-27
PRIOR APPLICATION NUMBER: US/09/581,976
PRIOR FILING DATE: 2000-06-20
PRIOR APPLICATION NUMBER: PCT/EP98/08563
PRIOR FILING DATE: 1998-12-18
PRIOR APPLICATION NUMBER: GB 9727262.9
PRIOR FILING DATE: 1997-12-24
NUMBER OF SEQ ID NOS: 28
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 6
LENGTH: 371
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Chimeric protein (protein D from Haemophilus
OTHER INFORMATION: influenzae B and E6f7 fusion from Human papilloma
OTHER INFORMATION: virus type 16)
US-10-899-771-6

Query Match 100.0%; Score 44; DB 5; Length 371;
Best Local Similarity 100.0%; Pred. No. 2.4;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 QOLLRREY 9
Db 148 QOLLRREY 156

RESULT 20

US-10-000-903-14

Sequence 14, Application US/10000903
Publication No. US20020182221A1
GENERAL INFORMATION:
APPLICANT: Bruck, Claudine
APPLICANT: Cabezon Silva, Teresa
APPLICANT: Delisse, Anne-Marie Eva Fernande
APPLICANT: Gerard, Catherine Marie Ghislaine
APPLICANT: Lombardo-Bencheikh, Angela
TITLE OF INVENTION: Vaccine
FILE REFERENCE: B45107
CURRENT APPLICATION NUMBER: US/10/000,903
CURRENT FILING DATE: 2001-10-01
PRIOR APPLICATION NUMBER: PCT/EP98/05285
PRIOR FILING DATE: 1998-08-17
PRIOR APPLICATION NUMBER: GB 9717953.5
PRIOR FILING DATE: 1997-08-22
NUMBER OF SEQ ID NOS: 23
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 14
LENGTH: 390


```

; TYPE: PRT
; ORGANISM: Homo sapien
US-10-000-303-14

Query Match      100.0%; Score 44; DB 4; Length 390;
Best Local Similarity 100.0%; Pred. No. 2.5;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 00LLRREYV 9
        |||||
Db      167 00LLRREYV 175

RESULT 21
US-10-899-771-14
; Sequence 14, Application US/10899771
; Publication No. US20050031638A1
; GENERAL INFORMATION:
; APPLICANT: Dalemans, Wilfried L.J.
; APPLICANT: Gerard, Catherine Marie Ghislaine
; TITLE OF INVENTION: Compositions Comprising Human Papilloma Virus Proteins
; TITLE OF INVENTION: and Fusion Proteins Adjuvanted with a Cpg Oligonucleotide
; FILE REFERENCE: B45124
; CURRENT APPLICATION NUMBER: US/10/899,771
; CURRENT FILING DATE: 2004-07-27
; PRIOR APPLICATION NUMBER: US/09/581,976
; PRIOR FILING DATE: 2000-06-20
; PRIOR APPLICATION NUMBER: PCT/EP98/08563
; PRIOR FILING DATE: 1998-12-18
; PRIOR APPLICATION NUMBER: GB 9727262.9
; PRIOR FILING DATE: 1997-12-24
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 14
LENGTH: 390
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: chimaeric protein (Clyta from Streptococcus
OTHER INFORMATION: pneumoniae and E6E7 fusion from Human papilloma
OTHER INFORMATION: virus type 16)
US-10-899-771-14

Query Match      100.0%; Score 44; DB 5; Length 390;
Best Local Similarity 100.0%; Pred. No. 2.5;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 00LLRREYV 9
        |||||
Db      167 00LLRREYV 175

RESULT 22
US-10-367-095-10
; Sequence 10, Application US/10367095
; Publication No. US20030228696A1
; GENERAL INFORMATION:
; APPLICANT: Robin A. Robinson
; TITLE OF INVENTION: No. US20030228696A1 Insect Cell Line
; FILE REFERENCE: 44149-1US1
; CURRENT APPLICATION NUMBER: US/10/367,095
; CURRENT FILING DATE: 2003-02-14
; PRIOR APPLICATION NUMBER: US 60/356,119
; PRIOR FILING DATE: 2002-02-14
; PRIOR APPLICATION NUMBER: US 60/356,161
; PRIOR FILING DATE: 2002-02-14
; PRIOR APPLICATION NUMBER: US 60/356,118
; PRIOR FILING DATE: 2002-02-14
; PRIOR APPLICATION NUMBER: US 60/356,133
; PRIOR FILING DATE: 2002-02-14
; PRIOR APPLICATION NUMBER: US 60/356,157
; PRIOR FILING DATE: 2002-02-14
; PRIOR APPLICATION NUMBER: US 60/356,156
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; PRIOR FILING DATE: 2002-02-14
; PRIOR APPLICATION NUMBER: US 60/356,123
; PRIOR FILING DATE: 2002-02-14
; PRIOR APPLICATION NUMBER: US 60/356,113
; PRIOR FILING DATE: 2002-02-14
; PRIOR APPLICATION NUMBER: US 60/356,154
; PRIOR FILING DATE: 2002-02-14
; PRIOR APPLICATION NUMBER: US 60/356,135
; PRIOR FILING DATE: 2002-02-14
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 13
; SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 10
LENGTH: 536
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: HPV-16 L2/B6 fusion protein
US-10-368-046-10

Query Match      100.0%; Score 44; DB 4; Length 536;
Best Local Similarity 100.0%; Pred. No. 3.4;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 00LLRREYV 9
        |||||
Db      512 00LLRREYV 520

RESULT 23
US-10-368-046-10
; Sequence 10, Application US/10368046
; Publication No. US20040063188A1
; GENERAL INFORMATION:
; APPLICANT: Robin A. Robinson
; APPLICANT: Victoria Cloce
; TITLE OF INVENTION: Method for Isolation and Purification of
; TITLE OF INVENTION: Expressed Gene Products In Vitro
; FILE REFERENCE: 44149-3US1
; CURRENT APPLICATION NUMBER: US/10/368,046
; CURRENT FILING DATE: 2003-02-15
; PRIOR APPLICATION NUMBER: US 60/356,119
; PRIOR FILING DATE: 2002-02-14
; PRIOR APPLICATION NUMBER: US 60/356,161
; PRIOR FILING DATE: 2002-02-14
; PRIOR APPLICATION NUMBER: US 60/356,118
; PRIOR FILING DATE: 2002-02-14
; PRIOR APPLICATION NUMBER: US 60/356,133
; PRIOR FILING DATE: 2002-02-14
; PRIOR APPLICATION NUMBER: US 60/356,157
; PRIOR FILING DATE: 2002-02-14
; PRIOR APPLICATION NUMBER: US 60/356,156
; PRIOR FILING DATE: 2002-02-14
; PRIOR APPLICATION NUMBER: US 60/356,123
; PRIOR FILING DATE: 2002-02-14
; PRIOR APPLICATION NUMBER: US 60/356,113
; PRIOR FILING DATE: 2002-02-14
; PRIOR APPLICATION NUMBER: US 60/356,154
; PRIOR FILING DATE: 2002-02-14
; PRIOR APPLICATION NUMBER: US 60/356,135
; PRIOR FILING DATE: 2002-02-14
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 13
; SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 10
LENGTH: 536
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: HPV-16 L2/B6 fusion protein
US-10-368-046-10

Query Match      100.0%; Score 44; DB 4; Length 536;
```

Best Local Similarity 100.0%; Pred. No. 3.4;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 QQLRREYV 9
|||
Db 512 QQLRREYV 520

RESULT 24

US-10-367-367-10
; Sequence 10, Application US/10367367
; Publication No. US20040121465A1

GENERAL INFORMATION:

APPLICANT: Robin A. Robinson

TITLE OF INVENTION: Optimization of Gene Sequences of

FILE OF INVENTION: Virus-Like Particles for Expression in Insect Cells

FILE REFERENCE: 44149-2U51

CURRENT APPLICATION NUMBER: US/10/367,367

CURRENT FILING DATE: 2003-02-15

PRIOR APPLICATION NUMBER: US 60/356,119

PRIOR FILING DATE: 2002-02-14

PRIOR APPLICATION NUMBER: US 60/356,161

PRIOR FILING DATE: 2002-02-14

PRIOR APPLICATION NUMBER: US 60/356,118

PRIOR FILING DATE: 2002-02-14

PRIOR APPLICATION NUMBER: US 60/356,133

PRIOR FILING DATE: 2002-02-14

PRIOR APPLICATION NUMBER: US 60/356,157

PRIOR FILING DATE: 2002-02-14

PRIOR APPLICATION NUMBER: US 60/356,156

PRIOR FILING DATE: 2002-02-14

NUMBER OF SEQ ID NOS: 13

SOFTWARE: FastSeq for Windows Version 4.0

SEQ ID NO 10

LENGTH: 536

TYPE: PRT

ORGANISM: Artificial Sequence

FEATURE:

OTHER INFORMATION: HPV-16 L2/B6 fusion protein

Query Match 100.0%; Score 44; DB 4; Length 536;
Best Local Similarity 100.0%; Pred. No. 3.4;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 QQLRREYV 9
|||
Db 512 QQLRREYV 520

RESULT 25

US-10-918-337-10
; Sequence 10, Application US/10918337
; Publication No. US2005011819A1

GENERAL INFORMATION:

APPLICANT: NOVAVAX, INC., et al.

TITLE OF INVENTION: Optimization of Gene Sequences of

FILE OF INVENTION: Chimeric Virus-Like Particles for Expression in Insect Cells

FILE REFERENCE: 19065/2132

CURRENT APPLICATION NUMBER: US/10/918,337

CURRENT FILING DATE: 2004-08-13

PRIOR APPLICATION NUMBER: PCT/US03/04473

PRIOR FILING DATE: 2003-02-14

PRIOR APPLICATION NUMBER: US 60/356,119

PRIOR FILING DATE: 2002-02-14

PRIOR APPLICATION NUMBER: US 60/356,161

PRIOR FILING DATE: 2002-02-14

PRIOR APPLICATION NUMBER: US 60/356,118

PRIOR FILING DATE: 2002-02-14

PRIOR APPLICATION NUMBER: US 60/356,133

PRIOR FILING DATE: 2002-02-14

PRIOR APPLICATION NUMBER: US 60/356,157

PRIOR FILING DATE: 2002-02-14

PRIOR APPLICATION NUMBER: US 60/356,156

PRIOR FILING DATE: 2002-02-14

PRIOR APPLICATION NUMBER: US 60/356,123

PRIOR FILING DATE: 2002-02-14

PRIOR APPLICATION NUMBER: US 60/356,113

PRIOR FILING DATE: 2002-02-14

PRIOR APPLICATION NUMBER: US 60/356,154

PRIOR FILING DATE: 2002-02-14

Remaining Prior Application data removed - See File Wrapper or PALM.

NUMBER OF SEQ ID NOS: 13

SOFTWARE: FastSeq for Windows Version 4.0

SEQ ID NO 10

LENGTH: 536

TYPE: PRT

ORGANISM: Artificial Sequence

FEATURE:

OTHER INFORMATION: HPV-16 L2/B6 fusion protein

Query Match 100.0%; Score 44; DB 5; Length 536;
Best Local Similarity 100.0%; Pred. No. 3.4;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 QQLRREYV 9
|||
Db 512 QQLRREYV 520

RESULT 26

US-10-484-063-4
; Sequence 4, Application US/10484063
; Publication No. US20050048467A1

GENERAL INFORMATION:

APPLICANT: SASTRY, K. JAGANNADHA

APPLICANT: TORTOLERO-LUNA, GUILTERMO

APPLICANT: FOLLEN, MICHAEL

TITLE OF INVENTION: METHODS AND COMPOSITIONS RELATING TO HPV-ASSOCIATED

TITLE OF INVENTION: PRE-CANCEROUS AND CANCEROUS GROWTHS, INCLUDING CIN

FILE REFERENCE: UTSC:560US

CURRENT APPLICATION NUMBER: US/10/484,063

CURRENT FILING DATE: 2004-01-16

PRIOR APPLICATION NUMBER: PCT/US02/23198

PRIOR FILING DATE: 2002-07-19

PRIOR APPLICATION NUMBER: 60/306,809

PRIOR FILING DATE: 2001-07-20

NUMBER OF SEQ ID NOS: 27

SOFTWARE: PatentIn Ver. 2.1

SEQ ID NO 4

LENGTH: 15

TYPE: PRT

ORGANISM: Human papillomavirus

US-10-484-063-4

Query Match 88.6%; Score 39; DB 5; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.92;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 QQLRREYV 9
|||
Db 1 QQLRREYV 8

RESULT 27

US-10-751-845-82
; Sequence 82, Application US/10751845
; Publication No. US20050100928A1

GENERAL INFORMATION:

APPLICANT: Hedley, Mary Lynne

APPLICANT: Urban, Robert G.

APPLICANT: Chicz, Roman M.

TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES

FILE REFERENCE: 08191-013001

CURRENT APPLICATION NUMBER: US/10/751,845

CURRENT FILING DATE: 2004-01-05
PRIOR APPLICATION NUMBER: US/09/664,225
PRIOR FILING DATE: 2000-08-18
PRIOR APPLICATION NUMBER: US 60/169,846
PRIOR FILING DATE: 1999-12-09
PRIOR APPLICATION NUMBER: US 60/154,665
PRIOR FILING DATE: 1999-09-16
NUMBER OF SEQ ID NOS: 163
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO: 82
LENGTH: 9
TYPE: PRT
ORGANISM: Human Papilloma virus
US-10-751-845-82

Query Match 77.3%; Score 34; DB 5; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.7e+06;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3 LRRREV 9
|||||
DB 1 LRRREV 7

RESULT 28
US-10-476-570-27

Sequence 27, Application US/10476570
Publication No. US20040170644A1
GENERAL INFORMATION:
APPLICANT: COMMISSARIAT A L'ENERGIE ATOMIQUE
APPLICANT: INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE
APPLICANT: MAILLIER, Bernard
APPLICANT: BOURGAULT-VILADA, Isabelle
APPLICANT: POUVELE-MORATILLE, Sandra
APPLICANT: GUILLET, Jean-Geard
TITLE OF INVENTION: Mixture of peptides derived from B6 and/or E7
FILE REFERENCE: 45636-5071-US
CURRENT APPLICATION NUMBER: US/10/476,570
CURRENT FILING DATE: 2003-11-04
PRIOR APPLICATION NUMBER: PCT/FR02/01533
PRIOR FILING DATE: 2002-05-03
PRIOR APPLICATION NUMBER: FR 01 05980
PRIOR FILING DATE: 2001-05-04
NUMBER OF SEQ ID NOS: 63
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO: 27
LENGTH: 23
TYPE: PRT
ORGANISM: artificial sequence
FEATURE:
OTHER INFORMATION: Description of the artificial sequence: peptide B6 44-67
US-10-476-570-27

Query Match 77.3%; Score 34; DB 4; Length 23;
Best Local Similarity 100.0%; Pred. No. 14;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3 LRRREV 9
|||||
DB 1 LRRREV 7

RESULT 29
US-10-751-845-65

Sequence 65, Application US/10751845
Publication No. US20050100928A1
GENERAL INFORMATION:
APPLICANT: Hedley, Mary Lynne
APPLICANT: Urban, Robert G.
APPLICANT: Chicz, Roman M.
TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES
FILE REFERENCE: 08191-013001

CURRENT APPLICATION NUMBER: US/10/751,845
CURRENT FILING DATE: 2004-01-05
PRIOR APPLICATION NUMBER: US/09/664,225
PRIOR FILING DATE: 2000-08-18
PRIOR APPLICATION NUMBER: US 60/169,846
PRIOR FILING DATE: 1999-12-09
PRIOR APPLICATION NUMBER: US 60/154,665
PRIOR FILING DATE: 1999-09-16
NUMBER OF SEQ ID NOS: 163
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO: 65
LENGTH: 24
TYPE: PRT
ORGANISM: Human Papilloma virus
US-10-751-845-65

Query Match 77.3%; Score 34; DB 5; Length 24;
Best Local Similarity 100.0%; Pred. No. 14;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3 LRRREV 9
|||||
DB 1 LRRREV 7

RESULT 30
US-10-751-845-126

Sequence 126, Application US/10751845
Publication No. US20050100928A1
GENERAL INFORMATION:
APPLICANT: Hedley, Mary Lynne
APPLICANT: Urban, Robert G.
APPLICANT: Chicz, Roman M.
TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES
FILE REFERENCE: 08191-013001
CURRENT APPLICATION NUMBER: US/10/751,845
CURRENT FILING DATE: 2004-01-05
PRIOR APPLICATION NUMBER: US/09/664,225
PRIOR FILING DATE: 2000-08-18
PRIOR APPLICATION NUMBER: US 60/169,846
PRIOR FILING DATE: 1999-12-09
PRIOR APPLICATION NUMBER: US 60/154,665
PRIOR FILING DATE: 1999-09-16
NUMBER OF SEQ ID NOS: 163
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO: 126
LENGTH: 117
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Artificial fusion sequence
US-10-751-845-126

Query Match 77.3%; Score 34; DB 5; Length 117;
Best Local Similarity 100.0%; Pred. No. 71;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3 LRRREV 9
|||||
DB 21 LRRREV 27

RESULT 31
US-10-751-845-157

Sequence 157, Application US/10751845
Publication No. US20050100928A1
GENERAL INFORMATION:
APPLICANT: Hedley, Mary Lynne
APPLICANT: Urban, Robert G.
APPLICANT: Chicz, Roman M.
TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES
FILE REFERENCE: 08191-013001
CURRENT APPLICATION NUMBER: US/10/751,845

```

; CURRENT FILING DATE: 2004-01-05
; PRIOR APPLICATION NUMBER: US/09/664,225
; PRIOR FILING DATE: 2000-08-18
; PRIOR APPLICATION NUMBER: US 60/169,846
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: US 60/154,665
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 163
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 157
; LENGTH: 236
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Artificial fusion sequence
; US-10-751-845-157

Query Match      77.3%; Score 34; DB 5; Length 236;
Best Local Similarity 100.0%; Pred. No. 1.4e+02;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY      3 LRRREV 9
        |||||
Db      21 LRRREV 27

RESULT 32
US-10-751-845-158
; Sequence 158, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
; APPLICANT: Hedley, Mary Lynne
; APPLICANT: Urban, Robert G.
; APPLICANT: Chicz, Robert M.
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES
; FILE REFERENCE: 08191-013001
; CURRENT APPLICATION NUMBER: US/10/751,845
; CURRENT FILING DATE: 2004-01-05
; PRIOR APPLICATION NUMBER: US/09/664,225
; PRIOR FILING DATE: 2000-08-18
; PRIOR APPLICATION NUMBER: US 60/169,846
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: US 60/154,665
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 163
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 158
; LENGTH: 237
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Artificial fusion sequence
; US-10-751-845-158

Query Match      77.3%; Score 34; DB 5; Length 237;
Best Local Similarity 100.0%; Pred. No. 1.4e+02;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY      3 LRRREV 9
        |||||
Db      22 LRRREV 28

RESULT 33
US-10-751-845-160
; Sequence 160, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
; APPLICANT: Hedley, Mary Lynne
; APPLICANT: Urban, Robert G.
; APPLICANT: Chicz, Robert M.
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES
; FILE REFERENCE: 08191-013001
```

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; CURRENT APPLICATION NUMBER: US/10/751,845
; CURRENT FILING DATE: 2004-01-05
; PRIOR APPLICATION NUMBER: US/09/664,225
; PRIOR FILING DATE: 2000-08-18
; PRIOR APPLICATION NUMBER: US 60/169,846
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: US 60/154,665
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 163
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 160
; LENGTH: 261
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Artificial fusion sequence
; US-10-751-845-160

Query Match      77.3%; Score 34; DB 5; Length 261;
Best Local Similarity 100.0%; Pred. No. 1.6e+02;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY      3 LRRREV 9
        |||||
Db      46 LRRREV 52

RESULT 34
US-10-425-114-50845
; Sequence 50845, Application US/10425114
; Publication No. US20040034888A1
; GENERAL INFORMATION:
; APPLICANT: Liu, Jindong
; APPLICANT: Zhou, Yihua
; APPLICANT: Kovalic, David K.
; APPLICANT: Screen, Steven E
; APPLICANT: Tabaska, Jack E
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(5313)B
; CURRENT APPLICATION NUMBER: US/10/425,114
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 73128
; SEQ ID NO 50845
; LENGTH: 337
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: 700258394_FLI.pep
; US-10-425-114-50845

Query Match      77.3%; Score 34; DB 4; Length 337;
Best Local Similarity 77.8%; Pred. No. 2.1e+02;
Matches 7; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

OY      1 QQLRRREV 9
        |||||
Db      293 QQLRRREV 301

RESULT 35
US-10-425-114-69344
; Sequence 69344, Application US/10425114
; Publication No. US20040034888A1
; GENERAL INFORMATION:
; APPLICANT: Liu, Jindong
; APPLICANT: Zhou, Yihua
; APPLICANT: Kovalic, David K.
; APPLICANT: Screen, Steven E
; APPLICANT: Tabaska, Jack E
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
```

```

Query Match      75.0%; Score 33; DB 4; Length 87;
Best Local Similarity 85.7%; Pred. No. 83;
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Oy      3 LLRRRVY 9
        |||||:|
        |||||:|
        |||||:|
Db      16 LLRRRXY 22

RESULT 39
US-10-424-599-228526
; Sequence 228526, Application US/10424599
; Publication No. US20040031072a1
; GENERAL INFORMATION:
; APPLICANT: La Rosa Thomas J
; APPLICANT: Kovalic David K
; APPLICANT: Zhou Yihua
; APPLICANT: Cao Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With

```

```
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 228526
; LENGTH: 122
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_48387C.1.pep
US-10-424-599-228526

Query Match          75.0%; Score 33; DB 4; Length 122;
Best Local Similarity 77.8%; Pred. NO. 1.2e+02;
Matches 7; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY      1 QQLRREYV 9
Db      51 QALLRREYH 59

RESULT 40
US-10-424-599-262641
; Sequence 262641, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa Thomas J
; APPLICANT: Kovalic David K
; APPLICANT: Zhou Yihua
; APPLICANT: Cao Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 262641
; LENGTH: 231
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_79187C.1.pep
US-10-424-599-262641

Query Match          75.0%; Score 33; DB 4; Length 231;
Best Local Similarity 85.7%; Pred. NO. 2.2e+02;
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY      3 LLRREYV 9
Db      216 LLRREYV 222

RESULT 41
US-10-754-115-49
; Sequence 49, Application US/10754115
; Publication No. US20040208907A1
; GENERAL INFORMATION:
; APPLICANT: Hey, Timothy
; APPLICANT: Schleper, Amanda
; APPLICANT: Bevan, Scott
; APPLICANT: Brintim, Scott
; APPLICANT: Mitchell, Jon
; APPLICANT: Li, Ze Sheng
; APPLICANT: Ni, Weiting
; APPLICANT: Zhu, Baolong
; APPLICANT: Merlo, Don
; APPLICANT: Apel-Birkhold, Patricia
; APPLICANT: Meade, Thomas
; TITLE OF INVENTION: Making and Matching TC Proteins for Pest Control
; FILE REFERENCE: DAS-104XC1
; CURRENT APPLICATION NUMBER: US/10/754,115
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; CURRENT FILING DATE: 2004-01-07
; PRIOR APPLICATION NUMBER: US 60/441,723
; PRIOR FILING DATE: 2003-01-21
; NUMBER OF SEQ ID NOS: 64
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 49
; LENGTH: 1506
; TYPE: PRT
; ORGANISM: Xenorhabdus bovienii
US-10-754-115-49

Query Match          75.0%; Score 33; DB 4; Length 1506;
Best Local Similarity 87.5%; Pred. NO. 1.5e+03;
Matches 7; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      2 QQLRREYV 9
Db      891 QLLRSEYV 898

RESULT 42
US-11-020-848-2
; Sequence 2, Application US/11020848
; Publication No. US20050155104A1
; GENERAL INFORMATION:
; APPLICANT: Apel-Birkhold, Patricia
; APPLICANT: Hey, Timothy
; APPLICANT: Sneets, Joel
; APPLICANT: Meade, Tom
; APPLICANT: Li, Ze Sheng
; APPLICANT: Litra, Justin
; APPLICANT: Russell, Sean
; APPLICANT: Thompson, Robin
; APPLICANT: Mitchell, Jon
; APPLICANT: Fencil, Kristin
; TITLE OF INVENTION: Toxin Complex Proteins and Genes from Xenorhabdus bovienii
; FILE REFERENCE: DAS-114XC1
; CURRENT APPLICATION NUMBER: US/11/020,848
; CURRENT FILING DATE: 2004-12-23
; PRIOR APPLICATION NUMBER: US 60/534,893
; PRIOR FILING DATE: 2004-01-07
; NUMBER OF SEQ ID NOS: 11
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 2
; LENGTH: 1506
; TYPE: PRT
; ORGANISM: Xenorhabdus bovienii
US-11-020-848-2

Query Match          75.0%; Score 33; DB 6; Length 1506;
Best Local Similarity 87.5%; Pred. NO. 1.5e+03;
Matches 7; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      2 QQLRREYV 9
Db      891 QLLRSEYV 898

RESULT 43
US-10-424-599-269879
; Sequence 269879, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa Thomas J
; APPLICANT: Kovalic David K
; APPLICANT: Zhou Yihua
; APPLICANT: Cao Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
```

SEQ ID NO 269879
LENGTH: 34
TYPE: PRT
ORGANISM: Glycine max
FEATURE:
OTHER INFORMATION: Clone ID: PAT_MRT3847_85720C.1.pep
US-10-424-599-269879

Query Match 72.7%; Score 32; DB 4; Length 34;
Best Local Similarity 66.7%; Pred. No. 51;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 QQLRRVY 9
| | | | |
Db 16 QQLRRVY 24

RESULT 44
US-10-425-115-252206
Sequence 252206, Application US/10425115
Publication No. US20040214272A1
GENERAL INFORMATION:
APPLICANT: La Rosa, Thomas J.
APPLICANT: Kovalic, David K.
APPLICANT: Zhou, Yihua
APPLICANT: Cao, Yongwei
TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
TITLE OF INVENTION: Plants
FILE REFERENCE: 38-21(53222)B
CURRENT APPLICATION NUMBER: US/10/425,115
CURRENT FILING DATE: 2003-04-28
NUMBER OF SEQ ID NOS: 369326
SEQ ID NO 252206
LENGTH: 48
TYPE: PRT
ORGANISM: Zea mays
FEATURE:
OTHER INFORMATION: Clone ID: MRT4577_161596C.1.pep
US-10-425-115-252206

Query Match 72.7%; Score 32; DB 4; Length 48;
Best Local Similarity 75.0%; Pred. No. 72;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 2 QQLRRVY 9
| | | | |
Db 30 QQLRRVY 37

RESULT 45
US-10-425-115-331363
Sequence 331363, Application US/10425115
Publication No. US20040214272A1
GENERAL INFORMATION:
APPLICANT: La Rosa, Thomas J.
APPLICANT: Kovalic, David K.
APPLICANT: Zhou, Yihua
APPLICANT: Cao, Yongwei
TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
TITLE OF INVENTION: Plants
FILE REFERENCE: 38-21(53222)B
CURRENT APPLICATION NUMBER: US/10/425,115
CURRENT FILING DATE: 2003-04-28
NUMBER OF SEQ ID NOS: 369326
SEQ ID NO 331363
LENGTH: 59
TYPE: PRT
ORGANISM: Zea mays
FEATURE:
OTHER INFORMATION: Clone ID: MRT4577_65306C.1.pep
US-10-425-115-331363

Query Match 72.7%; Score 32; DB 4; Length 59;

Best Local Similarity 75.0%; Pred. No. 89;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 2 QQLRRVY 9
| | | | |
Db 37 QQLRRVY 44

RESULT 46
US-10-425-115-251808
Sequence 251808, Application US/10425115
Publication No. US20040214272A1
GENERAL INFORMATION:
APPLICANT: La Rosa, Thomas J.
APPLICANT: Kovalic, David K.
APPLICANT: Zhou, Yihua
APPLICANT: Cao, Yongwei
TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
TITLE OF INVENTION: Plants
FILE REFERENCE: 38-21(53222)B
CURRENT APPLICATION NUMBER: US/10/425,115
CURRENT FILING DATE: 2003-04-28
NUMBER OF SEQ ID NOS: 369326
SEQ ID NO 251808
LENGTH: 100
TYPE: PRT
ORGANISM: Zea mays
FEATURE:
OTHER INFORMATION: Clone ID: MRT4577_161233C.1.pep
US-10-425-115-251808

Query Match 72.7%; Score 32; DB 4; Length 100;
Best Local Similarity 75.0%; Pred. No. 1.5e+02;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 2 QQLRRVY 9
| | | | |
Db 45 QQLRRVY 52

RESULT 47
US-10-437-963-170284
Sequence 170284, Application US/10437963
Publication No. US20040123343A1
GENERAL INFORMATION:
APPLICANT: La Rosa, Thomas J.
APPLICANT: Kovalic, David K.
APPLICANT: Zhou, Yihua
APPLICANT: Cao, Yongwei
APPLICANT: Wu, Wei
APPLICANT: Boukharov, Andrey A.
APPLICANT: Barbazuk, Brad
APPLICANT: Li, Ping
TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
FILE REFERENCE: 38-21(53221)B
CURRENT APPLICATION NUMBER: US/10/437,963
CURRENT FILING DATE: 2003-05-14
NUMBER OF SEQ ID NOS: 204966
SEQ ID NO 170284
LENGTH: 105
TYPE: PRT
ORGANISM: Oryza sativa
FEATURE:
OTHER INFORMATION: Clone ID: PAT_MRT4530_68625C.1.pep
US-10-437-963-170284

Query Match 72.7%; Score 32; DB 4; Length 105;
Best Local Similarity 75.0%; Pred. No. 1.6e+02;
Matches 6; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 2 QQLRRVY 9
| | | | |

Db 85 QVLRREVY 92

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RESULT 48
US-10-425-114-68311
; Sequence 68311, Application US/10425114
; Publication No. US20040034888A1
; GENERAL INFORMATION:
; APPLICANT: Liu, Jingdong
; APPLICANT: Zhou, Yihua
; APPLICANT: Kovalic, David K.
; APPLICANT: Screen, Steven E
; APPLICANT: Tabaska, Jack E
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(5313)B
; CURRENT APPLICATION NUMBER: US/10/425,114
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 73128
; SEQ ID NO 68311
; LENGTH: 164
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: LIB148-023-D3_FLI.pep
US-10-425-114-68311
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Query Match 72.7%; Score 32; DB 4; Length 164;

Best Local Similarity 66.7%; Pred. No. 2.5e+02;

Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 QQLRREVY 9
Db 44 QQLRROAH 52

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RESULT 49
US-10-425-114-71647
; Sequence 71647, Application US/10425114
; Publication No. US20040034888A1
; GENERAL INFORMATION:
; APPLICANT: Liu, Jingdong
; APPLICANT: Zhou, Yihua
; APPLICANT: Kovalic, David K.
; APPLICANT: Screen, Steven E
; APPLICANT: Tabaska, Jack E
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(5313)B
; CURRENT APPLICATION NUMBER: US/10/425,114
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 73128
; SEQ ID NO 71647
; LENGTH: 171
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: LIB3066-038-C6_FLI.pep
US-10-425-114-71647
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Query Match 72.7%; Score 32; DB 4; Length 171;

Best Local Similarity 66.7%; Pred. No. 2.6e+02;

Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 QQLRREVY 9
Db 44 QQLRROAH 52RESULT 50
US-10-424-599-153165

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; Sequence 153165, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa Thomas J
; APPLICANT: Kovalic David K
; APPLICANT: Zhou Yihua
; APPLICANT: Cao Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 153165
; LENGTH: 419
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_109332C.1.pep
US-10-424-599-153165
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Query Match 72.7%; Score 32; DB 4; Length 419;

Best Local Similarity 66.7%; Pred. No. 6.4e+02;

Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 QQLRREVY 9
Db 127 QQLRREVY 135Search completed: May 5, 2006, 07:55:48
Job time : 66.9 secs

GenCore version 5.1.7
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OM protein - protein search, using sw model

Run on: May 5, 2006, 07:46:05 ; Search time 8.4 Seconds
(without alignments)
49.591 Million cell updates/sec

Title: US-08-170-344-43

Perfect score: 44
Sequence: 1 QOLRLREYV 9

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 235405 seqs, 46284737 residues

Total number of hits satisfying chosen parameters: 235405

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 1000 summaries

Database :

Published Applications AA New: *
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7: /SIDS5/pcodata/1/pubppa/US09_NEW_PUB.pep1.*
8: /SIDS5/pcodata/1/pubppa/US10_NEW_PUB.pep1.*
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11: /SIDS5/pcodata/1/pubppa/US11_NEW_PUB.pep1.*
12: /SIDS5/pcodata/1/pubppa/US60_NEW_PUB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	% Match	Query Length	ID	Description
1	44	100.0	151	9	US-10-530-253-13
2	44	100.0	158	11	US-11-206-138-3
3	44	100.0	248	9	US-10-530-253-1
4	44	100.0	248	9	US-10-530-253-3
5	44	100.0	248	9	US-10-530-253-7
6	44	100.0	248	9	US-10-530-253-9
7	44	100.0	248	9	US-10-530-253-11
8	44	100.0	256	11	US-11-192-923A-2
9	44	100.0	256	11	US-11-192-923A-2
10	33	75.0	751	11	US-11-051-720-1497
11	33	75.0	751	11	US-11-051-720-1499
12	33	75.0	784	11	US-11-051-720-1496
13	33	75.0	784	11	US-11-051-720-1498
14	33	75.0	868	11	US-11-051-720-1494
15	33	75.0	901	11	US-11-051-720-1495
16	32	72.7	478	11	US-11-079-463-8301
17	32	72.7	554	11	US-11-098-686-11102
18	32	72.7	4868	11	US-11-044-111-24
19	31	70.5	148	9	US-10-530-253-22
20	31	70.5	642	11	US-11-098-686-10457
21	31	70.5	696	11	US-11-188-298-15554

22	31	70.5	1381	9	US-10-467-657-178	Sequence 178, App
23	31	70.5	1381	9	US-10-467-657-178	Sequence 3726, Ap
24	30	68.2	134	11	US-11-172-740-1261	Sequence 1261, Ap
25	30	68.2	300	11	US-11-188-298-6991	Sequence 6991, Ap
26	30	68.2	307	11	US-11-172-740-1253	Sequence 1253, Ap
27	30	68.2	307	11	US-11-172-740-1257	Sequence 1257, Ap
28	30	68.2	307	11	US-11-172-740-1258	Sequence 1258, Ap
29	30	68.2	322	9	US-10-793-626-586	Sequence 586, App
30	30	68.2	322	9	US-10-793-626-586	Sequence 984, App
31	30	68.2	426	11	US-11-096-568A-28439	Sequence 28439, A
32	30	68.2	472	11	US-11-096-568A-28438	Sequence 28438, A
33	30	68.2	579	9	US-10-501-841-107	Sequence 107, App
34	30	68.2	730	11	US-11-096-568A-28437	Sequence 28437, A
35	30	68.2	1445	11	US-11-079-463-8667	Sequence 8667, Ap
36	29	65.9	136	11	US-11-079-463-5273	Sequence 5273, Ap
37	29	65.9	149	9	US-10-530-253-18	Sequence 18, App1
38	29	65.9	285	11	US-11-045-004-1392	Sequence 1392, Ap
39	29	65.9	322	11	US-11-188-298-8666	Sequence 8666, Ap
40	29	65.9	431	11	US-11-188-298-18584	Sequence 18584, A
41	29	65.9	463	11	US-11-045-004-2771	Sequence 2771, Ap
42	29	65.9	489	9	US-10-537-075-11	Sequence 11, App1
43	29	65.9	643	11	US-11-087-099-5526	Sequence 5526, Ap
44	28	63.6	84	11	US-11-096-568A-3609	Sequence 3609, Ap
45	28	63.6	112	11	US-11-096-568A-3608	Sequence 3608, Ap
46	28	63.6	116	11	US-11-079-463-10119	Sequence 10119, A
47	28	63.6	117	11	US-11-096-568A-1014	Sequence 1014, Ap
48	28	63.6	150	11	US-11-096-568A-1013	Sequence 1013, Ap
49	28	63.6	158	9	US-10-530-253-26	Sequence 26, App1
50	28	63.6	204	11	US-11-096-568A-1012	Sequence 1012, Ap
51	28	63.6	228	11	US-11-096-568A-16734	Sequence 16734, A
52	28	63.6	251	11	US-11-087-099-5769	Sequence 5769, Ap
53	28	63.6	251	11	US-11-087-099-5769	Sequence 1827, A
54	28	63.6	251	11	US-11-087-099-5769	Sequence 1827, A
55	28	63.6	285	11	US-11-096-568A-16732	Sequence 16732, A
56	28	63.6	307	11	US-11-172-740-1255	Sequence 1255, Ap
57	28	63.6	309	11	US-11-172-740-1256	Sequence 1256, Ap
58	28	63.6	313	11	US-11-096-568A-20277	Sequence 20277, A
59	28	63.6	313	11	US-11-087-099-3451	Sequence 3451, Ap
60	28	63.6	314	11	US-11-096-568A-20276	Sequence 20276, A
61	28	63.6	322	11	US-11-096-568A-14661	Sequence 14661, A
62	28	63.6	325	11	US-11-087-099-12318	Sequence 12318, A
63	28	63.6	340	11	US-11-188-298-18110	Sequence 18110, A
64	28	63.6	346	11	US-11-229-371-73	Sequence 73, App1
65	28	63.6	346	11	US-11-228-923-73	Sequence 73, App1
66	28	63.6	346	11	US-11-228-923-73	Sequence 8674, Ap
67	28	63.6	346	11	US-11-228-923-73	Sequence 12672, A
68	28	63.6	346	11	US-11-228-923-73	Sequence 13901, A
69	28	63.6	346	11	US-11-228-923-73	Sequence 13901, A
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78	28	63.6	346	11	US-11-228-923-73	Sequence 13901, A
79	28	63.6	346	11	US-11-228-923-73	Sequence 13901, A
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87	28	63.6	346	11	US-11-228-923-73	Sequence 13901, A
88	28	63.6	346	11	US-11-228-923-73	Sequence 13901, A
89	28	63.6	346	11	US-11-228-923-73	Sequence 13901, A
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91	28	63.6	346	11	US-11-228-923-73	Sequence 13901, A
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94	28	63.6	346	11	US-11-228-923-73	Sequence 13901, A

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97	28	63.6	1731	9	US-10-915-002-176	Sequence 176, App	170	27	61.4	761	11	US-11-188-298-12759	Sequence 12759, A
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99	28	63.6	1731	9	US-10-915-002-211	Sequence 211, App	172	27	61.4	780	11	US-11-188-298-1035	Sequence 1035, App
100	28	63.6	1731	9	US-10-915-002-222	Sequence 222, App	173	27	61.4	820	11	US-11-045-004-1661	Sequence 1661, App
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102	27	61.4	75	9	US-10-469-469-174	Sequence 174, App	175	27	61.4	825	8	US-10-511-937-3001	Sequence 3001, App
103	27	61.4	144	8	US-10-505-928-628	Sequence 628, App	176	27	61.4	825	9	US-10-995-561-679	Sequence 679, App
104	27	61.4	165	9	US-10-793-626-844	Sequence 844, App	177	27	61.4	825	11	US-11-124-367A-469	Sequence 469, App
105	27	61.4	169	11	US-11-144-947-354	Sequence 354, App	178	27	61.4	827	9	US-10-534-894-2	Sequence 2, App1
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107	27	61.4	195	10	US-10-902-137-9	Sequence 9, App1	180	27	61.4	950	11	US-11-087-099-4822	Sequence 4822, App
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109	27	61.4	204	9	US-10-902-137-2	Sequence 2, App1	182	27	61.4	1066	8	US-10-511-455-2	Sequence 2, App1
110	27	61.4	221	11	US-11-188-298-16485	Sequence 16485, A	183	27	61.4	1076	9	US-10-902-137-6	Sequence 6, App1
111	27	61.4	240	11	US-11-232-440-29	Sequence 29, App1	184	27	61.4	1119	11	US-11-115-633-1	Sequence 1, App1
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114	27	61.4	274	8	US-10-511-937-2546	Sequence 2546, App	187	26	59.1	15	9	US-10-530-061-1692	Sequence 1692, App
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117	27	61.4	286	11	US-11-188-298-16264	Sequence 16264, A	190	26	59.1	104	11	US-11-172-740-1618	Sequence 1618, App
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123	27	61.4	351	9	US-10-506-454-1314	Sequence 1314, App	196	26	59.1	177	11	US-11-110-086-26	Sequence 26, App1
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128	27	61.4	403	9	US-10-501-035-252	Sequence 252, App	201	26	59.1	209	11	US-11-079-463-10223	Sequence 10223, A
129	27	61.4	409	11	US-11-098-686-10892	Sequence 10892, A	202	26	59.1	217	11	US-11-096-568A-615	Sequence 615, App
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132	27	61.4	422	11	US-11-188-298-18900	Sequence 18900, A	205	26	59.1	230	9	US-10-506-454-1064	Sequence 1064, App
133	27	61.4	427	11	US-11-188-298-16182	Sequence 16182, A	206	26	59.1	232	11	US-11-296-044-4	Sequence 4, App1
134	27	61.4	431	11	US-11-188-298-3818	Sequence 3818, App	207	26	59.1	241	11	US-11-084-647-5	Sequence 5, App1
135	27	61.4	431	11	US-11-188-298-20784	Sequence 20784, A	208	26	59.1	242	11	US-11-074-176-278	Sequence 278, App
136	27	61.4	442	11	US-11-188-298-2138	Sequence 2138, App	209	26	59.1	244	9	US-10-915-002-349	Sequence 349, App
137	27	61.4	446	11	US-11-055-822-96	Sequence 96, App1	210	26	59.1	250	11	US-11-096-568A-3443	Sequence 3443, App
138	27	61.4	446	11	US-11-098-686-10551	Sequence 10531, A	211	26	59.1	254	9	US-10-742-634-11	Sequence 11, App1
139	27	61.4	446	11	US-11-087-099-8235	Sequence 8235, App	212	26	59.1	258	11	US-11-054-515-3239	Sequence 3239, App
140	27	61.4	446	11	US-11-188-298-7614	Sequence 7614, App	213	26	59.1	260	11	US-11-084-647-6	Sequence 6, App1
141	27	61.4	446	11	US-11-188-298-19972	Sequence 19972, A	214	26	59.1	260	11	US-11-136-079-3	Sequence 3, App1
142	27	61.4	447	11	US-11-087-099-10905	Sequence 10905, A	215	26	59.1	260	11	US-11-242-294-4	Sequence 4, App1
143	27	61.4	447	11	US-11-188-298-21077	Sequence 21077, A	216	26	59.1	260	11	US-11-096-568A-21169	Sequence 21169, A
144	27	61.4	448	11	US-11-196-710-9	Sequence 9, App1	217	26	59.1	260	11	US-11-266-444-3239	Sequence 3239, App
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146	27	61.4	470	11	US-11-096-568A-29970	Sequence 29970, A	219	26	59.1	260	11	US-11-296-044-2	Sequence 2, App1
147	27	61.4	474	11	US-11-188-298-20320	Sequence 20320, A	220	26	59.1	266	9	US-10-506-454-1494	Sequence 1494, App
148	27	61.4	483	11	US-11-096-568A-18679	Sequence 18679, A	221	26	59.1	266	11	US-11-096-568A-19639	Sequence 19639, A
149	27	61.4	496	11	US-11-096-568A-10537	Sequence 10537, A	222	26	59.1	262	11	US-11-096-568A-3442	Sequence 3442, App
150	27	61.4	516	11	US-11-188-298-22250	Sequence 22250, A	223	26	59.1	276	11	US-11-096-568A-4852	Sequence 4852, App
151	27	61.4	532	11	US-11-079-463-9519	Sequence 9519, App	224	26	59.1	287	11	US-11-072-512-2891	Sequence 2891, App
152	27	61.4	543	11	US-11-106-672A-10	Sequence 10, App1	225	26	59.1	304	11	US-11-096-568A-19361	Sequence 19361, App
153	27	61.4	543	11	US-11-057-732-6	Sequence 6, App1	226	26	59.1	306	11	US-11-096-568A-12071	Sequence 12071, A
154	27	61.4	543	11	US-11-154-805A-5	Sequence 5, App1	227	26	59.1	313	9	US-10-873-528-73	Sequence 73, App1
155	27	61.4	544	11	US-11-096-568A-18678	Sequence 18678, A	228	26	59.1	334	11	US-11-188-298-16849	Sequence 16849, A
156	27	61.4	548	9	US-10-501-035-217	Sequence 217, App	229	26	59.1	339	11	US-11-087-099-10538	Sequence 10538, A
157	27	61.4	565	11	US-11-096-568A-18677	Sequence 18677, A	230	26	59.1	360	11	US-11-188-298-21749	Sequence 21749, A
158	27	61.4	570	8	US-10-511-937-2612	Sequence 2612, App	231	26	59.1	368	11	US-11-079-463-6649	Sequence 6649, App
159	27	61.4	583	11	US-11-096-568A-30651	Sequence 30651, A	232	26	59.1	372	11	US-11-197-133A-14	Sequence 14, App1
160	27	61.4	592	11	US-11-106-672A-14	Sequence 14, App1	233	26	59.1	385	11	US-11-139-425-2	Sequence 2, App1
161	27	61.4	685	11	US-11-096-568A-30650	Sequence 30650, A	234	26	59.1	385	11	US-11-172-740-243	Sequence 243, App
162	27	61.4	716	11	US-11-079-463-7186	Sequence 7186, App	235	26	59.1	392	11	US-11-079-463-8081	Sequence 8081, App
163	27	61.4	721	11	US-11-186-284-67	Sequence 67, App1	236	26	59.1	417	11	US-11-096-568A-17972	Sequence 17972, A
164	27	61.4	742	11	US-11-188-298-4229	Sequence 4229, App	237	26	59.1	417	11	US-11-079-463-8036	Sequence 8036, App
165	27	61.4	748	11	US-11-188-298-4217	Sequence 4217, App	238	26	59.1	419	9	US-10-467-9628-69	Sequence 69, App1
166	27	61.4	756	11	US-11-096-568A-30649	Sequence 30649, A	239	26	59.1	422	11	US-11-079-463-6706	Sequence 6706, App
167	27	61.4	758	11	US-11-188-298-10348	Sequence 10348, A	240	26	59.1	423	9	US-10-506-454-1080	Sequence 1080, App

241	26	59.1	424	11	US-11-188-298-15004	Sequence 15004, A	314	25	56.8	37	11	US-11-264-096-1067	Sequence 1067, Ap
242	26	59.1	436	11	US-11-096-568A-17971	Sequence 17971, A	315	25	56.8	45	11	US-11-174-341-126	Sequence 124, App
243	26	59.1	438	9	US-10-877-346-57	Sequence 57, Appl	316	25	56.8	42	11	US-11-174-341-126	Sequence 126, App
244	26	59.1	438	11	US-11-079-463-6990	Sequence 6990, Ap	317	25	56.8	62	11	US-11-264-096-1068	Sequence 1068, Ap
245	26	59.1	449	11	US-11-087-099-11175	Sequence 11175, A	318	25	56.8	95	11	US-11-096-568A-15646	Sequence 15646, A
246	26	59.1	452	11	US-11-096-568A-11970	Sequence 11970, A	319	25	56.8	108	9	US-10-925-366A-147	Sequence 147, App
247	26	59.1	454	11	US-11-096-568A-7150	Sequence 7150, Ap	320	25	56.8	108	11	US-11-098-759-1147	Sequence 1147, App
248	26	59.1	462	11	US-11-087-099-12028	Sequence 12028, A	321	25	56.8	109	11	US-11-096-568A-15645	Sequence 15645, A
249	26	59.1	462	11	US-11-188-298-22172	Sequence 22172, A	322	25	56.8	115	11	US-11-188-298-7716	Sequence 7716, Ap
250	26	59.1	474	11	US-11-188-298-11992	Sequence 11992, A	323	25	56.8	121	11	US-11-045-004-2193	Sequence 2193, Ap
251	26	59.1	476	11	US-11-087-099-2513	Sequence 2513, Ap	324	25	56.8	152	11	US-11-096-568A-15644	Sequence 15644, A
252	26	59.1	486	11	US-11-188-298-11290	Sequence 11290, A	325	25	56.8	154	11	US-11-079-463-7764	Sequence 7764, Ap
253	26	59.1	491	8	US-10-511-937-2522	Sequence 2522, Ap	326	25	56.8	160	11	US-11-096-568A-25257	Sequence 25257, A
254	26	59.1	491	8	US-10-511-937-2523	Sequence 2523, Ap	327	25	56.8	166	11	US-11-096-568A-14493	Sequence 14493, A
255	26	59.1	491	8	US-10-511-937-2526	Sequence 2526, Ap	328	25	56.8	167	11	US-11-096-568A-33532	Sequence 33532, A
256	26	59.1	491	8	US-10-511-937-2527	Sequence 2527, Ap	329	25	56.8	168	11	US-11-096-568A-19414	Sequence 19414, A
257	26	59.1	491	11	US-11-087-099-10555	Sequence 10555, A	330	25	56.8	176	11	US-11-096-568A-19414	Sequence 19414, A
258	26	59.1	493	11	US-11-096-568A-7667	Sequence 7667, Ap	331	25	56.8	181	11	US-11-072-512-2558	Sequence 2558, A
259	26	59.1	494	11	US-11-096-568A-7119	Sequence 7119, Ap	332	25	56.8	187	11	US-11-072-512-2558	Sequence 2558, Ap
260	26	59.1	497	11	US-11-087-099-4483	Sequence 4483, Ap	333	25	56.8	189	11	US-11-072-512-2558	Sequence 2558, Ap
261	26	59.1	502	11	US-11-072-512-3860	Sequence 3860, Ap	334	25	56.8	191	11	US-11-072-512-2558	Sequence 2558, Ap
262	26	59.1	503	9	US-10-784-004-723	Sequence 723, App	335	25	56.8	193	11	US-11-072-512-2558	Sequence 2558, Ap
263	26	59.1	512	11	US-11-096-568A-7118	Sequence 7118, Ap	336	25	56.8	196	11	US-11-096-568A-14619	Sequence 14619, A
264	26	59.1	520	11	US-11-096-568A-7666	Sequence 7666, Ap	337	25	56.8	199	9	US-10-467-657-8058	Sequence 8058, Ap
265	26	59.1	547	11	US-11-087-099-10512	Sequence 10512, A	338	25	56.8	208	11	US-11-096-568A-19413	Sequence 19413, A
266	26	59.1	547	11	US-11-087-099-10512	Sequence 10512, A	339	25	56.8	223	11	US-11-072-512-2793	Sequence 2793, Ap
267	26	59.1	561	9	US-10-467-033-2	Sequence 2, Appl1	340	25	56.8	225	9	US-10-454-437-144	Sequence 144, App
268	26	59.1	561	9	US-10-467-033-6	Sequence 397, App	341	25	56.8	225	11	US-11-096-568A-19412	Sequence 19412, A
269	26	59.1	589	9	US-10-784-004-392	Sequence 402, App	342	25	56.8	229	11	US-11-096-568A-15311	Sequence 15311, A
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271	26	59.1	589	11	US-11-188-298-5949	Sequence 5949, Ap	344	25	56.8	231	11	US-11-188-298-9564	Sequence 9564, Ap
272	26	59.1	589	11	US-11-188-298-8319	Sequence 8319, Ap	345	25	56.8	233	11	US-11-098-686-10787	Sequence 10787, A
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274	26	59.1	594	11	US-11-072-512-3281	Sequence 3281, Ap	347	25	56.8	238	11	US-11-079-463-7793	Sequence 7793, Ap
275	26	59.1	614	11	US-11-087-099-9681	Sequence 9681, Ap	348	25	56.8	249	11	US-11-045-004-1262	Sequence 1262, Ap
276	26	59.1	635	11	US-11-188-298-18095	Sequence 18095, A	349	25	56.8	239	11	US-11-072-512-3232	Sequence 3232, Ap
277	26	59.1	650	9	US-10-821-234-1286	Sequence 95, Appl	350	25	56.8	246	11	US-11-096-568A-18500	Sequence 18500, A
278	26	59.1	653	9	US-10-821-234-1286	Sequence 1286, Ap	351	25	56.8	246	11	US-11-096-568A-18500	Sequence 18500, A
279	26	59.1	653	11	US-11-227-543-23	Sequence 23, Appl	352	25	56.8	252	11	US-11-096-568A-18500	Sequence 18500, A
280	26	59.1	654	9	US-10-784-004-1171	Sequence 1171, Ap	353	25	56.8	263	11	US-11-079-463-6852	Sequence 6852, Ap
281	26	59.1	654	9	US-10-784-004-1219	Sequence 1219, Ap	354	25	56.8	287	11	US-11-060-295-5	Sequence 5, Appl1
282	26	59.1	657	11	US-11-110-082-97	Sequence 37, Appl	355	25	56.8	288	9	US-10-203-486-7	Sequence 7, Appl1
283	26	59.1	682	11	US-11-188-298-21056	Sequence 21056, A	356	25	56.8	293	11	US-11-045-004-2841	Sequence 2841, Ap
284	26	59.1	691	11	US-11-098-686-10183	Sequence 10183, A	357	25	56.8	295	11	US-11-204-187-4	Sequence 4, Appl1
285	26	59.1	692	11	US-11-188-298-11563	Sequence 11563, A	358	25	56.8	295	11	US-11-205-662-4	Sequence 4, Appl1
286	26	59.1	693	11	US-11-188-298-3503	Sequence 3503, Ap	359	25	56.8	296	9	US-10-525-907-52	Sequence 52, Appl
287	26	59.1	694	11	US-11-087-099-566	Sequence 566, App	360	25	56.8	297	11	US-11-188-298-4462	Sequence 4462, Ap
288	26	59.1	711	9	US-10-506-454-1109	Sequence 1309, Ap	361	25	56.8	299	11	US-11-188-298-21090	Sequence 21090, A
289	26	59.1	755	11	US-11-188-298-8273	Sequence 8273, Ap	362	25	56.8	306	11	US-11-188-298-11930	Sequence 11930, A
290	26	59.1	757	11	US-11-072-512-2773	Sequence 2773, Ap	363	25	56.8	307	11	US-11-098-686-11160	Sequence 11160, A
291	26	59.1	757	11	US-11-188-298-3376	Sequence 3376, Ap	364	25	56.8	308	11	US-11-096-568A-20980	Sequence 20980, A
292	26	59.1	757	11	US-11-188-298-6004	Sequence 6004, Ap	365	25	56.8	309	9	US-10-793-626-936	Sequence 936, App
293	26	59.1	757	11	US-11-188-298-10303	Sequence 10303, A	366	25	56.8	312	11	US-11-079-463-10394	Sequence 10394, A
294	26	59.1	798	11	US-11-110-082-39	Sequence 39, Appl	367	25	56.8	313	11	US-11-188-298-749	Sequence 749, App
295	26	59.1	908	11	US-11-019-711-4	Sequence 4, Appl1	368	25	56.8	316	11	US-11-087-099-2812	Sequence 2812, Ap
296	26	59.1	953	11	US-11-019-711-50	Sequence 50, Appl1	369	25	56.8	318	11	US-11-188-298-2033	Sequence 2033, A
297	26	59.1	1035	11	US-11-087-099-5013	Sequence 5013, Ap	370	25	56.8	322	11	US-11-188-298-8889	Sequence 8889, Ap
298	26	59.1	1063	11	US-11-188-298-14920	Sequence 14920, A	371	25	56.8	322	11	US-11-188-298-8889	Sequence 8889, Ap
299	26	59.1	1152	11	US-11-079-463-10027	Sequence 10027, A	372	25	56.8	327	11	US-11-152-811-5	Sequence 5, Appl1
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302	26	59.1	1640	11	US-11-019-711-8	Sequence 8, Appl1	375	25	56.8	330	11	US-11-188-298-14629	Sequence 14629, A
303	26	59.1	1645	8	US-10-505-928-582	Sequence 582, App	376	25	56.8	331	11	US-11-096-568A-23791	Sequence 23791, A
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307	26	59.1	3597	11	US-11-019-711-2	Sequence 2, Appl1	380	25	56.8	338	11	US-11-087-099-8129	Sequence 8129, Ap
308	26	59.1	3690	9	US-10-995-561-1016	Sequence 1016, Ap	381	25	56.8	343	11	US-11-045-004-1059	Sequence 1059, Ap
309	26	59.1	3714	9	US-10-995-561-1015	Sequence 1015, Ap	382	25	56.8	344	11	US-11-096-568A-33947	Sequence 33947, A
310	26	59.1	3717	9	US-10-821-234-1076	Sequence 1076, Ap	383	25	56.8	345	11	US-11-096-568A-33947	Sequence 33947, A
311	26	58.0	484	11	US-11-222-641-6	Sequence 6, Appl1	384	25	56.8	348	11	US-11-096-568A-20979	Sequence 20979, A
312	25.5	58.0	484	11	US-11-222-641-6	Sequence 33, Appl1	385	25	56.8	356	11	US-11-188-298-11934	Sequence 11934, A
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395	25	56.8	368	11	US-11-096-568A-20978	Sequence 20978, App	468	25	56.8	567	11	US-11-127-817-16	Sequence 16, Appl
396	25	56.8	374	11	US-11-096-568A-34371	Sequence 34371, A	469	25	56.8	582	11	US-11-188-298-16519	Sequence 16519, App
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399	25	56.8	380	11	US-11-188-298-22293	Sequence 22293, A	472	25	56.8	585	11	US-11-096-568A-24610	Sequence 24610, A
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403	25	56.8	387	11	US-11-188-298-2060	Sequence 2060, Ap	476	25	56.8	607	11	US-11-096-568A-34370	Sequence 34370, A
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405	25	56.8	387	11	US-11-188-298-6116	Sequence 6116, Ap	478	25	56.8	608	11	US-11-241-347-8	Sequence 8, Appl
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412	25	56.8	388	11	US-11-188-298-20366	Sequence 20366, A	485	25	56.8	700	11	US-11-188-298-16084	Sequence 16084, A
413	25	56.8	388	11	US-11-188-298-9331	Sequence 9331, Ap	486	25	56.8	730	11	US-11-188-298-16084	Sequence 17003, A
414	25	56.8	389	11	US-11-188-298-738	Sequence 738, App	487	25	56.8	743	11	US-11-188-298-17003	Sequence 34389, A
415	25	56.8	396	9	US-10-667-295-89	Sequence 89, Appl	488	25	56.8	748	11	US-11-096-568A-34369	Sequence 86, Appl
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419	25	56.8	415	11	US-11-188-298-3516	Sequence 3516, Ap	492	25	56.8	759	11	US-11-188-298-18431	Sequence 18431, A
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422	25	56.8	423	11	US-11-110-851-2	Sequence 2, Appl	495	25	56.8	782	9	US-10-972-053-8	Sequence 2, Appl
423	25	56.8	432	11	US-11-188-298-17240	Sequence 17240, A	496	25	56.8	782	9	US-10-972-053-8	Sequence 8, Appl
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425	25	56.8	441	11	US-11-172-740-512	Sequence 512, App	498	25	56.8	788	9	US-10-505-263-85	Sequence 85, Appl
426	25	56.8	441	11	US-11-172-740-465	Sequence 465, App	499	25	56.8	791	9	US-10-972-053-4	Sequence 4, Appl
427	25	56.8	445	11	US-11-172-740-708	Sequence 708, App	500	25	56.8	792	9	US-10-972-053-12	Sequence 12, Appl
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430	25	56.8	449	11	US-11-096-568A-15309	Sequence 15309, A	503	25	56.8	801	9	US-10-453-372-468	Sequence 468, App
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434	25	56.8	459	11	US-11-087-099-3444	Sequence 3444, Ap	507	25	56.8	826	11	US-11-288-720-190	Sequence 190, Appl
435	25	56.8	461	11	US-11-087-099-3358	Sequence 3358, Ap	508	25	56.8	840	11	US-11-207-078-190	Sequence 190, Appl
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438	25	56.8	463	11	US-11-188-298-1017	Sequence 1017, Ap	511	25	56.8	858	9	US-10-995-561-875	Sequence 875, App
439	25	56.8	466	11	US-11-096-568A-22805	Sequence 22805, A	512	25	56.8	859	11	US-11-000-463-423	Sequence 423, App
440	25	56.8	467	9	US-10-506-454-109	Sequence 109, App	513	25	56.8	859	11	US-11-000-463-895	Sequence 895, App
441	25	56.8	469	11	US-11-188-298-10859	Sequence 10859, A	514	25	56.8	893	9	US-11-207-078-221	Sequence 221, App
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443	25	56.8	473	11	US-11-188-298-15657	Sequence 15657, A	516	25	56.8	932	11	US-11-188-298-31983	Sequence 31983, A
444	25	56.8	474	11	US-11-188-298-18565	Sequence 18565, A	517	25	56.8	999	11	US-11-096-568A-14691	Sequence 14691, A
445	25	56.8	475	11	US-11-096-568A-30829	Sequence 30829, A	518	25	56.8	1004	9	US-10-204-639-18	Sequence 18, Appl
446	25	56.8	477	11	US-11-096-568A-30828	Sequence 30828, A	519	25	56.8	1011	11	US-11-069-618-111	Sequence 111, Appl
447	25	56.8	479	9	US-10-517-939-250	Sequence 250, App	520	25	56.8	1018	11	US-11-078-915-21	Sequence 21, Appl
448	25	56.8	480	11	US-11-144-947-405	Sequence 405, App	521	25	56.8	1147	9	US-10-330-773-190	Sequence 190, App
449	25	56.8	482	11	US-11-188-298-21869	Sequence 21869, A	522	25	56.8	1203	11	US-11-154-227-103	Sequence 103, App
450	25	56.8	485	9	US-10-204-029-7	Sequence 7, Appl	523	25	56.8	1206	9	US-10-995-561-709	Sequence 709, App
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453	25	56.8	494	8	US-10-505-928-617	Sequence 617, App	526	25	56.8	1307	9	US-10-995-561-711	Sequence 711, App
454	25	56.8	505	11	US-11-172-740-404	Sequence 404, App	527	25	56.8	1463	11	US-11-096-568A-14692	Sequence 14692, A
455	25	56.8	508	9	US-10-934-944-238	Sequence 238, App	528	25	56.8	1473	11	US-11-096-568A-14691	Sequence 14691, A
456	25	56.8	508	11	US-11-116-881A-247	Sequence 247, App	529	25	56.8	1479	11	US-11-096-568A-14690	Sequence 14690, A
457	25	56.8	518	11	US-11-096-568A-24612	Sequence 24612, A	530	25	56.8	1530	9	US-10-240-771A-2	Sequence 2, Appl
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536	25	56.8	2455	11	US-11-186-999-14	Sequence 14, Appl1
537	25	56.8	2455	11	US-11-186-999-16	Sequence 16, Appl1
538	25	56.8	2456	11	US-11-186-999-10	Sequence 10, Appl1
539	25	56.8	2456	11	US-11-186-999-10	Sequence 10, Appl1
540	25	56.8	2458	11	US-11-186-999-6	Sequence 6, Appl1
541	25	56.8	2458	11	US-11-186-999-11	Sequence 11, Appl1
542	25	56.8	2458	11	US-11-186-999-13	Sequence 13, Appl1
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546	24	54.5	10	11	US-11-129-741-2244	Sequence 1603, Ap
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549	24	54.5	23	11	US-11-236-657-225	Sequence 2419, Ap
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551	24	54.5	36	9	US-10-485-517-138	Sequence 2398, Ap
552	24	54.5	44	9	US-10-467-657-2398	Sequence 1185, Ap
553	24	54.5	77	9	US-10-506-454-1185	Sequence 221, Ap
554	24	54.5	87	11	US-11-226-657-221	Sequence 2091, Ap
555	24	54.5	89	11	US-11-264-096-2091	Sequence 8063, Ap
556	24	54.5	106	11	US-11-079-463-8063	Sequence 226, Ap
557	24	54.5	112	9	US-10-667-295-226	Sequence 16035, A
558	24	54.5	112	11	US-11-079-463-8077	Sequence 8077, Ap
559	24	54.5	113	11	US-10-467-657-3712	Sequence 3712, Ap
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561	24	54.5	121	11	US-11-188-298-12895	Sequence 3014, Ap
562	24	54.5	121	11	US-11-072-512-3014	Sequence 787, Ap
563	24	54.5	122	11	US-11-264-096-2090	Sequence 2090, Ap
564	24	54.5	127	11	US-10-667-295-17	Sequence 17, Appl1
565	24	54.5	134	9	US-10-501-035-378	Sequence 378, Ap
566	24	54.5	135	9	US-10-475-075-814	Sequence 814, Ap
567	24	54.5	137	9	US-11-098-686-10643	Sequence 10643, A
568	24	54.5	140	11	US-11-188-298-19159	Sequence 224, Ap
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570	24	54.5	147	11	US-10-454-437-224	Sequence 2467, Ap
571	24	54.5	147	11	US-11-079-463-8085	Sequence 8085, Ap
572	24	54.5	152	9	US-10-467-657-2466	Sequence 2330, Ap
573	24	54.5	152	9	US-10-530-253-39	Sequence 823, Ap
574	24	54.5	152	11	US-11-096-568A-21013	Sequence 4533, Ap
575	24	54.5	153	11	US-11-188-298-14252	Sequence 3672, Ap
576	24	54.5	153	11	US-11-264-096-718	Sequence 18888, A
577	24	54.5	154	11	US-11-096-568A-20768	Sequence 4, Appl1
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579	24	54.5	161	11	US-11-079-463-8085	Sequence 2330, Ap
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581	24	54.5	163	9	US-10-506-454-823	Sequence 4533, Ap
582	24	54.5	166	11	US-11-188-298-4533	Sequence 3672, Ap
583	24	54.5	170	11	US-11-087-099-3672	Sequence 18888, A
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585	24	54.5	178	11	US-11-188-298-4541	Sequence 3052, Ap
586	24	54.5	179	9	US-10-793-626-3052	Sequence 10656, A
587	24	54.5	179	11	US-11-188-298-10656	Sequence 17744, A
588	24	54.5	180	11	US-11-096-568A-17744	Sequence 9060, Ap
589	24	54.5	184	11	US-11-087-099-9060	Sequence 5960, Ap
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591	24	54.5	196	11	US-11-188-298-20164	Sequence 15411, A
592	24	54.5	197	11	US-11-096-568A-15411	Sequence 7116, Ap
593	24	54.5	199	11	US-11-079-463-7116	Sequence 31995, A
594	24	54.5	200	11	US-11-096-568A-31995	Sequence 350, Ap
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596	24	54.5	205	11	US-11-165-067A-47	Sequence 20767, A
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612	24	54.5	246	11	US-11-079-463-8152	Sequence 8152, Ap
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615	24	54.5	251	11	US-11-087-099-8974	Sequence 9389, Ap
616	24	54.5	251	11	US-11-087-099-9389	Sequence 15409, A
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622	24	54.5	256	11	US-11-172-740-479	Sequence 7545, Ap
623	24	54.5	256	11	US-11-079-463-7545	Sequence 8595, Ap
624	24	54.5	256	11	US-11-079-463-8595	Sequence 149, Ap
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697	24	54.5	371	11	US-11-188-298-6575	Sequence 6575, Ap	770	24	54.5	489	9	US-10-242-902-42	Sequence 42, Appl1
698	24	54.5	371	11	US-11-188-298-7294	Sequence 7294, Ap	771	24	54.5	489	9	US-10-243-136-42	Sequence 42, Appl1
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704	24	54.5	384	11	US-11-079-463-7275	Sequence 7275, Ap	777	24	54.5	489	9	US-10-243-304-42	Sequence 42, Appl1
705	24	54.5	386	11	US-11-098-686-10223	Sequence 10223, A	778	24	54.5	489	9	US-10-243-338-42	Sequence 42, Appl1
706	24	54.5	387	11	US-11-098-686-10223	Sequence 10223, A	779	24	54.5	489	9	US-10-243-345-42	Sequence 42, Appl1
707	24	54.5	387	11	US-11-188-298-3125	Sequence 3125, Ap	780	24	54.5	489	9	US-10-243-357-42	Sequence 42, Appl1
708	24	54.5	388	11	US-11-079-463-6897	Sequence 6897, Ap	781	24	54.5	489	9	US-10-245-083-42	Sequence 42, Appl1
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713	24	54.5	397	11	US-11-096-568A-30077	Sequence 30077, A	786	24	54.5	495	11	US-11-124-367A-349	Sequence 349, App
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716	24	54.5	406	11	US-11-079-463-8062	Sequence 8062, Ap	789	24	54.5	496	11	US-11-188-298-10123	Sequence 10123, A
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726	24	54.5	414	11	US-11-096-568A-24541	Sequence 24541, A	799	24	54.5	506	11	US-11-124-701-15	Sequence 15, Appl1
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739	24	54.5	444	11	US-11-045-004-394	Sequence 394, App	812	24	54.5	528	9	US-10-511-538-255	Sequence 255, App
740	24	54.5	445	11	US-11-172-740-467	Sequence 467, App	813	24	54.5	529	9	US-10-242-586-10	Sequence 10, Appl1
741	24	54.5	445	11	US-11-172-740-715	Sequence 715, App	814	24	54.5	529	9	US-10-242-902-10	Sequence 10, Appl1
742	24	54.5	450	8	US-10-489-730-4	Sequence 4, Appl1	815	24	54.5	529	9	US-10-243-116-10	Sequence 10, Appl1
743	24	54.5	451	9	US-10-770-726-79	Sequence 79, Appl1	816	24	54.5	529	9	US-10-243-136-10	Sequence 10, Appl1
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745	24	54.5	462	11	US-11-188-298-8254	Sequence 8254, Ap	818	24	54.5	529	9	US-10-243-215-10	Sequence 10, Appl1
746	24	54.5	464	11	US-11-188-298-8888	Sequence 8888, Ap	819	24	54.5	529	9	US-10-243-336-10	Sequence 10, Appl1
747	24	54.5	465	9	US-10-793-626-2726	Sequence 2726, Ap	820	24	54.5	529	9	US-10-243-304-10	Sequence 10, Appl1
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827	24	54.5	531	11	US-11-087-099-7252	Sequence 7252, Ap	900	24	54.5	673	11	US-11-058-727-26	Sequence 26, Appl
828	24	54.5	532	11	US-11-079-463-8770	Sequence 8770, Ap	901	24	54.5	673	11	US-11-058-727-30	Sequence 30, Appl
829	24	54.5	533	11	US-11-124-168A-335	Sequence 335, App	902	24	54.5	673	11	US-11-058-727-34	Sequence 34, Appl
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838	24	54.5	543	9	US-10-784-004-425	Sequence 425, App	911	24	54.5	673	11	US-11-058-727-86	Sequence 86, Appl
839	24	54.5	543	11	US-11-072-512-1607	Sequence 3607, Ap	912	24	54.5	673	11	US-11-058-727-88	Sequence 88, Appl
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842	24	54.5	548	11	US-11-188-298-9428	Sequence 9428, Ap	915	24	54.5	673	11	US-11-058-727-92	Sequence 94, Appl
843	24	54.5	550	11	US-11-096-568A-16173	Sequence 16173, A	916	24	54.5	673	11	US-11-058-727-94	Sequence 94, Appl
844	24	54.5	550	11	US-11-188-298-15254	Sequence 15254, A	917	24	54.5	673	11	US-11-108-389-8	Sequence 8, Appl
845	24	54.5	553	9	US-10-821-234-1636	Sequence 1636, Ap	918	24	54.5	673	11	US-11-108-389-14	Sequence 14, Appl
846	24	54.5	553	9	US-10-878-556A-150	Sequence 150, App	919	24	54.5	673	11	US-11-108-389-22	Sequence 22, Appl
847	24	54.5	553	9	US-10-784-004-741	Sequence 741, App	920	24	54.5	673	11	US-11-108-389-30	Sequence 26, Appl
848	24	54.5	553	9	US-11-096-568A-10483	Sequence 10483, A	921	24	54.5	673	11	US-11-108-389-34	Sequence 34, Appl
849	24	54.5	557	11	US-11-096-568A-4258	Sequence 4258, Ap	922	24	54.5	673	11	US-11-108-389-56	Sequence 54, Appl
850	24	54.5	558	11	US-11-188-298-22418	Sequence 22418, A	923	24	54.5	673	11	US-11-108-389-58	Sequence 56, Appl
851	24	54.5	559	11	US-11-096-568A-24187	Sequence 24187, A	924	24	54.5	673	11	US-11-108-389-60	Sequence 58, Appl
852	24	54.5	566	11	US-11-079-463-8132	Sequence 8132, Ap	925	24	54.5	673	11	US-11-108-389-62	Sequence 60, Appl
853	24	54.5	571	11	US-11-188-298-1982	Sequence 1982, Ap	926	24	54.5	673	11	US-11-108-389-62	Sequence 62, Appl
854	24	54.5	579	11	US-11-087-099-477	Sequence 477, App	927	24	54.5	673	11	US-11-108-389-64	Sequence 64, Appl
855	24	54.5	580	11	US-11-087-099-477	Sequence 2, Appl	928	24	54.5	673	11	US-11-108-389-66	Sequence 66, Appl
856	24	54.5	587	8	US-10-469-469-316	Sequence 316, App	929	24	54.5	673	11	US-11-108-389-68	Sequence 68, Appl
857	24	54.5	588	9	US-11-188-298-14823	Sequence 14823, A	930	24	54.5	673	11	US-11-108-389-70	Sequence 70, Appl
858	24	54.5	590	11	US-11-188-298-8787	Sequence 8787, Ap	931	24	54.5	673	11	US-11-108-389-86	Sequence 86, Appl
859	24	54.5	595	11	US-11-188-298-8962	Sequence 8962, Ap	932	24	54.5	673	11	US-11-108-389-86	Sequence 86, Appl
860	24	54.5	595	11	US-11-188-298-14259	Sequence 14259, Ap	933	24	54.5	673	11	US-11-108-389-88	Sequence 88, Appl
861	24	54.5	596	11	US-11-079-463-10121	Sequence 10121, A	934	24	54.5	673	11	US-11-108-389-90	Sequence 90, Appl
862	24	54.5	598	9	US-10-506-454-1593	Sequence 1593, Ap	935	24	54.5	673	11	US-11-108-389-92	Sequence 92, Appl
863	24	54.5	598	11	US-11-188-298-909	Sequence 909, App	936	24	54.5	673	11	US-11-108-389-94	Sequence 94, Appl
864	24	54.5	605	11	US-11-072-512-3739	Sequence 3739, Ap	937	24	54.5	673	11	US-11-108-389-94	Sequence 94, Appl
865	24	54.5	606	9	US-10-763-712A-9	Sequence 9, Appl	938	24	54.5	673	11	US-11-224-624-14	Sequence 14, Appl
866	24	54.5	606	9	US-10-763-712A-97	Sequence 97, Appl	939	24	54.5	673	11	US-11-224-624-26	Sequence 22, Appl
867	24	54.5	610	11	US-11-087-099-6511	Sequence 6511, Ap	940	24	54.5	673	11	US-11-224-624-34	Sequence 30, Appl
868	24	54.5	616	11	US-11-058-727-16	Sequence 16, Appl	941	24	54.5	673	11	US-11-224-624-34	Sequence 34, Appl
869	24	54.5	616	11	US-11-108-389-16	Sequence 16, Appl	942	24	54.5	673	11	US-11-224-624-40	Sequence 34, Appl
870	24	54.5	616	11	US-11-224-624-16	Sequence 16, Appl	943	24	54.5	673	11	US-11-224-624-44	Sequence 34, Appl
871	24	54.5	619	9	US-10-763-712A-35	Sequence 35, Appl	944	24	54.5	673	11	US-11-224-624-56	Sequence 56, Appl
872	24	54.5	620	11	US-11-058-727-20	Sequence 20, Appl	945	24	54.5	673	11	US-11-224-624-58	Sequence 58, Appl
873	24	54.5	620	11	US-11-108-389-20	Sequence 20, Appl	946	24	54.5	673	11	US-11-224-624-60	Sequence 60, Appl
874	24	54.5	620	11	US-11-224-624-20	Sequence 20, Appl	947	24	54.5	673	11	US-11-224-624-62	Sequence 62, Appl
875	24	54.5	622	11	US-11-070-080-22	Sequence 22, Appl	948	24	54.5	673	11	US-11-224-624-66	Sequence 64, Appl
876	24	54.5	632	9	US-10-501-841-12	Sequence 12, Appl	949	24	54.5	673	11	US-11-224-624-70	Sequence 66, Appl
877	24	54.5	636	9	US-10-469-469-315	Sequence 315, App	950	24	54.5	673	11	US-11-224-624-70	Sequence 70, Appl
878	24	54.5	641	11	US-11-062-225-1	Sequence 1, Appl	951	24	54.5	673	11	US-11-224-624-86	Sequence 86, Appl
879	24	54.5	644	11	US-11-079-463-9652	Sequence 9652, Ap	952	24	54.5	673	11	US-11-224-624-80	Sequence 88, Appl
880	24	54.5	645	11	US-11-096-568A-19117	Sequence 19117, A	953	24	54.5	673	11	US-11-224-624-80	Sequence 90, Appl
881	24	54.5	648	9	US-10-467-657-7514	Sequence 7514, Ap	954	24	54.5	673	11	US-11-224-624-84	Sequence 92, Appl
882	24	54.5	648	11	US-11-096-568A-19116	Sequence 19116, A	955	24	54.5	673	11	US-11-224-624-92	Sequence 94, Appl
883	24	54.5	653	11	US-11-045-004-254	Sequence 254, App	956	24	54.5	673	11	US-11-058-727-44	Sequence 44, Appl
884	24	54.5	661	8	US-10-489-730-11	Sequence 11, Appl	957	24	54.5	674	11	US-11-058-727-50	Sequence 44, Appl
885	24	54.5	662	9	US-10-501-841-10	Sequence 10, Appl	958	24	54.5	674	11	US-11-058-727-76	Sequence 44, Appl
886	24	54.5	662	11	US-11-072-512-3398	Sequence 3398, Ap	959	24	54.5	674	11	US-11-058-727-82	Sequence 44, Appl
887	24	54.5	663	11	US-11-188-298-6588	Sequence 6588, Ap	960	24	54.5	674	11	US-11-108-389-74	Sequence 44, Appl
888	24	54.5	667	11	US-11-188-298-11851	Sequence 11851, A	961	24	54.5	674	11	US-11-108-389-76	Sequence 44, Appl
889	24	54.5	669	9	US-10-501-841-8	Sequence 8, Appl	962	24	54.5	674	11	US-11-108-389-80	Sequence 44, Appl
890	24	54.5	669	11	US-11-058-727-6	Sequence 6, Appl	963	24	54.5	674	11	US-11-108-389-82	Sequence 44, Appl
891	24	54.5	669	11	US-11-058-727-12	Sequence 12, Appl	964	24	54.5	674	11	US-11-224-624-44	Sequence 44, Appl
892	24	54.5	669	11	US-11-108-389-6	Sequence 6, Appl	965	24	54.5	674	11	US-11-224-624-40	Sequence 44, Appl
893	24	54.5	669	11	US-11-108-389-12	Sequence 12, Appl	966	24	54.5	674	11	US-11-224-624-40	Sequence 44, Appl
894	24	54.5	669	11	US-11-224-624-6	Sequence 6, Appl	967	24	54.5	674	11	US-11-224-624-46	Sequence 44, Appl
895	24	54.5	669	11	US-11-224-624-12	Sequence 12, Appl	968	24	54.5	675	11	US-11-224-624-42	Sequence 42, Appl
896	24	54.5	673	9	US-10-915-002-168	Sequence 168, App	969	24	54.5	675	11	US-11-058-727-42	Sequence 42, Appl
897	24	54.5	673	11	US-11-058-727-8	Sequence 8, Appl	970	24	54.5	675	11	US-11-058-727-46	Sequence 46, Appl

971 24 54.5 675 11 US-11-058-727-48 Sequence 48, Appl
972 24 54.5 675 11 US-11-058-727-74 Sequence 74, Appl
973 24 54.5 675 11 US-11-058-727-78 Sequence 78, Appl
974 24 54.5 675 11 US-11-058-727-80 Sequence 80, Appl
975 24 54.5 675 11 US-11-108-389-42 Sequence 42, Appl
976 24 54.5 675 11 US-11-108-389-46 Sequence 46, Appl
977 24 54.5 675 11 US-11-108-389-48 Sequence 48, Appl
978 24 54.5 675 11 US-11-108-389-74 Sequence 74, Appl
979 24 54.5 675 11 US-11-108-389-80 Sequence 80, Appl
980 24 54.5 675 11 US-11-108-389-80 Sequence 80, Appl
981 24 54.5 675 11 US-11-224-624-42 Sequence 42, Appl
982 24 54.5 675 11 US-11-224-624-46 Sequence 46, Appl
983 24 54.5 675 11 US-11-224-624-48 Sequence 48, Appl
984 24 54.5 675 11 US-11-224-624-74 Sequence 74, Appl
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986 24 54.5 675 11 US-11-224-624-80 Sequence 80, Appl
987 24 54.5 676 11 US-11-058-727-40 Sequence 40, Appl
988 24 54.5 676 11 US-11-058-727-72 Sequence 72, Appl
989 24 54.5 676 11 US-11-108-389-40 Sequence 40, Appl
990 24 54.5 676 11 US-11-108-389-72 Sequence 72, Appl
991 24 54.5 676 11 US-11-224-624-40 Sequence 40, Appl
992 24 54.5 676 11 US-11-224-624-72 Sequence 72, Appl
993 24 54.5 677 11 US-11-058-727-52 Sequence 52, Appl
994 24 54.5 677 11 US-11-108-389-52 Sequence 52, Appl
995 24 54.5 677 11 US-11-108-389-84 Sequence 84, Appl
996 24 54.5 677 11 US-11-224-624-52 Sequence 52, Appl
997 24 54.5 677 11 US-11-224-624-84 Sequence 84, Appl
998 24 54.5 681 11 US-11-072-512-3586 Sequence 3586, Ap
999 24 54.5 681 11 US-11-188-298-17684 Sequence 17684, A
1000 24 54.5 681 11 US-11-188-298-17684

ALIGNMENTS

RESULT 1
US-10-530-253-13
; Sequence 13, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Cassecci, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 13
; LENGTH: 151
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-10-530-253-13

Query Match 100.0%; Score 44; DB 9; Length 151;
Best Local Similarity 100.0%; Pred. No. 0.053;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 QQLRRREV 9
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Db 35 QQLRRREV 43

RESULT 2
US-11-206-138-3
; Sequence 3, Application US/11206138
; Publication No. US20060039919A1

; GENERAL INFORMATION:
; APPLICANT: Healthbancs Biotech CO. LTD.
; TITLE OF INVENTION: Fusion protein for inhibiting cervical cancer
; FILE REFERENCE: P7819/0613
; CURRENT APPLICATION NUMBER: US/11/206,138
; CURRENT FILING DATE: 2005-08-18
; NUMBER OF SEQ ID NOS: 14
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 3
; LENGTH: 158
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-11-206-138-3

Query Match 100.0%; Score 44; DB 11; Length 158;
Best Local Similarity 100.0%; Pred. No. 0.056;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 QQLRRREV 9
| | | | | | | | | |
Db 42 QQLRRREV 50

RESULT 3
US-10-530-253-1
; Sequence 1, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Cassecci, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 1
; LENGTH: 248
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-10-530-253-1

Query Match 100.0%; Score 44; DB 9; Length 248;
Best Local Similarity 100.0%; Pred. No. 0.092;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 QQLRRREV 9
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Db 35 QQLRRREV 43

RESULT 4
US-10-530-253-3
; Sequence 3, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Cassecci, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929

;; TYPE: PRT
;; ORGANISM: Human papillomavirus type 16
US-10-530-253-7
;; SEQUENCE OF SEQ ID NOS: 65
;; SOFTWARE: Patentin version 3.1
;; LENGTH: 248
;; TYPE: PRT
;; ORGANISM: Human papillomavirus type 16
US-10-530-253-3

Query Match 100.0%; Score 44; DB 9; Length 248;
Best Local Similarity 100.0%; Pred. No. 0.092;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 OQLLRREVY 9
|||
Db 35 OQLLRREVY 43

RESULT 5
US-10-530-253-5
; Sequence 5, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Cassetti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; PRIOR FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: Patentin version 3.1
; SEQ ID NO 5
; LENGTH: 248
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-10-530-253-5

Query Match 100.0%; Score 44; DB 9; Length 248;
Best Local Similarity 100.0%; Pred. No. 0.092;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 OQLLRREVY 9
|||
Db 35 OQLLRREVY 43

RESULT 6
US-10-530-253-7
; Sequence 7, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Cassetti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; PRIOR FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: Patentin version 3.1
; SEQ ID NO 7
; LENGTH: 248

;; TYPE: PRT
;; ORGANISM: Human papillomavirus type 16
US-10-530-253-7

Query Match 100.0%; Score 44; DB 9; Length 248;
Best Local Similarity 100.0%; Pred. No. 0.092;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 OQLLRREVY 9
|||
Db 132 OQLLRREVY 140

RESULT 7
US-10-530-253-9
; Sequence 9, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Cassetti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; PRIOR FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: Patentin version 3.1
; SEQ ID NO 9
; LENGTH: 248
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-10-530-253-9

Query Match 100.0%; Score 44; DB 9; Length 248;
Best Local Similarity 100.0%; Pred. No. 0.092;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 OQLLRREVY 9
|||
Db 132 OQLLRREVY 140

RESULT 8
US-10-530-253-11
; Sequence 11, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Cassetti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; PRIOR FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: Patentin version 3.1
; SEQ ID NO 11
; LENGTH: 248
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-10-530-253-11

Query Match 100.0%; Score 44; DB 9; Length 248;

Best Local Similarity 100.0%; Pred. No. 0.092;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 QQLRREV 9
|||
Db 132 QQLRREV 140

RESULT 9
US-11-192-923A-2
; Sequence 2, Application US/11192923A
; Publication No. US20060018928A1
; GENERAL INFORMATION:
; APPLICANT: PANQ, XIAOWU
; TITLE OF INVENTION: VIRUS-LIKE PARTICLE CONTAINING A DENGUE VIRUS
; FILE REFERENCE: 116620-003
; CURRENT APPLICATION NUMBER: US/11/192,923A
; CURRENT FILING DATE: 2005-07-29
; PRIOR APPLICATION NUMBER: CN 03115272.4
; PRIOR FILING DATE: 2003-01-30
; PRIOR APPLICATION NUMBER: CN 03115273.2
; PRIOR FILING DATE: 2003-01-30
; NUMBER OF SEQ ID NOS: 45
; SOFTWARE: PatentIn Ver. 3.3
; SEQ ID NO 2
; LENGTH: 256
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-11-192-923A-2

Query Match 100.0%; Score 44; DB 11; Length 256;
Best Local Similarity 100.0%; Pred. No. 0.095;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 QQLRREV 9
|||
Db 140 QQLRREV 148

RESULT 10
US-11-051-720-1497
; Sequence 1497, Application US/11051720
; Publication No. US20060046257A1
; GENERAL INFORMATION:
; APPLICANT: Compugen Ltd
; TITLE OF INVENTION: NOVEL NUCLEOTIDE AND AMINO ACID SEQUENCES, AND ASSAYS AND METHODS
; FILE REFERENCE: 1847.1002
; CURRENT APPLICATION NUMBER: US/11/051,720
; CURRENT FILING DATE: 2005-01-27
; NUMBER OF SEQ ID NOS: 1780
; SEQ ID NO 1497
; LENGTH: 665
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-051-720-1497

Query Match 75.0%; Score 33; DB 11; Length 665;
Best Local Similarity 87.5%; Pred. No. 55;
Matches 7; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 QQLRREV 8
|||
Db 322 QQLRREV 329

RESULT 11
US-11-051-720-1499
; Sequence 1499, Application US/11051720
; Publication No. US20060046257A1
; GENERAL INFORMATION:
; APPLICANT: Compugen Ltd

; TITLE OF INVENTION: NOVEL NUCLEOTIDE AND AMINO ACID SEQUENCES, AND ASSAYS AND METHODS
; FILE REFERENCE: 1847.1002
; CURRENT APPLICATION NUMBER: US/11/051,720
; CURRENT FILING DATE: 2005-01-27
; NUMBER OF SEQ ID NOS: 1780
; SEQ ID NO 1499
; LENGTH: 751
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-051-720-1499

Query Match 75.0%; Score 33; DB 11; Length 751;
Best Local Similarity 87.5%; Pred. No. 62;
Matches 7; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 QQLRREV 8
|||
Db 322 QQLRREV 329

RESULT 12
US-11-051-720-1496
; Sequence 1496, Application US/11051720
; Publication No. US20060046257A1
; GENERAL INFORMATION:
; APPLICANT: Compugen Ltd
; TITLE OF INVENTION: NOVEL NUCLEOTIDE AND AMINO ACID SEQUENCES, AND ASSAYS AND METHODS
; FILE REFERENCE: 1847.1002
; CURRENT APPLICATION NUMBER: US/11/051,720
; CURRENT FILING DATE: 2005-01-27
; NUMBER OF SEQ ID NOS: 1780
; SEQ ID NO 1496
; LENGTH: 782
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-051-720-1496

Query Match 75.0%; Score 33; DB 11; Length 782;
Best Local Similarity 87.5%; Pred. No. 65;
Matches 7; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 QQLRREV 8
|||
Db 439 QQLRREV 446

RESULT 13
US-11-051-720-1498
; Sequence 1498, Application US/11051720
; Publication No. US20060046257A1
; GENERAL INFORMATION:
; APPLICANT: Compugen Ltd
; TITLE OF INVENTION: NOVEL NUCLEOTIDE AND AMINO ACID SEQUENCES, AND ASSAYS AND METHODS
; FILE REFERENCE: 1847.1002
; CURRENT APPLICATION NUMBER: US/11/051,720
; CURRENT FILING DATE: 2005-01-27
; NUMBER OF SEQ ID NOS: 1780
; SEQ ID NO 1498
; LENGTH: 784
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-051-720-1498

Query Match 75.0%; Score 33; DB 11; Length 784;
Best Local Similarity 87.5%; Pred. No. 65;
Matches 7; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 QQLRREV 8
|||
Db 322 QQLRREV 329

```
RESULT 14
US-11-051-720-1494
; Sequence 1494, Application US/11051720
; Publication No. US20060046257A1
; GENERAL INFORMATION:
; APPLICANT: Compugen Ltd
; TITLE OF INVENTION: NOVEL NUCLEOTIDE AND AMINO ACID SEQUENCES, AND ASSAYS AND METHODS
; FILE REFERENCE: 1847.1002
; CURRENT APPLICATION NUMBER: US/11/051,720
; CURRENT FILING DATE: 2005-01-27
; NUMBER OF SEQ ID NOS: 1780
; SEQ ID NO 1494
; LENGTH: 868
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-051-720-1494

Query Match
Best Local Similarity 75.0%; Score 33; DB 11; Length 868;
Best Local Similarity 87.5%; Pred. No. 73;
Matches 7; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 QOLLRREV 8
DB 439 QOLLRREV 446

RESULT 15
US-11-051-720-1495
; Sequence 1495, Application US/11051720
; Publication No. US20060046257A1
; GENERAL INFORMATION:
; APPLICANT: Compugen Ltd
; TITLE OF INVENTION: NOVEL NUCLEOTIDE AND AMINO ACID SEQUENCES, AND ASSAYS AND METHODS
; FILE REFERENCE: 1847.1002
; CURRENT APPLICATION NUMBER: US/11/051,720
; CURRENT FILING DATE: 2005-01-27
; NUMBER OF SEQ ID NOS: 1780
; SEQ ID NO 1495
; LENGTH: 901
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-051-720-1495

Query Match
Best Local Similarity 75.0%; Score 33; DB 11; Length 901;
Best Local Similarity 87.5%; Pred. No. 76;
Matches 7; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 QOLLRREV 8
DB 439 QOLLRREV 446

RESULT 16
US-11-079-463-8301
; Sequence 8301, Application US/11079463
; Publication No. US20060073161A1
; GENERAL INFORMATION:
; APPLICANT: Gary L. Breton
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO BACTERIOIDES FRU
; FILE REFERENCE: PATHO0-03DIV2
; CURRENT APPLICATION NUMBER: US/11/079,463
; CURRENT FILING DATE: 2005-03-14
; PRIOR APPLICATION NUMBER: US 60/128,705
; PRIOR FILING DATE: 1999-04-09
; PRIOR APPLICATION NUMBER: US 09/540,209
; PRIOR FILING DATE: 2000-04-04
; NUMBER OF SEQ ID NOS: 10444
; SEQ ID NO 8301
```

```
LENGTH: 478
; TYPE: PRT
; ORGANISM: B.fragilis
US-11-079-463-8301

Query Match
Best Local Similarity 72.7%; Score 32; DB 11; Length 478;
Best Local Similarity 66.7%; Pred. No. 62;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 QOLLRREV 9
DB 420 QOLLRREV 428

RESULT 17
US-11-098-686-11102
; Sequence 11102, Application US/11098686
; Publication No. US20060024696A1
; GENERAL INFORMATION:
; APPLICANT: Kapur, Vivek and Gebhart, Connie J.
; TITLE OF INVENTION: NUCLEIC ACID AND POLYPEPTIDE SEQUENCES
; FILE REFERENCE: 09531-128001
; CURRENT APPLICATION NUMBER: US/11/098,686
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31318
; PRIOR FILING DATE: 2003-10-01
; PRIOR APPLICATION NUMBER: US 60/416,395
; PRIOR FILING DATE: 2002-10-04
; NUMBER OF SEQ ID NOS: 11433
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 11102
; LENGTH: 554
; TYPE: PRT
; ORGANISM: Lawsonia intracellularis
US-11-098-686-11102

Query Match
Best Local Similarity 72.7%; Score 32; DB 11; Length 554;
Best Local Similarity 55.6%; Pred. No. 72;
Matches 5; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 1 QOLLRREV 9
DB 275 QOLLRREV 283

RESULT 18
US-11-044-111-24
; Sequence 24, Application US/11044111
; Publication No. US20050272362A1
; GENERAL INFORMATION:
; APPLICANT: Chiang, Wen
; APPLICANT: Strauburg, Gale
; APPLICANT: Linz, John
; TITLE OF INVENTION: Genetic Test for PSE-Susceptible Turkeys
; FILE REFERENCE: MSU-09308
; CURRENT APPLICATION NUMBER: US/11/044,111
; CURRENT FILING DATE: 2005-01-27
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 24
; LENGTH: 4868
; TYPE: PRT
; ORGANISM: Meleagris gallopavo
US-11-044-111-24

Query Match
Best Local Similarity 72.7%; Score 32; DB 11; Length 4868;
Best Local Similarity 77.8%; Pred. No. 7,9e+02;
Matches 7; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 QOLLRREV 9
DB 2484 QOLLRREV 2492
```

RESULT 19
US-10-530-253-22
; Sequence 22, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Casaretti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; PRIOR FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 22
; LENGTH: 148
; TYPE: PRT
; ORGANISM: Human papillomavirus type 52
US-10-530-253-22

Query Match 70.5%; Score 31; DB 9; Length 148;
Best Local Similarity 66.7%; Pred. No. 28;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 1 QOLLRREV 9
Db 35 KQLRRREV 43

RESULT 20
US-11-098-686-10457
; Sequence 10457, Application US/11098686
; Publication No. US20060024696A1
; GENERAL INFORMATION:
; APPLICANT: Kapur, Vivek and Gebhart, Connie J.
; TITLE OF INVENTION: NUCLEIC ACID AND POLYPEPTIDE SEQUENCES
; FILE REFERENCE: 095531-128001
; CURRENT APPLICATION NUMBER: US/11/098,686
; PRIOR FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31318
; PRIOR FILING DATE: 2003-10-01
; PRIOR APPLICATION NUMBER: US 60/416,395
; PRIOR FILING DATE: 2002-10-04
; NUMBER OF SEQ ID NOS: 11433
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 10457
; LENGTH: 642
; TYPE: PRT
; ORGANISM: Lawsonia intracellularis
US-11-098-686-10457

Query Match 70.5%; Score 31; DB 11; Length 642;
Best Local Similarity 75.0%; Pred. No. 1.4e+02;
Matches 6; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 2 QOLLRREV 9
Db 294 QLLRRRLM 301

RESULT 21
US-11-188-298-15554
; Sequence 15554, Application US/11188298
; Publication No. US20060075522A1
; GENERAL INFORMATION:

; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
; FILE REFERENCE: 38-21(53452)B
; CURRENT APPLICATION NUMBER: US/11/188,298
; PRIOR FILING DATE: 2005-07-22
; PRIOR APPLICATION NUMBER: 60/592,978
; PRIOR FILING DATE: 2004-07-31
; NUMBER OF SEQ ID NOS: 22569
; SEQ ID NO 15554
; LENGTH: 696
; TYPE: PRT
; ORGANISM: ASPERGILLUS NIDULANS FGSC A4
US-11-188-298-15554

Query Match 70.5%; Score 31; DB 11; Length 696;
Best Local Similarity 66.7%; Pred. No. 1.5e+02;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 1 QOLLRREV 9
Db 510 QKVLRRREV 518

RESULT 22
US-10-467-657-178
; Sequence 178, Application US/10467657
; Publication No. US20050260581A1
; GENERAL INFORMATION:
; APPLICANT: CHIRON SPA
; APPLICANT: FONTANA Maria Rita
; APPLICANT: PIZZA Mariagrazia
; APPLICANT: MASIGNANI Vega
; APPLICANT: MONACI Elisabetta
; TITLE OF INVENTION: GONOCOCCAL PROTEINS AND NUCLEIC ACIDS
; FILE REFERENCE:
; CURRENT APPLICATION NUMBER: US/10/467,657
; PRIOR FILING DATE: 2003-08-11
; PRIOR APPLICATION NUMBER: GB-0103424.8
; PRIOR FILING DATE: 2001-02-12
; NUMBER OF SEQ ID NOS: 9218
; SOFTWARE: SeqWin99, version 1.04
; SEQ ID NO 178
; LENGTH: 1381
; TYPE: PRT
; ORGANISM: Neisseria gonorrhoeae
US-10-467-657-178

Query Match 70.5%; Score 31; DB 9; Length 1381;
Best Local Similarity 66.7%; Pred. No. 3.2e+02;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 1 QOLLRREV 9
Db 355 QOLLRREV 363

RESULT 23
US-10-467-657-3726
; Sequence 3726, Application US/10467657
; Publication No. US20050260581A1
; GENERAL INFORMATION:
; APPLICANT: CHIRON SPA
; APPLICANT: FONTANA Maria Rita
; APPLICANT: PIZZA Mariagrazia
; APPLICANT: MASIGNANI Vega
; APPLICANT: MONACI Elisabetta
; TITLE OF INVENTION: GONOCOCCAL PROTEINS AND NUCLEIC ACIDS
; FILE REFERENCE:
; CURRENT APPLICATION NUMBER: US/10/467,657
; PRIOR FILING DATE: 2003-08-11
; PRIOR APPLICATION NUMBER: GB-0103424.8
; PRIOR FILING DATE: 2001-02-12
; NUMBER OF SEQ ID NOS: 9218


```
OTHER INFORMATION: Utility: Useful for increasing chlorophyll and photosynthetic cap
FEATURE:
NAME/KEY: misc_feature
LOCATION:
OTHER INFORMATION: Utility: Useful for making plants sterile and for genetic confine
FEATURE:
NAME/KEY: misc_feature
LOCATION:
OTHER INFORMATION: Utility: Useful for making smaller plants
US-11-172-740-1253
```

```
Query Match      68.2%; Score 30; DB 11; Length 307;
Best Local Similarity 55.6%; Pred. No. 99;
Matches 5; Conservative 4; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy      1 QQLRRREY 9
      |||:::
Db      8 QQLRRRKLH 16
```

```
RESULT 27
US-11-172-740-1257
; Sequence 1257, Application US/11172740
; Publication No. US20060057724A1
; GENERAL INFORMATION:
; APPLICANT: MASCIA, Peter
; APPLICANT: ALEXANDROV, Nikolai
; APPLICANT: BROVER, Vyacheslav
; TITLE OF INVENTION: NUCLEOTIDE SEQUENCES AND POLYPEPTIDES ENCODED THEREBY USEFUL FOR
; FILE REFERENCE: 2750-1602PUS2
; CURRENT APPLICATION NUMBER: US/11/172,740
; PRIOR FILING DATE: 2005-06-30
; PRIOR APPLICATION NUMBER: 60/583,621
; PRIOR FILING DATE: 2004-06-30
; PRIOR APPLICATION NUMBER: 60/584,829
; PRIOR FILING DATE: 2004-06-30
; PRIOR APPLICATION NUMBER: 60/584,800
; PRIOR FILING DATE: 2004-06-30
; NUMBER OF SEQ ID NOS: 2523
; SEQ ID NO 1257
; LENGTH: 307
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)..(307)
; OTHER INFORMATION: Ceres CLONE ID no. 621235
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION:
; OTHER INFORMATION: Utility: Useful for increasing chlorophyll and photosynthetic cap
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION:
; OTHER INFORMATION: Utility: Useful for making plants sterile and for genetic confine
; NAME/KEY: misc_feature
; LOCATION:
; OTHER INFORMATION: Utility: Useful for making smaller plants
US-11-172-740-1257
```

```
Query Match      68.2%; Score 30; DB 11; Length 307;
Best Local Similarity 55.6%; Pred. No. 99;
Matches 5; Conservative 4; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy      1 QQLRRREY 9
      |||:::
Db      7 QQLRRRKLH 15
```

```
RESULT 28
US-11-172-740-1258
```

```
; Sequence 1258, Application US/11172740
; Publication No. US20060057724A1
; GENERAL INFORMATION:
; APPLICANT: MASCIA, Peter
; APPLICANT: ALEXANDROV, Nikolai
; APPLICANT: BROVER, Vyacheslav
; TITLE OF INVENTION: NUCLEOTIDE SEQUENCES AND POLYPEPTIDES ENCODED THEREBY USEFUL FOR
; FILE REFERENCE: 2750-1602PUS2
; CURRENT APPLICATION NUMBER: US/11/172,740
; PRIOR FILING DATE: 2005-06-30
; PRIOR APPLICATION NUMBER: 60/583,621
; PRIOR FILING DATE: 2004-06-30
; PRIOR APPLICATION NUMBER: 60/584,829
; PRIOR FILING DATE: 2004-06-30
; PRIOR APPLICATION NUMBER: 60/584,800
; PRIOR FILING DATE: 2004-06-30
; NUMBER OF SEQ ID NOS: 2523
; SEQ ID NO 1258
; LENGTH: 307
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)..(307)
; OTHER INFORMATION: Ceres CLONE ID no. 516928
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION:
; OTHER INFORMATION: Utility: Useful for increasing chlorophyll and photosynthetic cap
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION:
; OTHER INFORMATION: Utility: Useful for making plants sterile and for genetic confine
US-11-172-740-1258
```

```
Query Match      68.2%; Score 30; DB 11; Length 307;
Best Local Similarity 55.6%; Pred. No. 99;
Matches 5; Conservative 4; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy      1 QQLRRREY 9
      |||:::
Db      7 QQLRRRKLH 15
```

```
RESULT 29
US-10-793-626-586
; Sequence 586, Application US/10793626
; Publication No. US20050255478A1
; GENERAL INFORMATION:
; APPLICANT: KIMMERLY, WILLIAM JOHN
; TITLE OF INVENTION: STAPHYLOCOCCUS EPIDERMIDIS NUCLEIC ACIDS AND PROTEINS
; FILE REFERENCE: P13480US
; CURRENT APPLICATION NUMBER: US/10/793,626
; PRIOR FILING DATE: 2004-03-04
; PRIOR APPLICATION NUMBER: 60/164,258
; PRIOR FILING DATE: 1999-11-09
; NUMBER OF SEQ ID NOS: 4472
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 586
; LENGTH: 322
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: synthetic
; OTHER INFORMATION: amino acid sequence
US-10-793-626-586
```

```
Query Match      68.2%; Score 30; DB 9; Length 322;
```

Best Local Similarity 75.0%; Pred. No. 1e+02; Indels 0; Gaps 0;
Matches 6; Conservative 2; Mismatches 0;

Qy 1 QOLLRREV 8
Db 288 QRLRKRV 295

RESULT 30

US-10-793-626-984
; Sequence 984, Application US/10793626
; Publication No. US2005025578A1
; GENERAL INFORMATION:
; APPLICANT: KIMMERLY, WILLIAM JOHN
; TITLE OF INVENTION: STAPHYLOCOCCUS EPIDERMIDIS NUCLEIC ACIDS AND PROTEINS
; FILE REFERENCE: PUJ480US
; CURRENT APPLICATION NUMBER: US/10/793,626
; CURRENT FILING DATE: 2004-03-04
; PRIOR APPLICATION NUMBER: 60/164,258
; PRIOR FILING DATE: 1999-11-09
; NUMBER OF SEQ ID NOS: 4472
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 984
; LENGTH: 322
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: synthetic
US-10-793-626-984

Query Match 68.2%; Score 30; DB 9; Length 322;
Best Local Similarity 75.0%; Pred. No. 1e+02;
Matches 6; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 1 QOLLRREV 8
Db 288 QRLRKRV 295

RESULT 31
US-11-096-568A-28439
; Sequence 28439, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:

; APPLICANT: Alexandrov, Nickolai et al.
; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
; FILE REFERENCE: 2750-1592PUS2
; CURRENT APPLICATION NUMBER: US/11/096,568A
; CURRENT FILING DATE: 2005-04-01
; NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 28439
; LENGTH: 426
; TYPE: PRT
; ORGANISM: Arabidopsis thaliana
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)..(426)
; OTHER INFORMATION: Ceres Seq. ID no. 2731144
US-11-096-568A-28439

Query Match 68.2%; Score 30; DB 11; Length 426;
Best Local Similarity 66.7%; Pred. No. 1.4e+02;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Qy 1 QOLLRREV 9
Db 314 EALLRSTV 322

RESULT 32
US-11-096-568A-28438

; Sequence 28438, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:

; APPLICANT: Alexandrov, Nickolai et al.
; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
; FILE REFERENCE: 2750-1592PUS2
; CURRENT APPLICATION NUMBER: US/11/096,568A
; CURRENT FILING DATE: 2005-04-01
; NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 28438
; LENGTH: 472
; TYPE: PRT
; ORGANISM: Arabidopsis thaliana
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)..(472)
; OTHER INFORMATION: Ceres Seq. ID no. 2731143
US-11-096-568A-28438

Query Match 68.2%; Score 30; DB 11; Length 472;
Best Local Similarity 66.7%; Pred. No. 1.6e+02;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Qy 1 QOLLRREV 9
Db 360 EALLRSTV 368

RESULT 33

US-10-501-841-107
; Sequence 107, Application US/10501841
; Publication No. US20060084055A1
; GENERAL INFORMATION:
; APPLICANT: Gaiger, Alexander
; APPLICANT: Algate, Paul A.
; APPLICANT: Mannion, Jane
; APPLICANT: Clapper, Jonathan David
; APPLICANT: Wang, Aljun
; APPLICANT: Ordonez, Nadia
; APPLICANT: Carter, Lauren
; APPLICANT: McNeill, Patricia Dianne
; APPLICANT: Corixa Corporation
; TITLE OF INVENTION: Compositions and Methods for the Detection, Diagnosis
; FILE REFERENCE: 014058-014402PC
; CURRENT APPLICATION NUMBER: US/10/501,841
; CURRENT FILING DATE: 2004-07-14
; PRIOR APPLICATION NUMBER: US 10/057,475
; PRIOR FILING DATE: 2002-01-22
; PRIOR APPLICATION NUMBER: WO PCT/US03/02353
; PRIOR FILING DATE: 2003-01-22
; NUMBER OF SEQ ID NOS: 124
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 107
; LENGTH: 579
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-501-841-107

Query Match 68.2%; Score 30; DB 9; Length 579;
Best Local Similarity 100.0%; Pred. No. 2e+02;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 4 LRRREV 9
Db 404 LRRREV 409

RESULT 34
US-11-096-568A-28437
; Sequence 28437, Application US/11096568A
; Publication No. US20060048240A1

```

; GENERAL INFORMATION:
; APPLICANT: Alexandrov, Nikolai et al.
; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
; FILE REFERENCE: 2750-1592PUS2
; CURRENT APPLICATION NUMBER: US/11/096,568A
; CURRENT FILING DATE: 2005-04-01
; NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 28437
; LENGTH: 730
; TYPE: PRT
; ORGANISM: Arabidopsis thaliana
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)..(730)
; OTHER INFORMATION: Ceres Seq. ID no. 2731142
US-11-096-568A-28437

Query Match          68.2%; Score 30; DB 11; Length 730;
Best Local Similarity 66.7%; Pred. No. 2.6e+02;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Qy      1 QQLRREYV 9
       :|||:|
Db      618 EALLRSYV 626

RESULT 35
US-11-079-463-8667
; Sequence 8667, Application US/11079463
; Publication No. US20060073161A1
; GENERAL INFORMATION:
; APPLICANT: Gary L. Breton
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO BACTERIOIDES FRA
; FILE REFERENCE: PATH00-03DIV2
; CURRENT APPLICATION NUMBER: US/11/079,463
; CURRENT FILING DATE: 2005-03-14
; PRIOR APPLICATION NUMBER: US 60/128,705
; PRIOR FILING DATE: 1999-04-09
; PRIOR APPLICATION NUMBER: US 09/540,209
; PRIOR FILING DATE: 2000-04-04
; NUMBER OF SEQ ID NOS: 10444
; SEQ ID NO 8667
; LENGTH: 1445
; TYPE: PRT
; ORGANISM: B.fragilis
US-11-079-463-8667

Query Match          68.2%; Score 30; DB 11; Length 1445;
Best Local Similarity 44.4%; Pred. No. 5.5e+02;
Matches 4; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

Qy      1 QQLRREYV 9
       :|||:|
Db      1254 QELIKELY 1262

RESULT 36
US-11-079-463-5273
; Sequence 5273, Application US/11079463
; Publication No. US20060073161A1
; GENERAL INFORMATION:
; APPLICANT: Gary L. Breton
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO BACTERIOIDES FRA
; FILE REFERENCE: PATH00-03DIV2
; CURRENT APPLICATION NUMBER: US/11/079,463
; CURRENT FILING DATE: 2005-03-14
; PRIOR APPLICATION NUMBER: US 60/128,705
; PRIOR FILING DATE: 1999-04-09
; PRIOR APPLICATION NUMBER: US 09/540,209
; PRIOR FILING DATE: 2000-04-04
```

```

; NUMBER OF SEQ ID NOS: 10444
; SEQ ID NO 5273
; LENGTH: 136
; TYPE: PRT
; ORGANISM: B.fragilis
US-11-079-463-5273

Query Match          65.9%; Score 29; DB 11; Length 136;
Best Local Similarity 71.4%; Pred. No. 66;
Matches 5; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy      3 LLRREYV 9
       :||:|
Db      1 ILRREYV 7

RESULT 37
US-10-530-253-18
; Sequence 18, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Cassecci, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 18
; LENGTH: 149
; TYPE: PRT
; ORGANISM: Human papillomavirus type 35
US-10-530-253-18

Query Match          65.9%; Score 29; DB 9; Length 149;
Best Local Similarity 66.7%; Pred. No. 73;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Qy      1 QQLRREYV 9
       :|||:|
Db      35 QELORSEYV 43

RESULT 38
US-11-045-004-1392
; Sequence 1392, Application US/11045004
; Publication No. US20060078901A1
; GENERAL INFORMATION:
; APPLICANT: BUCHRISSER, CARMEN
; APPLICANT: FRANGIULI, LIONEL
; APPLICANT: COUVE, ELISABETH
; APPLICANT: RUSNIOK, CHRISTOPHE
; APPLICANT: FSIHI, HAFIDA
; APPLICANT: DEHOUX, PIERRE
; APPLICANT: DISSURGET, OLIVIER
; APPLICANT: CHETOURANI, PARID
; APPLICANT: NEJARI, HAFED
; APPLICANT: KUNST, PHILIPPE
; APPLICANT: COSSART, PASCAL
; APPLICANT: DANIELS, JUSTIN
; APPLICANT: GOBBEL, WERNER
; APPLICANT: KREFT, JURGEN
; APPLICANT: KUHN, MICHAEL
; APPLICANT: NG, EVA
; APPLICANT: VAZQUEZ-BOLAND, ANTONIO
```



```
APPLICANT: DOMINGUEZ-BERNAL, GUSTAVO
APPLICANT: GARRIDO-GARCIA, PATRICIA
APPLICANT: TIERREZ-MARTINEZ, ALBERTO
APPLICANT: AMEND, ALEXANDRA
APPLICANT: CHAKRABORTY, TRINAD
APPLICANT: DOMANN, EUGEN
APPLICANT: HAIN, THORSTEN
APPLICANT: BERGE, PATRICK
APPLICANT: CHARBIT, ALAIN
APPLICANT: DURANT, LIONEL
APPLICANT: PEREZ-DIAZ, JOSE-CLAUDIO
APPLICANT: BAQUERO, FERNANDO
APPLICANT: GARCIA DEL PORTILLO, FRANCISCO
APPLICANT: GOMEZ-LOPEZ, NURIA
APPLICANT: MADUENIO, ENCARN
APPLICANT: PABLOS, BETRIZ DE
APPLICANT: WEHLAND, JURGEN
APPLICANT: KARST, UWE
APPLICANT: ENTIAN, KARL-DIETER
APPLICANT: HAUF, JORG
APPLICANT: ROSE, MATTHIAS
APPLICANT: VOSS, HAMUT
APPLICANT: VOSSE, HAMUT
TITLE OF INVENTION: LISTERIA MONOCYTOGENES GENOME, POLYPEPTIDES AND USES
FILE REFERENCE: 05394.0018-02
CURRENT APPLICATION NUMBER: US/11/045,004
CURRENT FILING DATE: 2005-01-28
PRIOR APPLICATION NUMBER: 10/637,657
PRIOR FILING DATE: 2003-08-11
PRIOR APPLICATION NUMBER: 10/257,023
PRIOR FILING DATE: 2002-10-08
PRIOR APPLICATION NUMBER: PCT/FR01/01118
PRIOR FILING DATE: 2001-04-11
PRIOR APPLICATION NUMBER: FR 00/04,629
PRIOR FILING DATE: 2000-04-11
NUMBER OF SEQ ID NOS: 2854
SOFTWARE: Patent version 3.3
SEQ ID NO: 1392
LENGTH: 285
TYPE: PRT
ORGANISM: Listeria monocytogenes
US-11-045-004-1392
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Query Match 65.9%; Score 29; DB 11; Length 285;
Best Local Similarity 62.5%; Pred. No. 1.5e+02;
Matches 5; Conservative 3; Mismatches 0; Indels 0; Gaps 0;
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QY 1 QOLLRREV 8
DB 214 QOLLRKEI 221
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RESULT 39
US-11-188-298-8666
Sequence 8666, Application US/11188298
Publication No. US20060075522A1
GENERAL INFORMATION:
APPLICANT: Abad, Mark S. et al.
TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
FILE REFERENCE: 38-21(53452)B
CURRENT APPLICATION NUMBER: US/11/188,298
CURRENT FILING DATE: 2005-07-22
PRIOR APPLICATION NUMBER: 60/592,978
PRIOR FILING DATE: 2004-07-31
NUMBER OF SEQ ID NOS: 22569
SEQ ID NO: 8666
LENGTH: 322
TYPE: PRT
ORGANISM: Bacillus licheniformis
US-11-188-298-8666
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Query Match 65.9%; Score 29; DB 11; Length 322;
Best Local Similarity 55.6%; Pred. No. 1.7e+02;
Matches 5; Conservative 4; Mismatches 0; Indels 0; Gaps 0;
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QY 1 QOLLRREV 9
DB 191 QOLLRKDVH 199
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RESULT 40
US-11-188-298-18584
Sequence 18584, Application US/11188298
Publication No. US20060075522A1
GENERAL INFORMATION:
APPLICANT: Abad, Mark S. et al.
TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
FILE REFERENCE: 38-21(53452)B
CURRENT APPLICATION NUMBER: US/11/188,298
CURRENT FILING DATE: 2005-07-22
PRIOR APPLICATION NUMBER: 60/592,978
PRIOR FILING DATE: 2004-07-31
NUMBER OF SEQ ID NOS: 22569
SEQ ID NO: 18584
LENGTH: 431
TYPE: PRT
ORGANISM: Arabidopsis thaliana
US-11-188-298-18584
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Query Match 65.9%; Score 29; DB 11; Length 431;
Best Local Similarity 85.7%; Pred. No. 2.3e+02;
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
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QY 1 QOLLRRE 7
DB 337 QOLLRRE 343
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RESULT 41
US-11-045-004-2771
Sequence 2771, Application US/11045004
Publication No. US20060078901A1
GENERAL INFORMATION:
APPLICANT: BUCHRIEGER, CARMEN
APPLICANT: FRANGULI, LIONEL
APPLICANT: COUVE, ELISABETH
APPLICANT: RUSNIOK, CHRISTOPHE
APPLICANT: FISHI, HARIDA
APPLICANT: DEHOUX, PIERRE
APPLICANT: DUSSENET, OLIVIER
APPLICANT: CHEFOUANI, FARID
APPLICANT: MEDJARI, HAFED
APPLICANT: GLASER, PHILIPPE
APPLICANT: KUNST, FRANCK
APPLICANT: COSSART, PASCALE
APPLICANT: DANIELS, JUSTIN
APPLICANT: GOEBEL, WERNER
APPLICANT: KREFT, JURGEN
APPLICANT: KUH, MICHAEL
APPLICANT: NG, EVA
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APPLICANT: AMEND, ALEXANDRA
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APPLICANT: BERGE, PATRICK
APPLICANT: CHARBIT, ALAIN
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APPLICANT: PEREZ-DIAZ, JOSE-CLAUDIO
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APPLICANT: GARCIA DEL PORTILLO, FRANCISCO
APPLICANT: GOMEZ-LOPEZ, NURIA
APPLICANT: MADUENIO, ENCARN
APPLICANT: PABLOS, BETRIZ DE
```

```
; APPLICANT: WEHLAND, JURGEN
; APPLICANT: KARST, UWE
; APPLICANT: ENTIAN, KARL-DIETER
; APPLICANT: HAUF, JORG
; APPLICANT: ROSE, MATTHIAS
; APPLICANT: VOSS, HAMUT
; TITLE OF INVENTION: LISTERIA MONOCYTOGENES GENOME, POLYPEPTIDES AND USES
; FILE REFERENCE: 05394.0018-02
; CURRENT APPLICATION NUMBER: US/11/045.004
; CURRENT FILING DATE: 2005-01-28
; PRIOR APPLICATION NUMBER: 10/637,657
; PRIOR FILING DATE: 2003-08-11
; PRIOR APPLICATION NUMBER: 10/257,023
; PRIOR FILING DATE: 2002-10-08
; PRIOR APPLICATION NUMBER: PCT/FR01/01118
; PRIOR FILING DATE: 2001-04-11
; PRIOR APPLICATION NUMBER: FR 00/04,629
; PRIOR FILING DATE: 2000-04-11
; NUMBER OF SEQ ID NOS: 2854
; SOFTWARE: Patentin version 3.3
; SEQ ID NO 2771
; LENGTH: 463
; TYPE: PRT
; ORGANISM: Listeria monocytogenes
US-11-045-004-2771

Query Match      65.9%; Score 29; DB 11; Length 463;
Best Local Similarity 55.6%; Pred. No. 2.5e+02;
Matches 5; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

Qy      1 QQLRRREV 9
Db      432 QQLRRREV 440

RESULT 42
US-10-537-075-11
; Sequence 11, Application US/10537075
; Publication No. US20060014291A1
; GENERAL INFORMATION:
; APPLICANT: Kesselner, Maria
; APPLICANT: Zelinaki, Thomas
; APPLICANT: Hauser, Bernhard
; TITLE OF INVENTION: L-RHAMNOSYL-INDUCIBLE EXPRESSION SYSTEMS
; FILE REFERENCE: 12810-00091-US
; CURRENT APPLICATION NUMBER: US/10/537,075
; CURRENT FILING DATE: 2005-06-01
; PRIOR APPLICATION NUMBER: PCT/EP2003/013367
; PRIOR FILING DATE: 2003-11-27
; PRIOR APPLICATION NUMBER: DE 102 56 381.0
; PRIOR FILING DATE: 2002-12-02
; NUMBER OF SEQ ID NOS: 19
; SOFTWARE: Patentin version 3.3
; SEQ ID NO 11
; LENGTH: 489
; TYPE: PRT
; ORGANISM: Escherichia coli
US-10-537-075-11

Query Match      65.9%; Score 29; DB 9; Length 489;
Best Local Similarity 55.6%; Pred. No. 2.7e+02;
Matches 5; Conservative 3; Mismatches 1; Indels 0; Gaps 0;
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; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: Genes and Uses for Plant Improvement
; FILE REFERENCE: 38-21(53450)B EP
; CURRENT APPLICATION NUMBER: US/11/087,099
; CURRENT FILING DATE: 2005-03-22
; NUMBER OF SEQ ID NOS: 12464
; SEQ ID NO 5526
; LENGTH: 643
; TYPE: PRT
; ORGANISM: Rhodospseudomonas palustris
US-11-087-099-5526

Query Match      65.9%; Score 29; DB 11; Length 643;
Best Local Similarity 85.7%; Pred. No. 3.6e+02;
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy      2 QQLRRREV 8
Db      542 QQLRRREV 548

RESULT 44
US-11-096-568A-3609
; Sequence 3609, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
; APPLICANT: Alexandrov, Nikolai et al.
; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
; FILE REFERENCE: 2750-1592PUS2
; CURRENT APPLICATION NUMBER: US/11/096,568A
; CURRENT FILING DATE: 2005-04-01
; NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 3609
; LENGTH: 84
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1)..(84)
; OTHER INFORMATION: Ceres Seq. ID no. 13503115
US-11-096-568A-3609

Query Match      63.6%; Score 28; DB 11; Length 84;
Best Local Similarity 62.5%; Pred. No. 63;
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy      2 QQLRRREV 9
Db      55 QQLRRREV 62

RESULT 45
US-11-096-568A-3608
; Sequence 3608, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
; APPLICANT: Alexandrov, Nikolai et al.
; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
; FILE REFERENCE: 2750-1592PUS2
; CURRENT APPLICATION NUMBER: US/11/096,568A
; CURRENT FILING DATE: 2005-04-01
; NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 3608
; LENGTH: 112
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1)..(112)
; OTHER INFORMATION: Ceres Seq. ID no. 13503314
US-11-096-568A-3608
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Query Match 63.6%; Score 28; DB 11; Length 112;
Best Local Similarity 62.5%; Pred. No. 86;
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 2 QLLRREYV 9
|||:|
Db 83 QLYRRDLY 90

RESULT 46
US-11-079-463-10119
; Sequence 10119, Application US/11079463
; Publication No. US20060073161A1
; GENERAL INFORMATION:

APPLICANT: Gary L. Breton
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO BACTERIOIDES FRA
; FILE REFERENCE: PATH00-03DIV2
; CURRENT FILING DATE: 2005-03-14
; PRIOR APPLICATION NUMBER: US/11/079,463
; PRIOR FILING DATE: 1998-04-09
; PRIOR APPLICATION NUMBER: US 60/128,705
; PRIOR FILING DATE: 2000-04-04
; NUMBER OF SEQ ID NOS: 10444
; SEQ ID NO 10119
; LENGTH: 116
; TYPE: PRT
; ORGANISM: B. fragilis
US-11-079-463-10119

Query Match 63.6%; Score 28; DB 11; Length 116;
Best Local Similarity 75.0%; Pred. No. 90;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 2 QLLRREYV 9
|||:|
Db 30 RLLRRERY 37

RESULT 47
US-11-096-568A-1014
; Sequence 1014, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
APPLICANT: Alexandrov, Nikolai et al.
; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
; FILE REFERENCE: 2750-1592PUS2
; CURRENT APPLICATION NUMBER: US/11/096,568A
; CURRENT FILING DATE: 2005-04-01
; NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 1014
; LENGTH: 117
; TYPE: PRT
; ORGANISM: Zea mays subsp. mays
; FEATURE:
NAME/KEY: misc.feature
; LOCATION: (1)..(117)
; OTHER INFORMATION: Ceres Seq. ID no. 15218611
US-11-096-568A-1014

Query Match 63.6%; Score 28; DB 11; Length 117;
Best Local Similarity 50.0%; Pred. No. 90;
Matches 4; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

Qy 2 QLLRREYV 9
|||:|
Db 87 BLKRRKIY 94

RESULT 48

US-11-096-568A-1013

; Sequence 1013, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
APPLICANT: Alexandrov, Nikolai et al.
; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
; FILE REFERENCE: 2750-1592PUS2
; CURRENT APPLICATION NUMBER: US/11/096,568A
; CURRENT FILING DATE: 2005-04-01
; NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 1013
; LENGTH: 150
; TYPE: PRT
; ORGANISM: Zea mays subsp. mays
; FEATURE:
NAME/KEY: misc.feature
; LOCATION: (1)..(150)
; OTHER INFORMATION: Ceres Seq. ID no. 15218610
US-11-096-568A-1013

Query Match 63.6%; Score 28; DB 11; Length 150;
Best Local Similarity 50.0%; Pred. No. 1.2e+02;
Matches 4; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

Qy 2 QLLRREYV 9
|||:|
Db 120 BLKRRKIY 127

RESULT 49
US-10-530-253-26
; Sequence 26, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
APPLICANT: Cassetti, Maria C.
APPLICANT: Smith, Larry
APPLICANT: Jeffrey K. Pullen
APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 26
; LENGTH: 158
; TYPE: PRT
; ORGANISM: Human papillomavirus type 68
US-10-530-253-26

Query Match 63.6%; Score 28; DB 9; Length 158;
Best Local Similarity 66.7%; Pred. No. 1.3e+02;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Qy 1 QLLRREYV 9
|||:|
Db 37 RQLRREYV 45

RESULT 50
US-11-096-568A-1012
; Sequence 1012, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
APPLICANT: Alexandrov, Nikolai et al.
; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
; FILE REFERENCE: 2750-1592PUS2

; CURRENT APPLICATION NUMBER: US/11/096,568A
; CURRENT FILING DATE: 2005-04-01
; NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 1012
; LENGTH: 204
; TYPE: PRT
; ORGANISM: Zea mays subsp. mays
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)..(204)
; OTHER INFORMATION: Ceres Seq. ID no. 15218609
US-11-096-568A-1012

Query Match 63.6%; Score 28; DB 11; Length 204;
Best Local Similarity 50.0%; Pred. No. 1.7e+02;
Matches 4; Conservative 4; Mismatches 0; Indels 0; Gaps 0;
QY 2 QLRREVY 9
Db 174 ELKRKLY 181

Search completed: May 5, 2006, 07:56:40
Job time : 10.4 secs

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OW protein - protein search, using SW model

Run on: May 5, 2006, 04:48:55 ; Search time 20.7 Seconds
(without alignments)
35.946 Million cell updates/sec

Title: US-08-170-344-44
Perfect score: 52
Sequence: 1 IYVRDGNPY 9

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Gapop 10.0 , Gapext 0.5

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Total number of hits satisfying chosen parameters: 572060

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 1000 summaries

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- 4: /cgn2_6/ptodata/1/1aa/PTCUS-COMB.pep:*
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- 6: /cgn2_6/ptodata/1/1aa/Backfile1.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	52	100.0	9	US-08-159-339A-133	Sequence 133, App
2	52	100.0	22	US-09-980-523A-6	Sequence 6, Appl
3	52	100.0	23	US-09-601-729-276	Sequence 276, App
4	52	100.0	151	US-09-701-080C-18	Sequence 18, Appl
5	52	100.0	158	US-09-980-523A-2	Sequence 2, Appl
6	52	100.0	162	US-08-316-239B-3	Sequence 3, Appl
7	52	100.0	162	US-08-316-239B-4	Sequence 4, Appl
8	52	100.0	172	US-08-860-165-14	Sequence 14, Appl
9	52	100.0	172	US-09-359-382-14	Sequence 14, Appl
10	52	100.0	243	US-09-462-993-1	Sequence 1, Appl
11	52	100.0	266	US-08-860-165-10	Sequence 10, Appl
12	52	100.0	266	US-09-359-382-10	Sequence 10, Appl
13	52	100.0	266	US-09-367-309A-1	Sequence 1, Appl
14	52	100.0	273	US-09-485-885-4	Sequence 4, Appl
15	52	100.0	292	US-09-485-885-10	Sequence 10, Appl
16	52	100.0	371	US-09-485-885-6	Sequence 6, Appl
17	52	100.0	390	US-09-485-885-14	Sequence 14, Appl
18	44	84.6	9	US-08-159-339A-219	Sequence 219, App
19	40	76.9	20	US-08-934-915-161	Sequence 161, App
20	40	76.9	197	US-09-902-540-12611	Sequence 12611, A
21	38	73.1	390	US-09-328-352-4913	Sequence 4913, Ap
22	37	71.2	9	US-09-574-749B-42	Sequence 42, Appl
23	37	71.2	22	US-10-672-818-4	Sequence 4, Appl
24	37	71.2	484	US-08-111-939-12	Sequence 12, Appl
25	37	71.2	719	US-09-641-741-28	Sequence 28, Appl
26	37	71.2	845	US-09-641-741-29	Sequence 29, Appl
27	37	71.2	1128	US-08-111-939-2	Sequence 2, Appl

37	71.2	1128	2	US-09-641-741-30	Sequence 30, Appl
29	71.2	1128	2	US-09-060-482-8	Sequence 8, Appl
30	71.2	1128	2	US-09-060-482-2	Sequence 2, Appl
31	71.2	1172	2	US-09-949-016-8593	Sequence 8593, Ap
32	69.2	100	2	US-09-472-087-113	Sequence 113, App
33	69.2	100	2	US-10-194-975-75	Sequence 75, Appl
34	69.2	100	2	US-10-194-975-76	Sequence 76, Appl
35	69.2	112	1	US-07-942-245-28	Sequence 28, Appl
36	69.2	112	2	US-09-840-459-56	Sequence 56, Appl
37	69.2	112	2	US-09-840-459-66	Sequence 66, Appl
38	69.2	112	2	US-09-840-459-70	Sequence 70, Appl
39	69.2	112	2	US-09-497-625A-56	Sequence 56, Appl
40	69.2	112	2	US-09-497-625A-66	Sequence 66, Appl
41	69.2	112	2	US-09-497-625A-70	Sequence 70, Appl
42	69.2	112	2	US-09-254-180C-8	Sequence 8, Appl
43	69.2	139	2	US-09-472-087-25	Sequence 25, Appl
44	69.2	139	2	US-09-472-087-114	Sequence 114, App
45	69.2	253	2	US-09-710-279-2428	Sequence 2428, Ap
46	69.2	281	2	US-09-134-001C-3445	Sequence 3445, Ap
47	69.2	389	2	US-09-949-016-10069	Sequence 10069, A
48	69.2	476	2	US-09-949-016-6905	Sequence 6905, Ap
49	69.2	581	2	US-09-534-407-3	Sequence 3, Appl
50	69.2	581	2	US-09-999-201B-4	Sequence 4, Appl
51	69.2	581	2	US-10-281-673A-4	Sequence 4, Appl
52	69.2	803	2	US-09-543-681A-5399	Sequence 5399, Ap
53	69.2	1391	2	US-10-080-505-11	Sequence 11, Appl
54	69.2	1391	2	US-10-080-505-15	Sequence 15, Appl
55	69.2	138	2	US-09-605-703B-24	Sequence 24, Appl
56	69.2	216	2	US-09-605-703B-22	Sequence 22, Appl
57	69.2	415	2	US-09-248-796A-19656	Sequence 19656, A
58	69.2	566	2	US-09-134-000C-4385	Sequence 4385, Ap
59	69.2	566	2	US-09-081-365-152	Sequence 152, App
60	69.2	849	2	US-09-752-639-152	Sequence 152, App
61	69.2	849	2	US-09-712-813-152	Sequence 152, App
62	69.2	849	2	US-09-700-354A-152	Sequence 152, App
63	69.2	2491	2	US-09-207-363-1	Sequence 1, Appl
64	69.2	88	2	US-09-489-039A-11825	Sequence 11825, A
65	69.2	236	2	US-09-248-796A-14207	Sequence 14207, A
66	69.2	244	2	US-09-252-991A-24756	Sequence 24756, A
67	69.2	258	2	US-09-248-796A-14208	Sequence 14208, A
68	69.2	331	2	US-09-489-039A-9605	Sequence 9605, Ap
69	69.2	393	2	US-09-248-796A-16286	Sequence 16286, A
70	69.2	398	2	US-08-931-220-5	Sequence 5, Appl
71	69.2	398	2	US-10-030-330-6	Sequence 6, Appl
72	69.2	398	4	PCT-US95-11723-5	Sequence 1, Appl
73	69.2	398	4	PCT-US96-05997-1	Sequence 1, Appl
74	69.2	440	2	US-09-134-000C-4353	Sequence 4353, Ap
75	69.2	469	2	US-09-902-540-16788	Sequence 16788, A
76	69.2	513	2	US-09-914-259-31	Sequence 31, Appl
77	69.2	513	2	US-09-060-804-14	Sequence 14, Appl
78	69.2	518	2	US-09-104-047-3059	Sequence 3059, Ap
79	69.2	548	2	US-09-914-259-30	Sequence 30, Appl
80	69.2	600	2	US-09-543-681A-5780	Sequence 5780, Ap
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82	69.2	655	2	US-09-632-538C-36	Sequence 36, Appl
83	69.2	686	2	US-09-914-259-33	Sequence 33, Appl
84	69.2	9	2	US-09-593-870A-30	Sequence 30, Appl
85	69.2	9	2	US-09-601-171-3	Sequence 3, Appl
86	69.2	16	4	PCT-US95-04975-6	Sequence 6, Appl
87	69.2	16	1	US-08-672-345C-19	Sequence 19, Appl
88	69.2	16	1	US-08-672-345C-28	Sequence 28, Appl
89	69.2	16	2	US-09-214-095D-19	Sequence 19, Appl
90	69.2	16	2	US-09-114-095D-28	Sequence 28, Appl
91	69.2	16	2	US-09-940-727B-19	Sequence 19, Appl
92	69.2	16	2	US-09-940-727B-28	Sequence 28, Appl
93	69.2	61	2	US-09-248-796A-24735	Sequence 24735, A
94	69.2	113	1	US-08-672-345C-5	Sequence 5, Appl
95	69.2	113	1	US-08-672-345C-6	Sequence 6, Appl
96	69.2	113	1	US-08-672-345C-7	Sequence 7, Appl
97	69.2	113	1	US-08-672-345C-95	Sequence 95, Appl
98	69.2	113	1	US-08-672-345C-96	Sequence 96, Appl
99	69.2	113	1	US-08-672-345C-97	Sequence 97, Appl
100	69.2	113	2	US-09-214-095D-5	Sequence 5, Appl

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102	33	63.5	113	2	US-09-214-095D-7	Sequence 7, Appli	175	32	61.5	374	2	US-09-902-540-15939	Sequence 15939, A
103	33	63.5	113	2	US-09-214-095D-100	Sequence 100, App	176	32	61.5	384	2	US-09-134-001C-5292	Sequence 5292, Ap
104	33	63.5	113	2	US-09-214-095D-104	Sequence 104, App	177	32	61.5	388	2	US-09-248-796A-23455	Sequence 23455, A
105	33	63.5	113	2	US-09-214-095D-112	Sequence 112, App	178	32	61.5	393	2	US-09-540-236-2186	Sequence 2186, Ap
106	33	63.5	113	2	US-09-940-727B-5	Sequence 5, Appli	179	32	61.5	438	2	US-09-252-991A-29900	Sequence 29900, A
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109	33	63.5	113	2	US-09-940-727B-100	Sequence 100, App	182	32	61.5	591	2	US-09-821-616-7	Sequence 7, Appli
110	33	63.5	113	2	US-09-940-727B-104	Sequence 104, App	183	32	61.5	618	2	US-09-199-290-34	Sequence 34, Appli
111	33	63.5	113	2	US-09-940-727B-112	Sequence 112, App	184	32	61.5	618	2	US-09-821-616-34	Sequence 34, Appli
112	33	63.5	179	2	US-09-710-279-1808	Sequence 119, App	185	32	61.5	648	2	US-09-107-532A-5531	Sequence 5531, Ap
113	33	63.5	180	2	US-09-134-001C-4215	Sequence 4215, Ap	186	32	61.5	662	2	US-09-605-703B-2124	Sequence 2124, Ap
114	33	63.5	192	2	US-09-252-991A-21776	Sequence 21776, A	187	32	61.5	663	2	US-08-776-265-5	Sequence 5, Appli
115	33	63.5	222	2	US-09-479-614-26	Sequence 26, Appli	188	32	61.5	663	2	US-09-398-184-5	Sequence 5, Appli
116	33	63.5	242	2	US-09-479-614-20	Sequence 20, Appli	189	32	61.5	664	2	US-09-710-279-346	Sequence 346, App
117	33	63.5	275	2	US-09-828-523A-4	Sequence 4, Appli	190	32	61.5	775	2	US-10-043-774B-2	Sequence 2, Appli
118	33	63.5	280	2	US-09-214-095D-119	Sequence 119, App	191	32	61.5	824	1	US-08-221-750A-3	Sequence 3, Appli
119	33	63.5	284	2	US-09-940-727B-119	Sequence 119, App	192	32	61.5	829	2	US-10-104-047-3439	Sequence 3439, Ap
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121	33	63.5	320	2	US-09-252-991A-29355	Sequence 29355, A	194	32	61.5	862	2	US-09-873-737A-4	Sequence 4, Appli
122	33	63.5	386	2	US-09-134-001C-3770	Sequence 3770, Ap	195	32	61.5	919	2	US-08-965-916-16	Sequence 16, Appli
123	33	63.5	389	2	US-09-252-991A-30972	Sequence 30972, A	196	32	61.5	1006	2	US-09-949-016-8421	Sequence 8421, Ap
124	33	63.5	416	2	US-09-537-642-2	Sequence 2, Appli	197	32	61.5	1006	2	US-09-949-016-8530	Sequence 8530, Ap
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129	33	63.5	517	2	US-10-180-165-2	Sequence 2, Appli	202	31	59.6	21	2	US-10-045-170A-12	Sequence 12, Appli
130	33	63.5	517	2	US-09-198-452A-446	Sequence 446, App	203	31	59.6	27	2	US-10-044-708A-24	Sequence 24, Appli
131	33	63.5	521	2	US-09-438-185A-429	Sequence 429, App	204	31	59.6	30	2	US-09-714-865-9	Sequence 9, Appli
132	33	63.5	527	2	US-09-902-540-13101	Sequence 13101, A	205	31	59.6	64	2	US-09-632-287A-15	Sequence 15, Appli
133	33	63.5	529	2	US-09-537-642-1	Sequence 1, Appli	206	31	59.6	64	2	US-10-286-696-15	Sequence 15, Appli
134	33	63.5	560	2	US-09-252-991A-22343	Sequence 22343, A	207	31	59.6	72	1	US-08-450-944-7	Sequence 7, Appli
135	33	63.5	578	2	US-09-503-172A-2	Sequence 2, Appli	208	31	59.6	72	4	PCT-US96-07709-7	Sequence 7, Appli
136	33	63.5	600	2	US-09-252-991A-29817	Sequence 29817, A	209	31	59.6	74	2	US-09-248-796A-24469	Sequence 24469, A
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138	33	63.5	626	2	US-09-948-722-2	Sequence 2, Appli	211	31	59.6	96	2	US-09-270-767-52044	Sequence 52044, A
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140	33	63.5	793	2	US-08-374-077C-4	Sequence 4, Appli	213	31	59.6	101	2	US-09-270-767-33441	Sequence 33441, A
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145	33	63.5	914	2	US-10-043-418-2	Sequence 2, Appli	218	31	59.6	111	2	US-09-840-459-11	Sequence 11, Appli
146	33	63.5	1063	2	US-09-270-767-44682	Sequence 44682, A	219	31	59.6	111	2	US-08-459-59	Sequence 59, Appli
147	33	63.5	1348	2	US-09-949-002-517	Sequence 517, App	220	31	59.6	111	2	US-09-497-625A-11	Sequence 59, Appli
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149	33	63.5	1872	6	US-09-949-016-11611	Sequence 11611, A	222	31	59.6	112	1	US-08-472-281A-89	Sequence 89, Appli
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151	33	63.5	1873	1	US-08-336-257A-7	Sequence 7, Appli	224	31	59.6	112	1	US-08-472-281A-89	Sequence 89, Appli
152	33	63.5	2196	2	US-10-360-101-259	Sequence 259, App	225	31	59.6	112	2	US-09-840-459-58	Sequence 58, Appli
153	33	63.5	2224	2	US-09-054-272-38	Sequence 38, Appli	226	31	59.6	112	2	US-09-840-459-69	Sequence 69, Appli
154	33	63.5	2224	2	US-09-949-002-292	Sequence 292, App	227	31	59.6	112	2	US-09-497-625A-58	Sequence 58, Appli
155	32	61.5	20	1	US-08-934-915-162	Sequence 162, App	228	31	59.6	112	2	US-09-462-140D-97	Sequence 97, Appli
156	32	61.5	74	2	US-09-248-796A-21310	Sequence 21310, A	229	31	59.6	112	2	US-09-462-140D-97	Sequence 97, Appli
157	32	61.5	111	1	US-07-942-245-25	Sequence 25, Appli	230	31	59.6	113	2	US-09-840-459-63	Sequence 63, Appli
158	32	61.5	111	1	US-07-942-245-27	Sequence 27, Appli	231	31	59.6	113	2	US-09-497-625A-63	Sequence 63, Appli
159	32	61.5	111	1	US-07-942-245-29	Sequence 29, Appli	232	31	59.6	124	1	US-08-184-604-2	Sequence 2, Appli
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162	32	61.5	112	2	US-09-840-459-61	Sequence 61, Appli	235	31	59.6	130	1	US-08-225-989-21	Sequence 21, Appli
163	32	61.5	112	2	US-09-840-459-62	Sequence 62, Appli	236	31	59.6	130	1	US-08-570-923-21	Sequence 21, Appli
164	32	61.5	112	2	US-09-497-625A-61	Sequence 61, Appli	237	31	59.6	130	1	US-08-500-014-21	Sequence 21, Appli
165	32	61.5	112	2	US-09-497-625A-62	Sequence 62, Appli	238	31	59.6	130	2	US-09-079-785-21	Sequence 21, Appli
166	32	61.5	126	2	US-09-599-360B-102	Sequence 102, App	239	31	59.6	132	2	US-09-628-126-21	Sequence 21, Appli
167	32	61.5	126	2	US-09-471-276-1559	Sequence 1559, Ap	240	31	59.6	132	2	US-09-377-502-52	Sequence 52, Appli
168	32	61.5	234	2	US-09-252-991A-21655	Sequence 21655, A	241	31	59.6	137	2	US-09-913-204-17	Sequence 17, Appli
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171	32	61.5	313	2	US-09-902-540-10716	Sequence 10716, A	244	31	59.6	158	2	US-08-767-942A-19	Sequence 19, Appli
172	32	61.5	320	2	US-09-248-796A-18068	Sequence 18068, A	245	31	59.6	161	2	US-09-540-236-3245	Sequence 3245, Ap
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252	31	59.6	201	2	US-09-515-311-12	Sequence 12, Appl
253	31	59.6	201	2	US-10-434-817-12	Sequence 12, Appl
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258	31	59.6	220	1	US-08-580-014-19	Sequence 19, Appl
259	31	59.6	220	2	US-09-079-785-19	Sequence 19, Appl
260	31	59.6	220	2	US-09-628-126-19	Sequence 19, Appl
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263	31	59.6	236	2	US-09-015-734-7	Sequence 7, Appl
264	31	59.6	236	2	US-09-515-311-7	Sequence 7, Appl
265	31	59.6	236	2	US-10-434-817-7	Sequence 7, Appl
266	31	59.6	239	1	US-08-225-989-6	Sequence 6, Appl
267	31	59.6	239	1	US-08-570-923-6	Sequence 6, Appl
268	31	59.6	239	1	US-08-580-014-6	Sequence 6, Appl
269	31	59.6	239	2	US-09-079-785-6	Sequence 6, Appl
270	31	59.6	239	2	US-09-921-667-4	Sequence 4, Appl
271	31	59.6	239	2	US-09-628-126-6	Sequence 25, Appl
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274	31	59.6	255	2	US-09-515-311-2	Sequence 2, Appl
275	31	59.6	255	2	US-10-434-817-2	Sequence 2, Appl
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278	31	59.6	275	2	US-09-328-352-7814	Sequence 7814, Ap
279	31	59.6	278	2	US-09-485-885-21	Sequence 21, Appl
280	31	59.6	284	2	US-09-902-540-14648	Sequence 14648, A
281	31	59.6	288	2	US-09-134-001C-3292	Sequence 3292, Ap
282	31	59.6	291	1	US-07-952-817-26	Sequence 26, Appl
283	31	59.6	306	2	US-09-489-039A-12243	Sequence 12243, A
284	31	59.6	335	2	US-09-949-016-11616	Sequence 11616, A
285	31	59.6	348	2	US-09-902-540-15695	Sequence 15695, A
286	31	59.6	370	2	US-09-583-110-3965	Sequence 3965, Ap
287	31	59.6	383	2	US-09-485-885-23	Sequence 23, Appl
288	31	59.6	391	2	US-09-242-095-4	Sequence 44, Appl
289	31	59.6	396	2	US-09-538-092-440	Sequence 440, App
290	31	59.6	404	2	US-09-489-039A-13783	Sequence 13783, A
291	31	59.6	417	2	US-09-276-400-5	Sequence 5, Appl
292	31	59.6	417	2	US-09-242-095-2	Sequence 2, Appl
293	31	59.6	417	2	US-09-448-076-5	Sequence 5, Appl
294	31	59.6	417	2	US-09-702-572-5	Sequence 5, Appl
295	31	59.6	431	2	US-09-949-016-10182	Sequence 10182, A
296	31	59.6	434	2	US-09-248-796A-14658	Sequence 14658, A
297	31	59.6	460	2	US-09-569-611C-39	Sequence 39, Appl
298	31	59.6	461	2	US-09-102-528-25	Sequence 25, Appl
299	31	59.6	461	2	US-09-927-091-1	Sequence 1, Appl
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301	31	59.6	540	2	US-10-223-355-2	Sequence 2, Appl
302	31	59.6	540	2	US-09-621-448-2	Sequence 2, Appl
303	31	59.6	550	2	US-09-396-478A-2	Sequence 2, Appl
304	31	59.6	557	2	US-09-949-016-6279	Sequence 6279, Ap
305	31	59.6	558	2	US-09-328-352-5560	Sequence 5560, Ap
306	31	59.6	564	2	US-09-949-016-9503	Sequence 9503, Ap
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308	31	59.6	591	1	US-08-889-402-1	Sequence 1, Appl
309	31	59.6	605	1	US-08-889-402-2	Sequence 2, Appl
310	31	59.6	626	1	US-08-596-300A-7	Sequence 7, Appl
311	31	59.6	626	1	US-08-596-300A-14	Sequence 14, Appl
312	31	59.6	654	2	US-09-270-767-41452	Sequence 41452, A
313	31	59.6	724	2	US-09-714-865-2	Sequence 2, Appl
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315	31	59.6	729	2	US-09-949-016-10791	Sequence 10791, A
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317	31	59.6	741	1	US-08-477-750-7	Sequence 7, Appl
318	31	59.6	741	1	US-08-477-326-7	Sequence 7, Appl
319	31	59.6	753	2	US-09-543-681A-5022	Sequence 5022, Ap
320	31	59.6	805	1	US-08-045-806-2	Sequence 2, Appl
321	31	59.6	805	1	US-08-366-051B-2	Sequence 2, Appl
322	31	59.6	836	2	US-09-976-594-247	Sequence 247, App
323	31	59.6	857	2	US-09-949-016-6819	Sequence 6819, Ap
324	31	59.6	865	2	US-09-328-352-7498	Sequence 7498, Ap
325	31	59.6	894	2	US-09-949-016-10324	Sequence 10324, A
326	31	59.6	1278	2	US-10-042-810-4	Sequence 4, Appl
327	31	59.6	1330	2	US-08-631-603-2	Sequence 2, Appl
328	31	59.6	1330	2	US-08-226-791-2	Sequence 2, Appl
329	31	59.6	1394	2	US-09-839-996-2	Sequence 2, Appl
330	31	59.6	1394	2	US-10-080-505-2	Sequence 2, Appl
331	31	59.6	1394	4	PCT-US95-10651A-2	Sequence 2, Appl
332	31	59.6	1395	2	US-10-080-505-7	Sequence 7, Appl
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339	30	57.7	38	1	US-08-471-052A-87	Sequence 87, Appl
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341	30	57.7	38	1	US-08-471-939-87	Sequence 87, Appl
342	30	57.7	38	1	US-08-471-800-87	Sequence 87, Appl
343	30	57.7	38	1	US-08-471-068-87	Sequence 87, Appl
344	30	57.7	38	1	US-09-205-258-554	Sequence 554, App
345	30	57.7	45	2	US-10-004-860-554	Sequence 58151, A
346	30	57.7	45	2	US-09-270-767-58151	Sequence 45024, A
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350	30	57.7	97	2	US-09-887-586A-40	Sequence 40, Appl
351	30	57.7	97	2	US-09-895-752-40	Sequence 40, Appl
352	30	57.7	97	2	US-09-903-012B-40	Sequence 40, Appl
353	30	57.7	97	2	US-09-900-797-40	Sequence 40, Appl
354	30	57.7	97	2	US-09-893-820-40	Sequence 40, Appl
355	30	57.7	97	2	US-09-840-459-32	Sequence 32, Appl
356	30	57.7	100	2	US-09-497-625A-32	Sequence 32, Appl
357	30	57.7	100	2	US-09-840-459-35	Sequence 55, Appl
358	30	57.7	112	2	US-09-497-625A-55	Sequence 55, Appl
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360	30	57.7	141	2	US-09-270-767-47909	Sequence 47909, A
361	30	57.7	144	2	US-09-134-001C-4218	Sequence 4218, Ap
362	30	57.7	145	2	US-09-270-767-43831	Sequence 33831, A
363	30	57.7	145	2	US-09-270-767-49048	Sequence 49048, A
364	30	57.7	145	2	US-09-902-540-12884	Sequence 14884, A
365	30	57.7	169	2	US-09-107-532A-5450	Sequence 5450, Ap
366	30	57.7	171	2	US-09-489-039A-12811	Sequence 12811, A
367	30	57.7	178	2	US-10-135-807-6	Sequence 6, Appl
368	30	57.7	182	2	US-09-252-991A-16683	Sequence 16683, A
369	30	57.7	183	2	US-09-809-665A-149	Sequence 149, App
370	30	57.7	194	1	US-08-685-992-2	Sequence 2, Appl
371	30	57.7	194	1	US-09-144-925-2	Sequence 2, Appl
372	30	57.7	199	2	US-09-311-021-194	Sequence 194, App
373	30	57.7	206	2	US-09-270-767-43990	Sequence 43990, A
374	30	57.7	228	2	US-09-219-849-38	Sequence 38, Appl
375	30	57.7	234	1	US-08-684-862-3	Sequence 3, Appl
376	30	57.7	234	1	US-09-538-092-10	Sequence 10, Appl
377	30	57.7	238	2	US-09-543-681A-5910	Sequence 5910, Ap
378	30	57.7	246	2	US-09-848-294-9	Sequence 9, Appl
379	30	57.7	254	2	US-09-134-001C-3277	Sequence 3277, Ap
380	30	57.7	254	2	US-08-426-630-22	Sequence 22, Appl
381	30	57.7	257	2	US-09-543-681A-5195	Sequence 6195, Ap
382	30	57.7	259	2	US-09-248-796A-18367	Sequence 6741, Ap
383	30	57.7	277	2	US-09-134-000C-6741	Sequence 4329, Ap
384	30	57.7	290	2	US-09-583-110-4329	Sequence 153, App
385	30	57.7	290	2	US-09-769-787-1153	Sequence 21959, A
386	30	57.7	292	2	US-10-374-539-2	Sequence 2, Appl
387	30	57.7	296	2	US-09-194-146-6	Sequence 6, Appl
388	30	57.7	300	2	US-09-107-433-2649	Sequence 2649, App
389	30	57.7	305	2	US-10-101-464A-602	Sequence 602, App
390	30	57.7	313	2	US-09-252-991A-20483	Sequence 20483, A
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395	30	57.7	353	2	US-10-217-745-4	Sequence 4, Appli
396	30	57.7	363	2	US-09-205-258-553	Sequence 553, App
397	30	57.7	363	2	US-10-004-860-553	Sequence 553, App
398	30	57.7	371	2	US-09-252-991A-29793	Sequence 29793, A
399	30	57.7	371	2	US-09-248-796A-17748	Sequence 17748, A
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407	30	57.7	426	1	US-08-454-439-17	Sequence 17, Appl
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411	30	57.7	428	2	US-08-936-094A-2	Sequence 2, Appli
412	30	57.7	428	2	US-09-829-094B-2	Sequence 2, Appli
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418	30	57.7	536	2	US-09-072-556-156	Sequence 156, App
419	30	57.7	536	2	US-09-072-967-161	Sequence 161, App
420	30	57.7	536	2	US-10-193-002-156	Sequence 156, App
421	30	57.7	536	2	US-10-084-843-161	Sequence 161, App
422	30	57.7	546	2	US-09-489-039A-9573	Sequence 9573, Ap
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425	30	57.7	553	2	US-09-964-469-2	Sequence 2, Appli
426	30	57.7	553	2	US-10-217-745-2	Sequence 24, Appli
427	30	57.7	563	2	US-10-046-232-24	Sequence 24, Appli
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434	30	57.7	616	1	US-08-385-370-4	Sequence 4, Appli
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437	30	57.7	618	2	US-09-765-271-72	Sequence 72, Appl
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459	30	57.7	806	2	US-08-193-829B-5	Sequence 5, Appli
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489	30	57.7	1366	2	US-09-570-573-19	Sequence 19, Appl
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495	30	57.7	1367	1	US-07-977-451-6	Sequence 6, Appli
496	30	57.7	1367	1	US-07-946-507-4	Sequence 4, Appli
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507	30	57.7	1367	4	PCT-US92-05401-6	Sequence 6, Appli
508	30	57.7	1367	4	PCT-US92-09893-6	Sequence 6, Appli
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511	30	57.7	1434	2	US-08-840-062-6	Sequence 6, Appli
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513	30	57.7	1722	2	US-09-949-002-341	Sequence 341, App
514	30	57.7	1723	2	US-09-194-612A-31	Sequence 31, Appl
515	30	57.7	1740	2	US-09-949-002-535	Sequence 535, App
516	30	57.7	1838	2	US-09-270-767-45188	Sequence 45188, A
517	30	57.7	2175	2	US-09-603-205A-8	Sequence 8, Appli
518	30	57.7	2175	2	US-09-252-991A-25754	Sequence 25754, A
519	30	57.7	2160	2	US-09-252-991A-25753	Sequence 25753, A
520	30	57.7	2841	2	US-09-477-962-117	Sequence 117, App
521	30	57.7	3829	2	US-09-693-205A-2	Sequence 2, Appli
522	30	57.7	3829	2	US-09-693-205A-16	Sequence 16, Appl
523	29	55.8	16	2	US-09-406-532-18	Sequence 18, Appl
524	29	55.8	20	2	US-08-861-153A-12	Sequence 12, Appl
525	29	55.8	43	1	US-10-318-675-73	Sequence 73, Appl
526	29	55.8	84	1	US-07-773-098-1	Sequence 1, Appli
527	29	55.8	84	1	US-07-773-098-2	Sequence 2, Appli
528	29	55.8	84	1	US-07-773-098-7	Sequence 7, Appli
529	29	55.8	84	1	US-07-773-098-8	Sequence 8, Appli
530	29	55.8	84	1	US-07-773-098-9	Sequence 9, Appli
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534	29	55.8	95	2	US-09-893-737-178	Sequence 178, App
535	29	55.8	96	2	US-09-513-996C-6137	Sequence 6137, App
536	29	55.8	98	2	US-09-621-976-7541	Sequence 7541, Ap
537	29	55.8	103	2	US-09-270-767-60940	Sequence 60940, A
538	29	55.8	105	2	US-09-621-976-5006	Sequence 5006, Ap

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540	29	55.8	114	1	US-08-285-936-4	Sequence 4, Appl1	613	29	55.8	305	2	US-09-568-480-22	Sequence 22, Appl
541	29	55.8	114	1	US-08-487-860-4	Sequence 4, Appl1	614	29	55.8	305	2	US-09-568-486-22	Sequence 22, Appl
542	29	55.8	116	1	US-08-687-895-3	Sequence 3, Appl1	615	29	55.8	305	2	US-09-568-472-22	Sequence 22, Appl
543	29	55.8	116	1	US-08-816-241-3	Sequence 3, Appl1	616	29	55.8	305	2	US-09-567-899-22	Sequence 22, Appl
544	29	55.8	116	1	US-09-040-482-3	Sequence 3, Appl1	617	29	55.8	305	2	US-09-248-796A-18996	Sequence 18996, A
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547	29	55.8	122	2	US-09-732-210-382	Sequence 382, App	620	29	55.8	307	2	US-09-704-640-70	Sequence 8453, App
548	29	55.8	123	2	US-09-513-999C-4391	Sequence 4391, Ap	621	29	55.8	307	2	US-09-949-016-6453	Sequence 72, Appl
549	29	55.8	124	2	US-09-798-635A-32	Sequence 32, Appl	622	29	55.8	309	2	US-09-475-316A-72	Sequence 72, Appl
550	29	55.8	129	2	US-08-858-207A-393	Sequence 393, App	623	29	55.8	309	2	US-09-704-640-72	Sequence 72, Appl
551	29	55.8	129	2	US-09-252-991A-16981	Sequence 16981, A	624	29	55.8	309	2	US-09-949-016-6457	Sequence 9457, Ap
552	29	55.8	129	2	US-09-583-110-2687	Sequence 2687, Ap	625	29	55.8	316	1	US-08-838-957A-15	Sequence 15, Appl
553	29	55.8	132	2	US-09-732-210-593	Sequence 593, App	626	29	55.8	316	1	US-10-427-923-2	Sequence 2, Appl1
554	29	55.8	134	2	US-09-107-443-4056	Sequence 4056, Ap	627	29	55.8	318	2	US-10-427-923-2	Sequence 2, Appl1
555	29	55.8	139	2	US-09-270-767-39156	Sequence 39156, A	628	29	55.8	321	2	US-09-328-352-5730	Sequence 5730, App
556	29	55.8	139	2	US-09-270-767-54373	Sequence 54373, A	629	29	55.8	338	2	US-09-199-637A-174	Sequence 174, App
557	29	55.8	146	2	US-09-543-681A-8184	Sequence 8184, Ap	630	29	55.8	338	2	US-09-252-991A-17390	Sequence 17390, A
558	29	55.8	154	2	US-09-328-352-4449	Sequence 4449, Ap	631	29	55.8	341	2	US-09-438-185A-338	Sequence 338, App
559	29	55.8	155	2	US-09-501-115-48	Sequence 48, Appl	632	29	55.8	341	2	US-10-104-047-3424	Sequence 3424, Ap
560	29	55.8	155	2	US-10-357-886-48	Sequence 48, Appl	633	29	55.8	345	1	US-08-758-621-14	Sequence 14, Appl
561	29	55.8	157	2	US-09-615-192A-399	Sequence 399, App	634	29	55.8	345	1	US-08-758-621-14	Sequence 14, Appl
562	29	55.8	159	2	US-10-101-464A-597	Sequence 597, App	635	29	55.8	345	2	US-09-579-174-14	Sequence 14, Appl
563	29	55.8	184	1	US-08-044-621D-30	Sequence 30, Appl	636	29	55.8	347	2	US-09-579-174-14	Sequence 14, Appl
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565	29	55.8	184	1	US-08-709-912-1	Sequence 1, Appl1	638	29	55.8	347	2	US-09-911-882-23	Sequence 23, Appl
566	29	55.8	184	1	US-09-047-370-1	Sequence 1, Appl1	639	29	55.8	347	2	US-09-911-882-23	Sequence 23, Appl
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570	29	55.8	185	2	US-09-230-590-2	Sequence 2, Appl1	643	29	55.8	358	2	US-09-540-226-1099	Sequence 1099, Ap
571	29	55.8	185	2	US-09-970-616-2	Sequence 2, Appl1	644	29	55.8	358	2	US-09-540-226-1099	Sequence 1099, Ap
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573	29	55.8	200	2	US-09-040-181-4	Sequence 4, Appl1	646	29	55.8	360	2	US-09-501-115-32	Sequence 32, Appl
574	29	55.8	200	2	US-09-134-000C-5031	Sequence 5031, Ap	647	29	55.8	360	2	US-10-357-886-30	Sequence 30, Appl
575	29	55.8	209	2	US-09-303-518D-474	Sequence 474, App	648	29	55.8	368	2	US-09-000-094-20	Sequence 20, Appl
576	29	55.8	211	1	US-07-842-349-2	Sequence 2, Appl1	649	29	55.8	368	2	US-10-011-749-20	Sequence 22, Appl
577	29	55.8	211	2	US-08-244-686-2	Sequence 8, Appl1	650	29	55.8	375	2	US-09-000-094-22	Sequence 22, Appl
578	29	55.8	211	2	US-07-955-726A-8	Sequence 27, Appl	651	29	55.8	375	2	US-10-011-749-22	Sequence 22, Appl
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583	29	55.8	220	2	US-09-248-796A-18144	Sequence 18144, A	656	29	55.8	407	2	US-10-067-977-4	Sequence 4, Appl1
584	29	55.8	221	2	US-09-107-433-3851	Sequence 3851, Ap	657	29	55.8	413	2	US-09-583-110-5067	Sequence 5067, Ap
585	29	55.8	231	1	US-08-902-655A-6	Sequence 6, Appl1	658	29	55.8	413	2	US-09-489-039A-8155	Sequence 8155, Ap
586	29	55.8	232	1	US-08-446-345-38	Sequence 38, Appl	659	29	55.8	417	2	US-09-252-991A-24932	Sequence 24932, A
587	29	55.8	234	2	US-09-538-092-291	Sequence 291, App	660	29	55.8	417	2	US-09-107-443-2865	Sequence 2865, Ap
588	29	55.8	242	2	US-09-583-110-4732	Sequence 4732, Ap	661	29	55.8	420	2	US-09-328-352-7296	Sequence 7296, Ap
589	29	55.8	246	2	US-09-248-796A-18240	Sequence 18240, A	662	29	55.8	420	2	US-09-949-016-11701	Sequence 11701, A
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591	29	55.8	266	2	US-09-198-452A-927	Sequence 927, App	664	29	55.8	428	2	US-09-198-452A-814	Sequence 814, App
592	29	55.8	268	1	US-09-248-796A-18252	Sequence 18252, A	665	29	55.8	430	2	US-08-712-709-9	Sequence 9, Appl1
593	29	55.8	274	2	US-07-857-224B-79	Sequence 79, Appl	666	29	55.8	430	2	US-09-541-228-9	Sequence 5, Appl1
594	29	55.8	274	2	US-10-104-047-3079	Sequence 3079, Ap	667	29	55.8	431	1	US-08-712-709-5	Sequence 5, Appl1
595	29	55.8	276	2	US-09-438-185A-8653	Sequence 863, App	668	29	55.8	431	2	US-09-111-444-5	Sequence 5, Appl1
596	29	55.8	288	1	US-08-375-709-9	Sequence 9, Appl1	669	29	55.8	431	2	US-09-541-228-5	Sequence 2, Appl1
597	29	55.8	288	1	US-08-752-929-9	Sequence 9, Appl1	670	29	55.8	431	2	US-10-000-039-2	Sequence 2, Appl1
598	29	55.8	288	1	US-09-090-793-6	Sequence 6, Appl1	671	29	55.8	432	2	US-09-438-185A-766	Sequence 766, App
599	29	55.8	288	1	US-09-231-899-6	Sequence 6, Appl1	672	29	55.8	432	2	US-09-902-540-13695	Sequence 13695, A
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603	29	55.8	296	2	US-09-599-661-6	Sequence 6, Appl1	676	29	55.8	445	2	US-09-614-748A-6	Sequence 2, Appl1
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605	29	55.8	300	2	US-09-198-452A-354	Sequence 354, App	678	29	55.8	465	2	US-10-011-749-24	Sequence 24, Appl
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609	29	55.8	304	2	US-09-664-526-27	Sequence 27, Appl	682	29	55.8	480	1		
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686	29	55.8	480	2	US-09-770-621-5	Sequence 5, Appli	759	29	55.8	699	1	US-08-454-439-20	Sequence 20, Appli
687	29	55.8	480	2	US-09-235-832-5	Sequence 5, Appli	760	29	55.8	699	1	PCT-US94-10487-20	Sequence 20, Appli
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689	29	55.8	485	2	US-10-214-269-20	Sequence 20, Appli	762	29	55.8	706	2	US-09-270-767-15434	Sequence 45434, A
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696	29	55.8	492	2	US-08-590-563-4	Sequence 4, Appli	769	29	55.8	848	2	US-09-489-039A-13773	Sequence 13773, A
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709	29	55.8	505	2	US-10-104-047-2553	Sequence 2553, Ap	782	29	55.8	934	2	US-09-949-016-7286	Sequence 7286, Ap
710	29	55.8	510	2	US-09-107-433-3148	Sequence 3148, Ap	783	29	55.8	942	2	US-10-101-464A-911	Sequence 911, App
711	29	55.8	516	2	US-09-252-991A-19788	Sequence 19788, A	784	29	55.8	966	2	US-09-107-532A-5970	Sequence 5970, Ap
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727	29	55.8	566	2	US-09-565-501A-8	Sequence 8, Appli	800	29	55.8	1127	2	US-09-949-016-8767	Sequence 8767, Ap
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737	29	55.8	572	2	US-10-017-754-1815	Sequence 1815, Ap	810	29	55.8	1347	2	US-09-949-016-9603	Sequence 9603, Ap
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739	29	55.8	576	1	US-08-221-817-22	Sequence 22, Appli	812	29	55.8	1454	2	US-09-673-896-2	Sequence 2, Appli
740	29	55.8	576	1	US-08-454-439-13	Sequence 13, Appli	813	29	55.8	1455	1	US-08-026-138E-8	Sequence 8, Appli
741	29	55.8	576	1	US-08-454-439-22	Sequence 22, Appli	814	29	55.8	1457	2	US-09-673-896-4	Sequence 4, Appli
742	29	55.8	576	4	US-08-464-954A-6	Sequence 6, Appli	815	29	55.8	1457	2	US-09-303-518D-650	Sequence 650, App
743	29	55.8	576	4	PCT-US94-10487-13	Sequence 13, Appli	816	29	55.8	1468	2	US-09-303-518D-654	Sequence 654, App
744	29	55.8	576	4	PCT-US94-10487-22	Sequence 22, Appli	817	29	55.8	1480	2	US-09-922-011-10	Sequence 10, Appli
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746	29	55.8	590	2	US-09-134-001C-4515	Sequence 4515, Ap	819	29	55.8	1484	1	US-08-231-193A-56	Sequence 56, Appli
747	29	55.8	597	2	US-09-252-991A-31010	Sequence 31010, A	820	29	55.8	1484	1	US-08-466-273A-56	Sequence 56, Appli
748	29	55.8	600	2	US-09-198-452A-397	Sequence 397, App	821	29	55.8	1484	1	US-08-940-086A-56	Sequence 56, Appli
749	29	55.8	607	2	US-09-438-185A-383	Sequence 383, App	822	29	55.8	1484	2	US-08-940-035A-56	Sequence 56, Appli
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754	29	55.8	632	4	PCT-US94-10487-11	Sequence 11, Appli	827	29	55.8	1484	2	US-09-949-016-5998	Sequence 5998, Ap
755	29	55.8	633	4	US-09-134-001C-3162	Sequence 3162, Ap	828	29	55.8	1484	2	US-10-038-937-56	Sequence 56, Appli
756	29	55.8	655	2	US-09-538-092-594	Sequence 594, App	829	29	55.8	1484	2	US-10-007-747-56	Sequence 56, Appli
757	29	55.8	694	2	US-09-252-991A-50396	Sequence 30396, A	830	29	55.8	1484	2	US-09-945-901-56	Sequence 56, Appli

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832	29	55.8	1587	2	US-09-000-094-46	Sequence 46, Appl	905	28	53.8	111	2	US-09-823-746-12	Sequence 12, Appl
833	29	55.8	1587	2	US-10-011-749-46	Sequence 46, Appl	906	28	53.8	112	1	US-08-053-171-15	Sequence 15, Appl
834	29	55.8	1681	2	US-10-037-417-20	Sequence 20, Appl	907	28	53.8	112	1	US-08-331-398A-48	Sequence 48, Appl
835	29	55.8	1697	2	US-10-037-417-68	Sequence 68, Appl	908	28	53.8	112	1	US-08-331-398A-50	Sequence 50, Appl
836	29	55.8	1723	2	US-10-037-417-18	Sequence 18, Appl	909	28	53.8	112	1	US-08-077-252B-3	Sequence 3, Appl
837	29	55.8	2037	2	US-09-306-998-3	Sequence 3, Appl	910	28	53.8	112	1	US-08-859-649-19	Sequence 19, Appl
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840	29	55.8	5518	2	US-09-953-096-2	Sequence 2, Appl	913	28	53.8	112	1	US-08-859-649-43	Sequence 43, Appl
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844	28.5	54.8	435	2	US-09-533-029-56	Sequence 56, Appl	917	28	53.8	112	1	US-08-591-196-15	Sequence 15, Appl
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847	28	53.8	13	1	US-08-933-402-66	Sequence 66, Appl	920	28	53.8	112	1	US-08-759-804A-48	Sequence 48, Appl
848	28	53.8	13	1	US-09-207-621-66	Sequence 66, Appl	921	28	53.8	112	1	US-08-759-804A-50	Sequence 50, Appl
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852	28	53.8	13	2	US-08-933-843-66	Sequence 66, Appl	925	28	53.8	112	2	US-08-207-661-19	Sequence 19, Appl
853	28	53.8	13	2	US-08-934-223-66	Sequence 66, Appl	926	28	53.8	112	2	US-08-207-661-25	Sequence 25, Appl
854	28	53.8	13	2	US-08-934-222-66	Sequence 66, Appl	927	28	53.8	112	2	US-08-207-661-29	Sequence 29, Appl
855	28	53.8	13	2	US-09-413-492-66	Sequence 66, Appl	928	28	53.8	112	2	US-08-207-661-33	Sequence 33, Appl
856	28	53.8	14	2	US-09-569-348-14	Sequence 14, Appl	929	28	53.8	112	2	US-08-207-661-39	Sequence 39, Appl
857	28	53.8	15	2	US-09-217-268B-29	Sequence 29, Appl	930	28	53.8	112	2	US-08-859-648-19	Sequence 19, Appl
858	28	53.8	16	1	US-08-053-171-27	Sequence 27, Appl	931	28	53.8	112	2	US-08-859-648-25	Sequence 25, Appl
859	28	53.8	16	1	US-07-977-696C-30	Sequence 30, Appl	932	28	53.8	112	2	US-08-859-648-33	Sequence 33, Appl
860	28	53.8	16	1	US-08-129-930B-30	Sequence 30, Appl	933	28	53.8	112	2	US-08-859-648-43	Sequence 43, Appl
861	28	53.8	16	1	US-08-560-558E-29	Sequence 29, Appl	934	28	53.8	112	2	US-09-657-274-3	Sequence 67, Appl
862	28	53.8	16	1	US-08-672-345C-22	Sequence 22, Appl	935	28	53.8	112	2	US-08-840-459-67	Sequence 67, Appl
863	28	53.8	16	1	US-08-672-345C-25	Sequence 25, Appl	936	28	53.8	112	2	US-09-497-625A-67	Sequence 67, Appl
864	28	53.8	16	2	US-09-214-095D-22	Sequence 22, Appl	937	28	53.8	112	2	PCT-US94-06687-3	Sequence 8, Appl
865	28	53.8	16	2	US-09-214-095D-25	Sequence 25, Appl	938	28	53.8	112	4	US-08-497-312-18	Sequence 18, Appl
866	28	53.8	16	2	US-08-134-345A-17	Sequence 17, Appl	939	28	53.8	113	1	US-08-672-345C-98	Sequence 98, Appl
867	28	53.8	16	2	US-08-976-288A-30	Sequence 30, Appl	940	28	53.8	113	1	US-08-672-345C-98	Sequence 98, Appl
868	28	53.8	16	2	US-10-226-795-28	Sequence 28, Appl	941	28	53.8	113	1	US-08-672-345C-98	Sequence 98, Appl
869	28	53.8	16	2	US-09-940-727B-22	Sequence 22, Appl	942	28	53.8	113	2	US-09-214-095D-8	Sequence 8, Appl
870	28	53.8	16	2	US-09-940-727B-25	Sequence 25, Appl	943	28	53.8	113	2	US-09-214-095D-108	Sequence 108, Appl
871	28	53.8	16	2	US-09-947-839B-30	Sequence 30, Appl	944	28	53.8	113	2	US-09-940-727B-8	Sequence 8, Appl
872	28	53.8	19	1	US-08-466-468-15	Sequence 15, Appl	945	28	53.8	113	2	US-08-560-558E-27	Sequence 27, Appl
873	28	53.8	19	1	US-08-466-468-16	Sequence 16, Appl	946	28	53.8	113	2	US-08-560-558E-27	Sequence 27, Appl
874	28	53.8	19	1	US-08-468-408-15	Sequence 15, Appl	947	28	53.8	114	1	US-09-217-268B-27	Sequence 27, Appl
875	28	53.8	19	2	US-08-468-408-16	Sequence 16, Appl	948	28	53.8	114	1	US-09-217-268B-35	Sequence 35, Appl
876	28	53.8	19	2	US-08-937-228-15	Sequence 15, Appl	949	28	53.8	114	1	US-08-497-312-14	Sequence 14, Appl
877	28	53.8	19	2	US-08-937-228-16	Sequence 16, Appl	950	28	53.8	117	2	US-09-248-796A-21545	Sequence 21545, A
878	28	53.8	19	2	US-08-421-583-15	Sequence 15, Appl	951	28	53.8	117	2	US-09-248-796A-31866	Sequence 31866, A
879	28	53.8	19	2	US-08-421-583-16	Sequence 16, Appl	952	28	53.8	120	2	US-09-270-767-47083	Sequence 47083, A
880	28	53.8	19	2	US-09-639-242A-15	Sequence 15, Appl	953	28	53.8	120	2	US-09-438-155A-661	Sequence 661, App
881	28	53.8	19	2	US-09-639-242A-16	Sequence 16, Appl	954	28	53.8	122	2	US-09-732-210-380	Sequence 380, App
882	28	53.8	19	2	US-08-945-092-15	Sequence 15, Appl	955	28	53.8	122	2	US-08-331-398A-67	Sequence 67, Appl
883	28	53.8	19	2	US-08-945-092-16	Sequence 16, Appl	956	28	53.8	125	1	US-08-331-398A-67	Sequence 67, Appl
884	28	53.8	19	2	US-09-924-993-15	Sequence 15, Appl	957	28	53.8	125	1	US-08-331-397B-67	Sequence 67, Appl
885	28	53.8	19	2	US-09-924-993-16	Sequence 16, Appl	958	28	53.8	125	1	US-08-759-804A-66	Sequence 66, Appl
886	28	53.8	25	2	US-08-822-324-19	Sequence 19, Appl	959	28	53.8	131	1	US-08-053-171-5	Sequence 5, Appl
887	28	53.8	46	2	US-08-822-324-9	Sequence 9, Appl	960	28	53.8	131	1	US-08-053-171-9	Sequence 9, Appl
888	28	53.8	46	2	US-08-679-493A-169	Sequence 169, Appl	961	28	53.8	131	1	US-08-129-930B-95	Sequence 95, Appl
889	28	53.8	47	2	US-08-822-324-18	Sequence 18, Appl	962	28	53.8	131	2	US-08-134-346A-50	Sequence 50, Appl
890	28	53.8	59	2	US-09-621-976-7386	Sequence 7386, Ap	963	28	53.8	132	2	US-08-976-288A-95	Sequence 95, Appl
891	28	53.8	63	2	US-09-621-976-4015	Sequence 4015, Ap	964	28	53.8	132	2	US-09-339-159B-20	Sequence 20, Appl
892	28	53.8	68	2	US-09-248-796A-25561	Sequence 25561, A	965	28	53.8	133	2	US-09-732-210-82	Sequence 82, Appl
893	28	53.8	91	2	US-09-489-039A-11837	Sequence 11837, A	966	28	53.8	134	2	US-09-902-540-14905	Sequence 14905, A
894	28	53.8	93	2	US-08-905-223-402	Sequence 402, App	967	28	53.8	142	2	US-09-270-767-44221	Sequence 44221, A
895	28	53.8	100	2	US-09-840-459-26	Sequence 26, Appl	968	28	53.8	149	1	US-08-752-844-2	Sequence 2, Appl
896	28	53.8	100	2	US-09-840-459-26	Sequence 26, Appl	969	28	53.8	149	1	US-08-591-196-2	Sequence 2, Appl
897	28	53.8	100	2	US-09-497-625A-26	Sequence 26, Appl	970	28	53.8	149	2	US-09-293-533-82	Sequence 2, Appl
898	28	53.8	102	2	US-09-497-625A-28	Sequence 28, Appl	971	28	53.8	149	2	US-09-324-191-2	Sequence 2, Appl
899	28	53.8	102	2	US-09-198-452A-697	Sequence 697, App	972	28	53.8	149	2	US-10-226-795-27	Sequence 27, Appl
900	28	53.8	107	2	US-09-964-956-70	Sequence 70, Appl	973	28	53.8	149	2	US-09-270-767-33283	Sequence 33283, A
901	28	53.8	109	2	US-09-370-767-33277	Sequence 33277, A	974	28	53.8	151	2	US-09-270-767-48500	Sequence 48500, A
902	28	53.8	109	2	US-09-370-767-48494	Sequence 48494, A	975	28	53.8	151	2	US-09-270-767-48500	Sequence 48500, A
903	28	53.8	110	2	US-09-543-681A-4668	Sequence 4668, Ap	976	28	53.8	151	2	US-09-902-540-15777	Sequence 15777, A

977 28 53.8 159 2 US-09-107-532A-5166 Sequence 5166, Ap
978 28 53.8 160 2 US-09-554-726A-21 Sequence 21, Appl
979 28 53.8 160 2 US-09-270-767-36568 Sequence 36568, A
980 28 53.8 160 2 US-09-270-767-51785 Sequence 51785, A
981 28 53.8 162 2 US-09-198-452A-1190 Sequence 1190, Ap
982 28 53.8 163 2 US-09-134-000C-4490 Sequence 4490, Ap
983 28 53.8 164 2 US-09-270-767-41196 Sequence 41196, A
984 28 53.8 164 2 US-09-270-767-56412 Sequence 56412, A
985 28 53.8 166 2 US-09-438-185A-381 Sequence 381, App
986 28 53.8 169 2 US-09-902-540-9712 Sequence 9712, Ap
987 28 53.8 173 2 US-09-328-352-4478 Sequence 4478, Ap
988 28 53.8 179 2 US-09-393-627B-14 Sequence 14, Appl
989 28 53.8 179 2 US-09-489-039A-12437 Sequence 12437, A
990 28 53.8 180 2 US-09-543-681A-7669 Sequence 7669, Ap
991 28 53.8 182 2 US-09-009-156-2 Sequence 2, Appl
992 28 53.8 182 2 US-09-372-154-2 Sequence 2, Appl
993 28 53.8 182 2 US-09-621-976-5249 Sequence 5249, Ap
994 28 53.8 182 2 US-09-950-688-2 Sequence 2, Appl
995 28 53.8 186 2 US-09-125-635-2 Sequence 2, Appl
996 28 53.8 188 2 US-08-861-774B-16 Sequence 16, Appl
997 28 53.8 190 2 US-09-902-540-11676 Sequence 11676, A
998 28 53.8 196 4 PCT-US93-04365-8 Sequence 8, Appl
999 28 53.8 197 2 US-09-270-767-48282 Sequence 48282, A
1000 28 53.8 198 2 US-09-771-161A-175 Sequence 175, App

ALIGNMENTS

RESULT 1
US-08-159-339A-133
Sequence 133, Application US/08159339A
Patent No. 6037135
GENERAL INFORMATION:
APPLICANT: Kubo, Ralph T.
APPLICANT: Grey, Howard M.
APPLICANT: Sette, Alessandro
APPLICANT: Celis, Esben
TITLE OF INVENTION: HIV Binding peptides and Their
TITLE OF INVENTION: Uses
NUMBER OF SEQUENCES: 1254
CORRESPONDENCE ADDRESSES:
ADDRESSEE: Townsend and Townsend and Crew LLP
STREET: Two Embarcadero Center, Eighth Floor
CITY: San Francisco
STATE: CA
COUNTRY: USA
ZIP: 94111-3834
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSeq for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/159,339A
FILING DATE: 29-NOV-1993
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/926,666
FILING DATE: 07-AUG-1992
APPLICATION NUMBER: US 08/027,746
FILING DATE: 05-MAR-1993
APPLICATION NUMBER: US 08/103,396
FILING DATE: 06-AUG-1993
ATTORNEY/AGENT INFORMATION:
NAME: Weber, Ellen Lauver
REGISTRATION NUMBER: 32,762
REFERENCE/DOCKET NUMBER: 018623-005030US
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 576-0200
TELEFAX: (415) 576-0300
TELEX:
INFORMATION FOR SEQ ID NO: 133:

SEQUENCE CHARACTERISTICS:
LENGTH: 9 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-08-159-339A-133

Query Match 100.0%; Score 52; DB 2; Length 9;
Best Local Similarity 100.0%; Pred. No. 4.6e+05;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Cy 1 IVYRDGNPY 9
Db 1 IVYRDGNPY 9

RESULT 2

US-09-980-523A-6
Sequence 6, Application US/09980523A
Patent No. 6783763
GENERAL INFORMATION:
APPLICANT: CHOPPIN, JEANNINE
APPLICANT: BOURGAULT VILLADA, ISABELLE
APPLICANT: GUILLET, JEAN-GERARD
APPLICANT: CONNAN, FRANCINE
APPLICANT: FERRIS, ESTELLE
TITLE OF INVENTION: POLYPEPTIC PROTEIN FRAGMENTS OF THE E6 AND E7
TITLE OF INVENTION: PROTEINS OF HPV, THEIR PRODUCTION AND THEIR USE
TITLE OF INVENTION: PARTICULARLY IN VACCINATION
FILE REFERENCE: WO1 A0 INS
CURRENT APPLICATION NUMBER: US/09/980,523A
CURRENT FILING DATE: 2002-04-29
PRIOR APPLICATION NUMBER: PCT/FR00/01513
PRIOR FILING DATE: 2000-05-31
PRIOR APPLICATION NUMBER: FR 99/07012
PRIOR FILING DATE: 1999-06-03
NUMBER OF SEQ ID NOS: 24
SOFTWARE: Patentin Ver. 2.1
SEQ ID NO 6
LENGTH: 22
TYPE: PRT
ORGANISM: Human Papillomavirus
US-09-980-523A-6
Query Match 100.0%; Score 52; DB 2; Length 22;
Best Local Similarity 100.0%; Pred. No. 0.0049;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Cy 1 IVYRDGNPY 9
Db 14 IVYRDGNPY 22
RESULT 3
US-09-601-729-276
Sequence 276, Application US/09601729
Patent No. 6683052
GENERAL INFORMATION:
APPLICANT: THIAM, KADER
APPLICANT: AURIAULT, CLAUDE
APPLICANT: GRAS-MASSE, HELENE
APPLICANT: LOING, ESTELLE
APPLICANT: VERMAWDE, CLAUDE
APPLICANT: GUILLET, JEAN GERARD
TITLE OF INVENTION: LIPOPEPTIDES CONTAINING AN INTERFERON FRAGMENT AND USES
TITLE OF INVENTION: THEREOF IN PHARMACEUTICAL COMPOSITIONS
FILE REFERENCE: USB-97-AU-IN
CURRENT APPLICATION NUMBER: US/09/601,729
CURRENT FILING DATE: 2000-11-20
PRIOR APPLICATION NUMBER: PCT/FR99/00259
PRIOR FILING DATE: 1999-02-05
PRIOR APPLICATION NUMBER: 98 01439

PRIOR FILING DATE: 1998-02-06
NUMBER OF SEQ ID NOS: 281
SOFTWARE: Patentin Ver. 2.1
SEQ ID NO 276
LENGTH: 23
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Synthetic
US-09-601-729-276

Query Match 100.0%; Score 52; DB 2; Length 23;
Best Local Similarity 100.0%; Pred. No. 0.0051;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 IYRDGNPY 9
DB 15 IYRDGNPY 23

RESULT 4
US-09-701-080C-18
Sequence 18, Application US/09701080C
Patent No. 6864054
GENERAL INFORMATION:
APPLICANT: INSTITUTE OF MOLECULAR AND CELL BIOLOGY
TITLE OF INVENTION: POLYPEPTIDES FROM CREB BINDING PROTEIN AND RELATED PROTEIN P300 F
FILE REFERENCE: N73477C GCM
CURRENT FILING DATE: 2001-02-27
PRIOR APPLICATION NUMBER: US/09/701,080C
PRIOR FILING DATE: 1998-05-26
PRIOR APPLICATION NUMBER: GB 9811303.8
PRIOR FILING DATE: 1999-01-05
NUMBER OF SEQ ID NOS: 36
SOFTWARE: Patentin Ver. 2.1
SEQ ID NO 18
LENGTH: 151
TYPE: PRT
ORGANISM: Human papillomavirus
US-09-701-080C-18

Query Match 100.0%; Score 52; DB 2; Length 151;
Best Local Similarity 100.0%; Pred. No. 0.042;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 IYRDGNPY 9
DB 52 IYRDGNPY 60

RESULT 5
US-09-980-523A-2
Sequence 2, Application US/09980523A
Patent No. 6783763
GENERAL INFORMATION:
APPLICANT: CHOPPIN, JEANNINE
APPLICANT: BOURGAULT VILADA, ISABELLE
APPLICANT: GUILLET, JEAN-GERARD
APPLICANT: CONNAN, FRANCINE
APPLICANT: FERRIES, ESTELLE
TITLE OF INVENTION: POLYPEPTIC PROTEIN FRAGMENTS OF THE E6 AND E7
TITLE OF INVENTION: PROTEINS OF HPV, THEIR PRODUCTION AND THEIR USE
FILE REFERENCE: WOBI AO INS
CURRENT APPLICATION NUMBER: US/09/980,523A
PRIOR FILING DATE: 2002-04-29
PRIOR APPLICATION NUMBER: PCT/FR00/01513
PRIOR FILING DATE: 2000-05-31
PRIOR APPLICATION NUMBER: FR 99/07012
PRIOR FILING DATE: 1999-06-03

NUMBER OF SEQ ID NOS: 24
SOFTWARE: Patentin Ver. 2.1
SEQ ID NO 2
LENGTH: 158
TYPE: PRT
ORGANISM: Human Papillomavirus
US-09-980-523A-2

Query Match 100.0%; Score 52; DB 2; Length 158;
Best Local Similarity 100.0%; Pred. No. 0.044;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 IYRDGNPY 9
DB 59 IYRDGNPY 67

RESULT 6
US-08-316-239B-3
Sequence 3, Application US/08316239B
Patent No. 5679509
GENERAL INFORMATION:
APPLICANT: Wheeler, Cosette M.
TITLE OF INVENTION: Methods and a Diagnostic Aid for
TITLE OF INVENTION: Distinguishing a Subset of HPV that is Associated with an
TITLE OF INVENTION: Increased Risk of Developing Cervical Dysplasia and
NUMBER OF SEQUENCES: 4
CORRESPONDENCE ADDRESS:
ADDRESSER: Jagtiani & Associates
STREET: 6126 Rocky Way Court
CITY: Centreville
STATE: VA
COUNTRY: USA
ZIP: 20120-3400
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/316,239B
FILING DATE: 30-SEP-1994
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Jagtiani, Ajay A.
REGISTRATION NUMBER: 35,205
REFERENCE/DOCKET NUMBER: UNNE-0001
TELECOMMUNICATION INFORMATION:
TELEPHONE: (703) 817-9453
TELEFAX: (703) 803-9387
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 162 amino acids
TYPE: amino acid
STRANDEDNESS: not relevant
TOPOLOGY: not relevant
MOLECULE TYPE: protein
HYPOTHETICAL: NO
US-08-316-239B-3

Query Match 100.0%; Score 52; DB 1; Length 162;
Best Local Similarity 100.0%; Pred. No. 0.045;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 IYRDGNPY 9
DB 59 IYRDGNPY 67

RESULT 7
US-08-316-239B-4

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; Sequence 4, Application US/08316239B
; Patent No. 5679509
; GENERAL INFORMATION:
; APPLICANT: Wheeler, Cosette M.
; APPLICANT: Parmenter, Cheryl A.
; TITLE OF INVENTION: Methods and a Diagnostic Aid for
; TITLE OF INVENTION: Distinguishing a Subset of HPV that is Associated with an
; TITLE OF INVENTION: Increased Risk of Developing Cervical Dysplasia and
; TITLE OF INVENTION: Cervical Cancer
; NUMBER OF SEQUENCES: 4
; CORRESPONDENCE ADDRESSES:
; ADDRESS: Jagtiani & Associates
; STREET: 6126 Rocky Way Court
; CITY: Centreville
; STATE: VA
; COUNTRY: USA
; ZIP: 20120-3400
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/316.239B
; FILING DATE: 30-SEP-1994
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Jagtiani, Ajay A.
; REGISTRATION NUMBER: 35,205
; REFERENCE/DOCKET NUMBER: UNME-0001
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (703) 817-9453
; TELEFAX: (703) 803-9387
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 162 amino acids
; TYPE: amino acid
; STRANDEDNESS: not relevant
; TOPOLOGY: not relevant
; MOLECULE TYPE: protein
; HYPOTHEICAL: NO
; US-08-316-239B-4

Query Match 100.0%; Score 52; DB 1; Length 162;
Best Local Similarity 100.0%; Pred. No. 0.045;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 IVYRDGNPY 9
Db 59 IVYRDGNPY 67

RESULT 8
US-08-860-165-14
; Sequence 14, Application US/08860165A
; Patent No. 6004557
; GENERAL INFORMATION:
; APPLICANT: EDWARDS, Stirling John
; APPLICANT: COX, John Cooper
; APPLICANT: WEBB, Elizabeth Ann
; APPLICANT: FRAZER, Ian
; TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
; FILE REFERENCE: 17227/130
; CURRENT APPLICATION NUMBER: US/08/860.165A
; CURRENT FILING DATE: 1997-09-22
; EARLIER APPLICATION NUMBER: PCT/AU95/00868
; EARLIER FILING DATE: 1995-12-20
; EARLIER APPLICATION NUMBER: AU PNO157
; EARLIER FILING DATE: 1994-12-20
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 14
; LENGTH: 172
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; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Gene Fusion
; US-08-860-165-14

Query Match 100.0%; Score 52; DB 2; Length 172;
Best Local Similarity 100.0%; Pred. No. 0.049;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 IVYRDGNPY 9
Db 128 IVYRDGNPY 136

RESULT 9
US-09-359-382-14
; Sequence 14, Application US/09359382
; Patent No. 6306397
; GENERAL INFORMATION:
; APPLICANT: EDWARDS, Stirling John
; APPLICANT: COX, John Cooper
; APPLICANT: WEBB, Elizabeth Ann
; APPLICANT: FRAZER, Ian
; TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
; FILE REFERENCE: 017227/0148
; CURRENT APPLICATION NUMBER: US/09/359.382
; CURRENT FILING DATE: 1999-07-23
; EARLIER APPLICATION NUMBER: US 08/860.165
; EARLIER FILING DATE: 1997-09-22
; EARLIER APPLICATION NUMBER: PCT/AU95/00868
; EARLIER FILING DATE: 1995-12-20
; EARLIER APPLICATION NUMBER: AU PNO157/94
; EARLIER FILING DATE: 1994-12-20
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 14
; LENGTH: 172
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
; US-09-359-382-14

Query Match 100.0%; Score 52; DB 2; Length 172;
Best Local Similarity 100.0%; Pred. No. 0.049;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 IVYRDGNPY 9
Db 128 IVYRDGNPY 136

RESULT 10
US-09-462-993-1
; Sequence 1, Application US/09462993
; Patent No. 6884786
; GENERAL INFORMATION:
; APPLICANT: KIENEY, Marie-Paule
; APPLICANT: BALLOU, Jean-Marc
; APPLICANT: BIZOUARNE, Nadine
; TITLE OF INVENTION: ANTITUMORAL COMPOSITION BASED ON IMMUNOGENIC
; TITLE OF INVENTION: POLYPEPTIDE WITH MODIFIED CELL LOCATION
; FILE REFERENCE: 017753-122
; CURRENT APPLICATION NUMBER: US/09/462.993
; CURRENT FILING DATE: 2000-04-17
; PRIOR APPLICATION NUMBER: PCT/FR98/01576
; PRIOR FILING DATE: 1998-07-17
; PRIOR APPLICATION NUMBER: FR 97/09152
; PRIOR FILING DATE: 1997-07-18
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: Patentin Ver. 2.2
; SEQ ID NO 1
; LENGTH: 243
; TYPE: PRT
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; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Derived from
; OTHER INFORMATION: human papillomavirus, strain HPV-16, E6 protein
; OTHER INFORMATION: fused F protein signals, clone E6*TMF.
US-09-462-993-1

Query Match          100.0%; Score 52; DB 2; Length 243;
Best Local Similarity 100.0%; Pred. No. 0.071;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 IYRDGNPY 9
Db 87 IYRDGNPY 95

RESULT 11
US-08-860-165-10
; Sequence 10, Application US/08860165A
; Patent No. 6004557
; GENERAL INFORMATION:
; APPLICANT: EDWARDS, Scifling John
; APPLICANT: COX, John Cooper
; APPLICANT: WEBB, Elizabeth Ann
; APPLICANT: FRAZER, Ian
; TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
; FILE REFERENCE: 17227/130
; CURRENT APPLICATION NUMBER: US/08/860,165A
; PRIOR FILING DATE: 1997-09-22
; EARLIER APPLICATION NUMBER: PCT/AU95/00868
; EARLIER FILING DATE: 1995-12-20
; EARLIER APPLICATION NUMBER: AU PN0157
; EARLIER FILING DATE: 1994-12-20
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 10
; LENGTH: 266
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Gene Fusion
US-08-860-165-10

Query Match          100.0%; Score 52; DB 2; Length 266;
Best Local Similarity 100.0%; Pred. No. 0.079;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 IYRDGNPY 9
Db 59 IYRDGNPY 67

RESULT 12
US-09-359-382-10
; Sequence 10, Application US/09359382
; Patent No. 6306397
; GENERAL INFORMATION:
; APPLICANT: EDWARDS, Scifling John
; APPLICANT: COX, John Cooper
; APPLICANT: WEBB, Elizabeth Ann
; APPLICANT: FRAZER, Ian
; TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
; FILE REFERENCE: 017227/0148
; CURRENT APPLICATION NUMBER: US/09/359,382
; PRIOR FILING DATE: 1999-07-23
; EARLIER APPLICATION NUMBER: US 08/860,165
; EARLIER FILING DATE: 1997-09-22
; EARLIER APPLICATION NUMBER: PCT/AU95/00868
; EARLIER FILING DATE: 1995-12-20
; EARLIER APPLICATION NUMBER: AU PN0157/94
; EARLIER FILING DATE: 1994-12-20
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: Patentin Ver. 2.0
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; SEQ ID NO 10
; LENGTH: 266
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-09-359-382-10

Query Match          100.0%; Score 52; DB 2; Length 266;
Best Local Similarity 100.0%; Pred. No. 0.079;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 IYRDGNPY 9
Db 59 IYRDGNPY 67

RESULT 13
US-09-367-309A-1
; Sequence 1, Application US/09367309A
; Patent No. 6428807
; GENERAL INFORMATION:
; APPLICANT: MACFARLAN, ROBERTICK I.
; APPLICANT: MALLIAROS, JIM
; TITLE OF INVENTION: CHELATING IMMUNOSTIMULATING COMPLEXES
; FILE REFERENCE: 017227/0149
; CURRENT APPLICATION NUMBER: US/09/367,309A
; PRIOR FILING DATE: 1999-08-11
; PRIOR APPLICATION NUMBER: PCT/AU98/00080
; PRIOR FILING DATE: 1998-02-13
; PRIOR APPLICATION NUMBER: AU PO 5178
; PRIOR FILING DATE: 1997-02-19
; NUMBER OF SEQ ID NOS: 6
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 1
; LENGTH: 266
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-09-367-309A-1

Query Match          100.0%; Score 52; DB 2; Length 266;
Best Local Similarity 100.0%; Pred. No. 0.079;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 IYRDGNPY 9
Db 59 IYRDGNPY 67

RESULT 14
US-09-485-885-4
; Sequence 4, Application US/09485885
; Patent No. 6342224
; GENERAL INFORMATION:
; APPLICANT: Bruck, Claudine
; APPLICANT: Gabazon Silva, Teresa
; APPLICANT: Delisse, Anne-Marie Eva Bernande
; APPLICANT: Gerard, Catherine Marie Ghislaine
; APPLICANT: Lombardo-Benchetkin, Angela
; TITLE OF INVENTION: Vaccine
; FILE REFERENCE: B45107
; CURRENT APPLICATION NUMBER: US/09/485,885
; PRIOR FILING DATE: 2000-02-18
; PRIOR APPLICATION NUMBER: PCT/EP98/05285
; PRIOR FILING DATE: 1998-08-17
; PRIOR APPLICATION NUMBER: GB 9717953.5
; PRIOR FILING DATE: 1997-08-22
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 4
; LENGTH: 273
; TYPE: PRT
; ORGANISM: Homo sapien
US-09-485-885-4
```

Query Match 100.0%; Score 52; DB 2; Length 273;
Best Local Similarity 100.0%; Pred. No. 0.081;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 IVYRDGNPY 9
Db 165 IVYRDGNPY 173

RESULT 15
US-09-485-885-10
; Sequence 10, Application US/09485885
; Patent No. 6342224
; GENERAL INFORMATION:
; APPLICANT: Bruck, Claudine
; APPLICANT: Cabezon Silva, Teresa
; APPLICANT: Delisse, Anne-Marie Eva Fernandez
; APPLICANT: Gerard, Catherine Marie Ghislaine
; APPLICANT: Lombardo-Benchelkh, Angela
; TITLE OF INVENTION: Vaccine
; FILE REFERENCE: B45107
; CURRENT APPLICATION NUMBER: US/09/485,885
; CURRENT FILING DATE: 2000-02-18
; PRIOR APPLICATION NUMBER: PCT/EP98/05285
; PRIOR FILING DATE: 1998-08-17
; PRIOR APPLICATION NUMBER: GB 9717953.5
; PRIOR FILING DATE: 1997-08-22
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 10
; LENGTH: 292
; TYPE: PRT
; ORGANISM: Homo sapien
US-09-485-885-10

Query Match 100.0%; Score 52; DB 2; Length 292;
Best Local Similarity 100.0%; Pred. No. 0.088;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 IVYRDGNPY 9
Db 184 IVYRDGNPY 192

RESULT 16
US-09-485-885-6
; Sequence 6, Application US/09485885
; Patent No. 6342224
; GENERAL INFORMATION:
; APPLICANT: Bruck, Claudine
; APPLICANT: Cabezon Silva, Teresa
; APPLICANT: Delisse, Anne-Marie Eva Fernandez
; APPLICANT: Gerard, Catherine Marie Ghislaine
; APPLICANT: Lombardo-Benchelkh, Angela
; TITLE OF INVENTION: Vaccine
; FILE REFERENCE: B45107
; CURRENT APPLICATION NUMBER: US/09/485,885
; CURRENT FILING DATE: 2000-02-18
; PRIOR APPLICATION NUMBER: PCT/EP98/05285
; PRIOR FILING DATE: 1998-08-17
; PRIOR APPLICATION NUMBER: GB 9717953.5
; PRIOR FILING DATE: 1997-08-22
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 6
; LENGTH: 371
; TYPE: PRT
; ORGANISM: Homo sapien
US-09-485-885-6

Query Match 100.0%; Score 52; DB 2; Length 371;
Best Local Similarity 100.0%; Pred. No. 0.11;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 IVYRDGNPY 9
Db 165 IVYRDGNPY 173

RESULT 17
US-09-485-885-14
; Sequence 14, Application US/09485885
; Patent No. 6342224
; GENERAL INFORMATION:
; APPLICANT: Bruck, Claudine
; APPLICANT: Cabezon Silva, Teresa
; APPLICANT: Delisse, Anne-Marie Eva Fernandez
; APPLICANT: Gerard, Catherine Marie Ghislaine
; APPLICANT: Lombardo-Benchelkh, Angela
; TITLE OF INVENTION: Vaccine
; FILE REFERENCE: B45107
; CURRENT APPLICATION NUMBER: US/09/485,885
; CURRENT FILING DATE: 2000-02-18
; PRIOR APPLICATION NUMBER: PCT/EP98/05285
; PRIOR FILING DATE: 1998-08-17
; PRIOR APPLICATION NUMBER: GB 9717953.5
; PRIOR FILING DATE: 1997-08-22
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 14
; LENGTH: 390
; TYPE: PRT
; ORGANISM: Homo sapien
US-09-485-885-14

Query Match 100.0%; Score 52; DB 2; Length 390;
Best Local Similarity 100.0%; Pred. No. 0.12; Indels 0; Gaps 0;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 IVYRDGNPY 9
Db 184 IVYRDGNPY 192

RESULT 18
US-08-159-339A-219
; Sequence 219, Application US/08159339A
; Patent No. 6037135
; GENERAL INFORMATION:
; APPLICANT: Kubo, Ralph T.
; APPLICANT: Grey, Howard M.
; APPLICANT: Sette, Alessandro
; APPLICANT: Celis, Esben
; TITLE OF INVENTION: HLA Binding peptides and Their
; NUMBER OF SEQUENCES: 1254
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Townsend and Townsend and Crew LLP
; STREET: Two Embarcadero Center, Eighth Floor
; CITY: San Francisco
; STATE: CA
; COUNTRY: USA
; ZIP: 94111-3634
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/159,339A
; FILING DATE: 29-NOV-1993
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/926,666
; FILING DATE: 07-AUG-1992
; APPLICATION NUMBER: US 08/027,746

FILING DATE: 05-MAR-1993
APPLICATION NUMBER: US 08/103,396
FILING DATE: 06-AUG-1993
ATTORNEY/AGENT INFORMATION:
NAME: Weber, Ellen Lauver
REGISTRATION NUMBER: 32,762
REFERENCE/DOCKET NUMBER: 018623-005030US
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 576-0200
TELEFAX: (415) 576-0300
TELEX:
INFORMATION FOR SEQ ID NO: 219:
SEQUENCE CHARACTERISTICS:
LENGTH: 9 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-08-159-339A-219

Query Match 84.6%; Score 44; DB 2; Length 9;
Best Local Similarity 100.0%; Pred. No. 4.6e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3 YRDGNPY 9
DB 1 YRDGNPY 7

RESULT 19
US-08-934-915-161
Sequence 161, Application US/08934915
Patent No. 5932412
GENERAL INFORMATION:
APPLICANT: DILLNER, JOAKIM
APPLICANT: DILLNER, LENA
TITLE OF INVENTION: SYNTHETIC PEPTIDES OF HUMAN
TITLE OF INVENTION: PAPILLOMAVIRUS 1, 5, 6, 8,
TITLE OF INVENTION: 11, 16, 18, 31, 33 AND 56,
TITLE OF INVENTION: USEFUL IN IMMUNOSSAY FOR
TITLE OF INVENTION: DIAGNOSTIC PURPOSES
NUMBER OF SEQUENCES: 193
CORRESPONDENCE ADDRESS:
ADDRESSEE: MASON & ASSOCIATES, P.A.
STREET: 17757 U.S. HWY. 19 NORTH, SUITE 500
CITY: CLEARWATER
STATE: FLORIDA
COUNTRY: U.S.A.
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: Windows 3.0
SOFTWARE: Microsoft Word 6.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/934,915
FILING DATE: 22-SRP-1997
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/949,836
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: LOUISE A. Foulch
REGISTRATION NUMBER: 37,133
REFERENCE/DOCKET NUMBER: 1946.6
TELECOMMUNICATION INFORMATION:
TELEPHONE: 813-538-3800
TELEFAX: 813-538-3820
TELEX:
INFORMATION FOR SEQ ID NO: 161:
SEQUENCE CHARACTERISTICS:
LENGTH: 20 amino acids
TYPE: amino acid

TOPOLOGY: linear
MOLECULE TYPE: peptide
US-08-934-915-161

Query Match 76.9%; Score 40; DB 1; Length 20;
Best Local Similarity 87.5%; Pred. No. 0.71;
Matches 7; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 IVYRDGNP 8
DB 13 IVYRDGNP 20

RESULT 20
US-09-902-540-12611
Sequence 12611, Application US/09902540
Patent No. 6833447
GENERAL INFORMATION:
APPLICANT: Goldman, Barry S.
APPLICANT: Hinkle, Gregory J.
APPLICANT: Slater, Steven C.
APPLICANT: Wiegand, Roger C.
TITLE OF INVENTION: Myxococcus xanthus Genome Sequences and Uses Thereof
FILE REFERENCE: 38-10(115849)B
CURRENT APPLICATION NUMBER: US/09/902,540
CURRENT FILING DATE: 2001-07-10
PRIOR APPLICATION NUMBER: 60/217,883
PRIOR FILING DATE: 2000-07-10
NUMBER OF SEQ ID NOS: 16825
SEQ ID NO 12611
LENGTH: 197
TYPE: PRT
ORGANISM: Myxococcus xanthus
US-09-902-540-12611

Query Match 76.9%; Score 40; DB 2; Length 197;
Best Local Similarity 75.0%; Pred. No. 9.2;
Matches 6; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 2 VYRDGNPY 9
DB 134 VYRDGNPY 141

RESULT 21
US-09-328-352-4913
Sequence 4913, Application US/09328352
Patent No. 6562958
GENERAL INFORMATION:
APPLICANT: Gary L. Breton et al.
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO ACINETOBACTER
TITLE OF INVENTION: BAUMANNII FOR DIAGNOSTICS AND THERAPEUTICS
FILE REFERENCE: GTC99-03PA
CURRENT APPLICATION NUMBER: US/09/328,352
CURRENT FILING DATE: 1999-06-04
NUMBER OF SEQ ID NOS: 8252
SEQ ID NO 4913
LENGTH: 390
TYPE: PRT
ORGANISM: Acinetobacter baumannii
US-09-328-352-4913

Query Match 73.1%; Score 38; DB 2; Length 390;
Best Local Similarity 75.0%; Pred. No. 46;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 2 VYRDGNPY 9
DB 213 VYRDGNPY 220

RESULT 22
US-09-574-749B-42

; Sequence 42, Application US/095747498
; Patent No. 6548329
; GENERAL INFORMATION:
; APPLICANT: ROSENZWEIG, Michael
; APPLICANT: PYKEIT, Mark J.
; APPLICANT: SCADDEN, David T.
; APPLICANT: POZNANSKY, Mark C.
; TITLE OF INVENTION: LYMPHOID TISSUE-SPECIFIC CELL PRODUCTION
; TITLE OF INVENTION: FROM HEMATOPOIETIC PROGENITOR CELLS IN THREE-DIMENSIONAL
; TITLE OF INVENTION: DEVICES
; FILE REFERENCE: C1005/7012/KA/ERG
; CURRENT APPLICATION NUMBER: US/09/574,749B
; CURRENT FILING DATE: 2002-05-31
; PRIOR APPLICATION NUMBER: US 60/107,972
; PRIOR FILING DATE: 1998-11-12
; PRIOR APPLICATION NUMBER: PCT/US99/26795
; PRIOR FILING DATE: 1999-11-12
; PRIOR APPLICATION NUMBER: US 09/524,749
; PRIOR FILING DATE: 2000-05-18
; NUMBER OF SEQ ID NOS: 58
; SOFTWARE: FASTSEQ for Windows Version 3.0
; SEQ ID NO 42
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Papilloma source
US-09-574-749B-42

Query Match 71.2%; Score 37; DB 2; Length 9;
Best Local Similarity 100.0%; Pred. No. 4.6e+05;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 4 RDGNPY 9
|||||
Db 3 RDGNPY 8

RESULT 23
US-10-612-818-4
; Sequence 4, Application US/10612818
; Patent No. 6933123
; GENERAL INFORMATION:
; APPLICANT: Impact Diagnostics
; TITLE OF INVENTION: Peptides from the E2, E6 and E7 Proteins of Human Papillomavirus
; TITLE OF INVENTION: 18 for Detecting and/or Diagnosing Cervical and Other Human Pap
; FILE REFERENCE: 3352-2-2
; CURRENT APPLICATION NUMBER: US/10/612,818
; CURRENT FILING DATE: 2003-07-01
; PRIOR APPLICATION NUMBER: US 60/394,172
; PRIOR FILING DATE: 2002-07-02
; PRIOR APPLICATION NUMBER: US 09/828,645
; PRIOR FILING DATE: 2001-04-05
; NUMBER OF SEQ ID NOS: 8
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 4
; LENGTH: 22
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Derived from the E6 early coding region of HPV 16
US-10-612-818-4

Query Match 71.2%; Score 37; DB 2; Length 22;
Best Local Similarity 100.0%; Pred. No. 2.8;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 4 RDGNPY 9
|||||
Db 1 RDGNPY 6

RESULT 24
US-08-111-939-12
; Sequence 12, Application US/08111939
; Patent No. 5460951
; GENERAL INFORMATION:
; APPLICANT: Kawai, Shinji
; APPLICANT: Takeshita, Sunao
; APPLICANT: Okazaki, Makoto
; APPLICANT: Amann, Egon
; TITLE OF INVENTION: Bone-Related Carboxypeptidase-like
; TITLE OF INVENTION: Protein and Process for its Production
; NUMBER OF SEQUENCES: 27
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Finnegan, Henderson, Farbow, Garrett &
; ADDRESSEE: Dunner
; STREET: 1300 I Street, N.W.
; CITY: Washington
; STATE: D.C.
; COUNTRY: USA
; ZIP: 20005-3315
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/111,939
; FILING DATE: 26-AUG-1993
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 324033/92
; FILING DATE: 03-DEC-1992
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 230029/92
; FILING DATE: 28-AUG-1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Foreman, David S.
; REGISTRATION NUMBER: 33,694
; REFERENCE/DOCKET NUMBER: 02481.1321-00000
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 202-408-4000
; TELEFAX: 202-408-4000
; INFORMATION FOR SEQ ID NO: 12:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 484 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-08-111-939-12

Query Match 71.2%; Score 37; DB 1; Length 484;
Best Local Similarity 100.0%; Pred. No. 89;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 3 YRDGNP 8
|||||
Db 94 YRDGNP 99

RESULT 25
US-09-641-741-28
; Sequence 28, Application US/09641741
; Patent No. 6420155
; GENERAL INFORMATION:
; APPLICANT: Kerry E. Quinn
; APPLICANT: Curagen Corporation
; TITLE OF INVENTION: Aortic Carboxypeptidase-like Proteins and Nucleic Acids
; TITLE OF INVENTION: encoding Same
; FILE REFERENCE: 15966-581
; CURRENT APPLICATION NUMBER: US/09/641,741
; CURRENT FILING DATE: 2000-08-18
; PRIOR APPLICATION NUMBER: 60/159,613

PRIOR FILING DATE: 1999-10-14
PRIOR APPLICATION NUMBER: 60/175,534
PRIOR FILING DATE: 2000-01-12
PRIOR APPLICATION NUMBER: 60/224,086
PRIOR FILING DATE: 2000-08-09
NUMBER OF SEQ ID NOS: 32
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 28
LENGTH: 719
TYPE: PRT
ORGANISM: Mus musculus
US-09-641-741-28

Query Match 71.2%; Score 37; DB 2; Length 719;
Best Local Similarity 100.0%; Pred. No. 1.4e+02;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3 YRDGNP 8
DB 228 YRDGNP 233

RESULT 26
US-09-641-741-29
Sequence 29, Application US/09641741
Patent No. 6420155
GENERAL INFORMATION:
APPLICANT: Kerry E. Quinn
TITLE OF INVENTION: Aortic Carboxypeptidase-Like Proteins and Nucleic Acids
TITLE OF INVENTION: encoding Same
FILE REFERENCE: 15966-581
CURRENT APPLICATION NUMBER: US/09/641,741
CURRENT FILING DATE: 2000-08-18
PRIOR APPLICATION NUMBER: 60/159,613
PRIOR FILING DATE: 1999-10-14
PRIOR APPLICATION NUMBER: 60/175,534
PRIOR FILING DATE: 2000-01-12
PRIOR APPLICATION NUMBER: 60/224,086
PRIOR FILING DATE: 2000-08-09
NUMBER OF SEQ ID NOS: 32
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 29
LENGTH: 845
TYPE: PRT
ORGANISM: Homo sapiens
US-09-641-741-29

Query Match 71.2%; Score 37; DB 2; Length 845;
Best Local Similarity 100.0%; Pred. No. 1.7e+02;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3 YRDGNP 8
DB 333 YRDGNP 338

RESULT 27
US-08-111-939-2
Sequence 2, Application US/0811939
Patent No. 5460951
GENERAL INFORMATION:
APPLICANT: Kawai, Shunji
APPLICANT: Takeshita, Sunao
APPLICANT: Okazaki, Makoto
TITLE OF INVENTION: Bone-Related Carboxypeptidase-Like
TITLE OF INVENTION: Protein and Process for its Production
NUMBER OF SEQUENCES: 27
CORRESPONDENCE ADDRESS:
ADDRESSEE: Finnegan, Henderson, Farabow, Garrett &
ADDRESSER: Dunner
STREET: 1300 I Street, N.W.

CITY: Washington
STATE: D.C.
COUNTRY: USA
ZIP: 20005-3315
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/111,939
FILING DATE: 26-AUG-1993
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 324033/92
FILING DATE: 03-DEC-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 230029/92
FILING DATE: 28-AUG-1992
ATTORNEY/AGENT INFORMATION:
NAME: Foreman, David S.
REGISTRATION NUMBER: 33,694
REFERENCE/DOCKET NUMBER: 02481.1321-00000
TELECOMMUNICATION INFORMATION:
TELEPHONE: 202-408-4000
TELEFAX: 202-408-4000
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 1128 amino acids
TYPE: amino acid
TOPOLOGY: linear
US-08-111-939-2

Query Match 71.2%; Score 37; DB 1; Length 1128;
Best Local Similarity 100.0%; Pred. No. 2.3e+02;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3 YRDGNP 8
DB 637 YRDGNP 642

RESULT 28
US-09-641-741-30
Sequence 30, Application US/09641741
Patent No. 6420155
GENERAL INFORMATION:
APPLICANT: Kerry E. Quinn
TITLE OF INVENTION: Aortic Carboxypeptidase-Like Proteins and Nucleic Acids
TITLE OF INVENTION: encoding Same
FILE REFERENCE: 15966-581
CURRENT APPLICATION NUMBER: US/09/641,741
CURRENT FILING DATE: 2000-08-18
PRIOR APPLICATION NUMBER: 60/159,613
PRIOR FILING DATE: 1999-10-14
PRIOR APPLICATION NUMBER: 60/175,534
PRIOR FILING DATE: 2000-01-12
PRIOR APPLICATION NUMBER: 60/224,086
PRIOR FILING DATE: 2000-08-09
NUMBER OF SEQ ID NOS: 32
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 30
LENGTH: 1128
TYPE: PRT
ORGANISM: Mus musculus
US-09-641-741-30

Query Match 71.2%; Score 37; DB 2; Length 1128;
Best Local Similarity 100.0%; Pred. No. 2.3e+02;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 3 YRDGNP 8
|||||
Db 637 YRDGNP 642

RESULT 29

US-09-060-482-8
; Sequence 8, Application US/09060482
; Patent No. 6468766
; GENERAL INFORMATION:
; APPLICANT: Lee, Mu-En
; APPLICANT: Layne, Matthew D.
; APPLICANT: Yet, Shaw-Pang
; TITLE OF INVENTION: AORTIC CARDOXYPEPTIDASE-LIKE POLYPEPTIDE
; FILE REFERENCE: 05433/036001
; CURRENT APPLICATION NUMBER: US/09/060,482
; CURRENT FILING DATE: 1998-04-15
; EARLIER APPLICATION NUMBER: US 08/818,009
; EARLIER FILING DATE: 1997-03-14
; EARLIER APPLICATION NUMBER: US 60/013,439
; EARLIER FILING DATE: 1996-03-15
; NUMBER OF SEQ ID NOS: 8
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 8
; LENGTH: 1128
; TYPE: PRT
; ORGANISM: Mus musculus
US-09-060-482-8

Query Match 71.2%; Score 37; DB 2; Length 1128;
Best Local Similarity 100.0%; Pred. No. 2,3e+02;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 3 YRDGNP 8
|||||
Db 637 YRDGNP 642

RESULT 30

US-09-060-482-2
; Sequence 2, Application US/09060482
; Patent No. 6468766
; GENERAL INFORMATION:
; APPLICANT: Lee, Mu-En
; APPLICANT: Layne, Matthew D.
; APPLICANT: Yet, Shaw-Pang
; TITLE OF INVENTION: AORTIC CARDOXYPEPTIDASE-LIKE POLYPEPTIDE
; FILE REFERENCE: 05433/036001
; CURRENT APPLICATION NUMBER: US/09/060,482
; CURRENT FILING DATE: 1998-04-15
; EARLIER APPLICATION NUMBER: US 08/818,009
; EARLIER FILING DATE: 1997-03-14
; EARLIER APPLICATION NUMBER: US 60/013,439
; EARLIER FILING DATE: 1996-03-15
; NUMBER OF SEQ ID NOS: 8
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 2
; LENGTH: 1158
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-060-482-2

Query Match 71.2%; Score 37; DB 2; Length 1158;
Best Local Similarity 100.0%; Pred. No. 2,4e+02;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 3 YRDGNP 8
|||||
Db 646 YRDGNP 651

RESULT 31
US-09-949-016-8593

; Sequence 8593, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; FILE REFERENCE: CLO01307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 8593
; LENGTH: 1172
; TYPE: PRT
; ORGANISM: Human
US-09-949-016-8593

Query Match 71.2%; Score 37; DB 2; Length 1172;
Best Local Similarity 100.0%; Pred. No. 2,4e+02;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 3 YRDGNP 8
|||||
Db 660 YRDGNP 665

RESULT 32
US-09-472-087-113
; Sequence 113, Application US/09472087
; Patent No. 6682736
; GENERAL INFORMATION:
; APPLICANT: HANSON, DOUGLAS C.
; APPLICANT: NEVEU, MARK J.
; APPLICANT: MOBLER, BILLEN E.
; APPLICANT: HANKE, JEFFREY H.
; APPLICANT: GILMAN, STEVEN C.
; APPLICANT: DAVIS, C. GEOFREY
; APPLICANT: CORVALAN, JOSE R.
; TITLE OF INVENTION: HUMAN MONOCLONAL ANTIBODIES TO CTLA-4
; FILE REFERENCE: ABX-BPI
; CURRENT APPLICATION NUMBER: US/09/472,087
; CURRENT FILING DATE: 1999-12-23
; PRIOR APPLICATION NUMBER: 60/113,647
; PRIOR FILING DATE: 1998-12-23
; NUMBER OF SEQ ID NOS: 147
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 113
; LENGTH: 100
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-472-087-113

Query Match 69.2%; Score 36; DB 2; Length 100;
Best Local Similarity 66.7%; Pred. No. 23;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

OY 1 IYVYRDGNPY 9
:|||||
Db 29 IYVYRDGNPY 37

RESULT 33
US-10-194-975-75
; Sequence 75, Application US/10194975
; Patent No. 6881557
; GENERAL INFORMATION:
; APPLICANT: Foote, Jefferson

TITLE OF INVENTION: Super Humanized Antibodies
FILE REFERENCE: 501231.01
CURRENT APPLICATION NUMBER: US/10/194,975
CURRENT FILING DATE: 2002-10-10
PRIOR APPLICATION NUMBER: US 60/305,111
PRIOR FILING DATE: 2001-07-12
NUMBER OF SEQ ID NOS: 122
SOFTWARE: PatentIn version 3.1
SEQ ID NO 75
LENGTH: 100
TYPE: PRT
ORGANISM: Homo sapiens
US-10-194-975-75

Query Match 69.2%; Score 36; DB 2; Length 100;
Best Local Similarity 66.7%; Pred. No. 23;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 IYRDGNPY 9
: || || ||
Db 29 LVYSDGNTY 37

RESULT 34
US-10-194-975-76
Sequence 76, Application US/10194975
Patent No. 6681557
GENERAL INFORMATION:
APPLICANT: Foote, Jefferson
TITLE OF INVENTION: Super Humanized Antibodies
FILE REFERENCE: 501231.01
CURRENT APPLICATION NUMBER: US/10/194,975
CURRENT FILING DATE: 2002-10-10
PRIOR APPLICATION NUMBER: US 60/305,111
PRIOR FILING DATE: 2001-07-12
NUMBER OF SEQ ID NOS: 122
SOFTWARE: PatentIn version 3.1
SEQ ID NO 76
LENGTH: 100
TYPE: PRT
ORGANISM: Homo sapiens
US-10-194-975-76

Query Match 69.2%; Score 36; DB 2; Length 100;
Best Local Similarity 66.7%; Pred. No. 23;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 IYRDGNPY 9
: || || ||
Db 29 LVYSDGNTY 37

RESULT 35
US-07-942-245-28
Sequence 28, Application US/07942245
Patent No. 5639641
GENERAL INFORMATION:
APPLICANT: PEDERSEN, Jan T.
APPLICANT: SEARLE, Stephen M.J.
APPLICANT: REES, Anthony R.
APPLICANT: ROGUSKA, Michael A.
APPLICANT: GUILD, Braydon C.
TITLE OF INVENTION: SURFACE RESIDUE VENERING OF RODENT
TITLE OF INVENTION: ANTIBODIES
NUMBER OF SEQUENCES: 522
CORRESPONDENCE ADDRESS:
ADDRESSER: Sughrue, Mion, Zinn, Macpeak & Seas
STREET: 2100 Pennsylvania Avenue, N.W.
CITY: Washington
STATE: D.C.
COUNTRY: United States
ZIP: 20037-3202
COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
COMPUTER: HP 9000/700 Workstation
OPERATING SYSTEM: UNIX
SOFTWARE: In house
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/07/942,245
FILING DATE: 09-SEP-1992
CLASSIFICATION: 530
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 293-7060
TELEFAX: (202) 293-7860
TELEX: 6491103
INFORMATION FOR SEQ ID NO: 28:
SEQUENCE CHARACTERISTICS:
LENGTH: 112 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-07-942-245-28

Query Match 69.2%; Score 36; DB 1; Length 112;
Best Local Similarity 66.7%; Pred. No. 27;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 IYRDGNPY 9
: || || ||
Db 29 LVYSDGNTY 37

RESULT 36
US-09-840-459-56
Sequence 56, Application US/09840459
Patent No. 6696550
GENERAL INFORMATION:
APPLICANT: Larosa, Gregory J.
APPLICANT: Horvath, Christopher
APPLICANT: Newman, Walter
APPLICANT: Jones, S. Tarran
APPLICANT: O'Keefe, Theresa
TITLE OF INVENTION: HUMANIZED ANTI-CCR2 ANTIBODIES AND
TITLE OF INVENTION: METHODS OF USE THEREFOR
FILE REFERENCE: 1855.1052-012
CURRENT APPLICATION NUMBER: US/09/840,459
CURRENT FILING DATE: 2001-02-02
PRIOR APPLICATION NUMBER: PCT/US01/03537
PRIOR FILING DATE: 2001-02-02
PRIOR APPLICATION NUMBER: 09/497,625
PRIOR FILING DATE: 2000-02-03
PRIOR APPLICATION NUMBER: 09/359,193
PRIOR FILING DATE: 1999-07-22
PRIOR APPLICATION NUMBER: 09/121,781
PRIOR FILING DATE: 1998-07-23
NUMBER OF SEQ ID NOS: 107
SOFTWARE: FaetSeq for Windows Version 3.0
SEQ ID NO 56
LENGTH: 112
TYPE: PRT
ORGANISM: Homo sapiens
US-09-840-459-56

Query Match 69.2%; Score 36; DB 2; Length 112;
Best Local Similarity 66.7%; Pred. No. 27;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 IYRDGNPY 9
: || || ||
Db 29 LVYSDGNTY 37

RESULT 37
US-09-840-459-66
Sequence 66, Application US/09840459

```
Patent No. 6696550
GENERAL INFORMATION:
APPLICANT: Larosa, Gregory J.
APPLICANT: Horvath, Christopher
APPLICANT: Newman, Walter
APPLICANT: Jones, S. Tarran
APPLICANT: O'Brien, Stobhan H.
APPLICANT: O'Keefe, Theresa
TITLE OF INVENTION: HUMANIZED ANTI-CCR2 ANTIBODIES AND
FILE REFERENCE: 1855.1052-012
CURRENT APPLICATION NUMBER: US/09/840,459
PRIOR FILING DATE: 2001-02-02
PRIOR APPLICATION NUMBER: PCT/US01/03537
PRIOR FILING DATE: 2001-02-02
PRIOR APPLICATION NUMBER: 09/497,625
PRIOR FILING DATE: 2000-02-03
PRIOR APPLICATION NUMBER: 09/359,193
PRIOR FILING DATE: 1999-07-22
PRIOR APPLICATION NUMBER: 09/121,781
PRIOR FILING DATE: 1998-07-23
NUMBER OF SEQ ID NOS: 107
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 66
LENGTH: 112
TYPE: PRT
ORGANISM: Homo sapiens
US-09-840-459-66
```

```
Query Match          69.2%; Score 36; DB 2; Length 112;
Best Local Similarity 66.7%; Pred. No. 27;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;
```

```
QY          1 IVYRDGNPY 9
           :||||||
Db          29 LVYSDGNTY 37
```

```
RESULT 38
US-09-840-459-70
Sequence 70, Application US/09840459
Patent No. 6696550
GENERAL INFORMATION:
APPLICANT: Larosa, Gregory J.
APPLICANT: Horvath, Christopher
APPLICANT: Newman, Walter
APPLICANT: Jones, S. Tarran
APPLICANT: O'Brien, Stobhan H.
APPLICANT: O'Keefe, Theresa
TITLE OF INVENTION: HUMANIZED ANTI-CCR2 ANTIBODIES AND
FILE REFERENCE: 1855.1052-012
CURRENT APPLICATION NUMBER: US/09/840,459
PRIOR FILING DATE: 2001-02-02
PRIOR APPLICATION NUMBER: PCT/US01/03537
PRIOR FILING DATE: 2001-02-02
PRIOR APPLICATION NUMBER: 09/497,625
PRIOR FILING DATE: 2000-02-03
PRIOR APPLICATION NUMBER: 09/359,193
PRIOR FILING DATE: 1999-07-22
PRIOR APPLICATION NUMBER: 09/121,781
PRIOR FILING DATE: 1998-07-23
NUMBER OF SEQ ID NOS: 107
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 70
LENGTH: 112
TYPE: PRT
ORGANISM: Homo sapiens
US-09-840-459-70
```

```
Query Match          69.2%; Score 36; DB 2; Length 112;
Best Local Similarity 66.7%; Pred. No. 27;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;
```

```
QY          1 IVYRDGNPY 9
           :||||||
Db          29 LVYSDGNTY 37
```

```
RESULT 39
US-09-497-625A-56
Sequence 56, Application US/09497625A
Patent No. 6727349
GENERAL INFORMATION:
APPLICANT: Larosa, Gregory J.
APPLICANT: Horvath, Christopher
APPLICANT: Newman, Walter
APPLICANT: Jones, S. Tarran
APPLICANT: O'Brien, Stobhan H.
APPLICANT: O'Keefe, Theresa
TITLE OF INVENTION: HUMANIZED ANTI-CCR2 ANTIBODIES AND
FILE REFERENCE: 1855.1052-004
CURRENT APPLICATION NUMBER: US/09/497,625A
PRIOR FILING DATE: 2000-02-03
PRIOR APPLICATION NUMBER: 09/359,193
PRIOR FILING DATE: 1999-07-22
PRIOR APPLICATION NUMBER: 09/121,781
PRIOR FILING DATE: 1998-07-23
NUMBER OF SEQ ID NOS: 106
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 56
LENGTH: 112
TYPE: PRT
ORGANISM: Homo sapiens
US-09-497-625A-56
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```
Query Match          69.2%; Score 36; DB 2; Length 112;
Best Local Similarity 66.7%; Pred. No. 27;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;
```

```
QY          1 IVYRDGNPY 9
           :||||||
Db          29 LVYSDGNTY 37
```

```
RESULT 40
US-09-497-625A-66
Sequence 66, Application US/09497625A
Patent No. 6727349
GENERAL INFORMATION:
APPLICANT: Larosa, Gregory J.
APPLICANT: Horvath, Christopher
APPLICANT: Newman, Walter
APPLICANT: Jones, S. Tarran
APPLICANT: O'Brien, Stobhan H.
APPLICANT: O'Keefe, Theresa
TITLE OF INVENTION: HUMANIZED ANTI-CCR2 ANTIBODIES AND
FILE REFERENCE: 1855.1052-004
CURRENT APPLICATION NUMBER: US/09/497,625A
PRIOR FILING DATE: 2000-02-03
PRIOR APPLICATION NUMBER: 09/359,193
PRIOR FILING DATE: 1999-07-22
PRIOR APPLICATION NUMBER: 09/121,781
PRIOR FILING DATE: 1998-07-23
NUMBER OF SEQ ID NOS: 106
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 66
LENGTH: 112
TYPE: PRT
ORGANISM: Homo sapiens
US-09-497-625A-66
```

```
Query Match          69.2%; Score 36; DB 2; Length 112;
Best Local Similarity 66.7%; Pred. No. 27;
```

Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;
QY 1 IYRDGNPY 9
: || || |
Db 29 LVYSDGNTY 37

RESULT 41

US-09-497-625A-70
; Sequence 70, Application US/09497625A
; Patent No. 6727349
; GENERAL INFORMATION:
; APPLICANT: LAROSA, Gregory J.
; APPLICANT: HORVATH, Christopher
; APPLICANT: NEWMAN, Walter
; APPLICANT: JONES, S. Tarran
; APPLICANT: O'Brien, Stobhan H.
; APPLICANT: O'Keefe, Theresa
; TITLE OF INVENTION: HUMANIZED ANTI-CCR2 ANTIBODIES AND
; FILE REFERENCE: 1855.1052-004
; CURRENT APPLICATION NUMBER: US/09/497,625A
; CURRENT FILING DATE: 2000-02-03
; PRIOR FILING DATE: 1999-07-22
; PRIOR APPLICATION NUMBER: 09/121,781
; PRIOR FILING DATE: 1998-07-23
; NUMBER OF SEQ ID NOS: 106
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 70
; LENGTH: 112
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-497-625A-70

Query Match 69.2%; Score 36; DB 2; Length 112;
Best Local Similarity 66.7%; Pred. No. 27;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;
QY 1 IYRDGNPY 9
: || || |
Db 29 LVYSDGNTY 37

RESULT 42

US-09-254-180C-8
; Sequence 8, Application US/09254180C
; Patent No. 6777540
; GENERAL INFORMATION:
; APPLICANT: OKUMURA, Ko
; APPLICANT: EDA, Yasuyuki
; APPLICANT: MAEDA, Hiroaki
; APPLICANT: USHIO, Yoshitaka
; APPLICANT: HIGUCHI, Hirofumi
; APPLICANT: NAKATA, Motomi
; TITLE OF INVENTION: Humanized Immunoglobulins Specifically Reactive to Fas Ligand or
; FILE REFERENCE: 050006-0055
; CURRENT APPLICATION NUMBER: US/09/254,180C
; CURRENT FILING DATE: 1999-04-15
; PRIOR APPLICATION NUMBER: PCT/JP97/02983
; PRIOR FILING DATE: 1997-08-27
; PRIOR APPLICATION NUMBER: 271546/1996
; PRIOR FILING DATE: 1996-09-20
; PRIOR APPLICATION NUMBER: 231472/1996
; PRIOR FILING DATE: 1996-09-02
; NUMBER OF SEQ ID NOS: 183
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 8
; LENGTH: 112
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-254-180C-8

Query Match 69.2%; Score 36; DB 2; Length 112;
Best Local Similarity 66.7%; Pred. No. 27;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;
QY 1 IYRDGNPY 9
: || || |
Db 29 LVYSDGNTY 37

RESULT 43

US-09-472-087-25
; Sequence 25, Application US/09472087
; Patent No. 6682736
; GENERAL INFORMATION:
; APPLICANT: HANSON, DOUGLAS C.
; APPLICANT: NEVEU, MARK J.
; APPLICANT: MUELLER, BILLEN E.
; APPLICANT: HANKE, JEFFREY H.
; APPLICANT: GILMAN, STEVEN C.
; APPLICANT: DAVIS, C. GEOFFREY
; TITLE OF INVENTION: HUMAN MONOCLONAL ANTIBODIES TO CTLA-4
; FILE REFERENCE: ABX-PF1
; CURRENT APPLICATION NUMBER: US/09/472,087
; CURRENT FILING DATE: 1999-12-23
; PRIOR APPLICATION NUMBER: 60/113,647
; PRIOR FILING DATE: 1998-12-23
; NUMBER OF SEQ ID NOS: 147
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 25
; LENGTH: 139
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-472-087-25

Query Match 69.2%; Score 36; DB 2; Length 139;
Best Local Similarity 66.7%; Pred. No. 34;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;
QY 1 IYRDGNPY 9
: || || |
Db 22 LVYSDGNTY 30

RESULT 44

US-09-472-087-114
; Sequence 114, Application US/09472087
; Patent No. 6682736
; GENERAL INFORMATION:
; APPLICANT: HANSON, DOUGLAS C.
; APPLICANT: NEVEU, MARK J.
; APPLICANT: MUELLER, BILLEN E.
; APPLICANT: HANKE, JEFFREY H.
; APPLICANT: GILMAN, STEVEN C.
; APPLICANT: DAVIS, C. GEOFFREY
; APPLICANT: CORVALAN, JOSE R.
; TITLE OF INVENTION: HUMAN MONOCLONAL ANTIBODIES TO CTLA-4
; FILE REFERENCE: ABX-PF1
; CURRENT APPLICATION NUMBER: US/09/472,087
; CURRENT FILING DATE: 1999-12-23
; PRIOR APPLICATION NUMBER: 60/113,647
; PRIOR FILING DATE: 1998-12-23
; NUMBER OF SEQ ID NOS: 147
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 114
; LENGTH: 139
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-472-087-114

Query Match 69.2%; Score 36; DB 2; Length 139;
Best Local Similarity 66.7%; Pred. No. 34;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Qy 1 IYVRDGNPY 9

Db 22 LVYSDGNTY 30

RESULT 45

US-09-710-279-2428

; Sequence 2428, Application US/09710279

; Patent No. 6703492

; GENERAL INFORMATION:

; APPLICANT: KIMBERLY, WILLIAM JOHN

; TITLE OF INVENTION: STAPHYLOCOCCUS EPIDERMIDIS NUCLEIC ACIDS AND PROTEINS

; FILE REFERENCE: P03480US

; CURRENT APPLICATION NUMBER: US/09/710,279

; CURRENT FILING DATE: 2000-11-09

; PRIOR APPLICATION NUMBER: 60/164,258

; PRIOR FILING DATE: 1999-11-09

; NUMBER OF SEQ ID NOS: 4472

; SOFTWARE: PatentIn Ver. 2.1

; SEQ ID NO 2428

; LENGTH: 253

; TYPE: PRT

; ORGANISM: Artificial Sequence

; FEATURE: OTHER INFORMATION: Description of Artificial Sequence: synthetic

; OTHER INFORMATION: amino acid sequence

US-09-710-279-2428

Query Match Best Local Similarity 69.2%; Score 36; DB 2; Length 253;

Matches 5; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Qy 2 IYVRDGNPY 9

Db 84 IYHDGKPY 91

RESULT 46

US-09-134-001C-3445

; Sequence 3445, Application US/09134001C

; Patent No. 6380370

; GENERAL INFORMATION:

; APPLICANT: Lynn Doucette-Stamm et al

; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO STAPHYLOCOCCUS

; FILE REFERENCE: GTC-007

; CURRENT APPLICATION NUMBER: US/09/134,001C

; CURRENT FILING DATE: 1998-08-13

; PRIOR APPLICATION NUMBER: US 60/064,964

; PRIOR FILING DATE: 1997-11-08

; PRIOR APPLICATION NUMBER: US 60/055,779

; PRIOR FILING DATE: 1997-08-14

; NUMBER OF SEQ ID NOS: 5674

; SEQ ID NO 3445

; LENGTH: 281

; TYPE: PRT

; ORGANISM: Staphylococcus epidermidis

US-09-134-001C-3445

Query Match Best Local Similarity 69.2%; Score 36; DB 2; Length 281;

Matches 5; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Qy 2 IYVRDGNPY 9

Db 112 IYHDGKPY 119

RESULT 47

US-09-949-016-10069

; Sequence 10069, Application US/09949016

; Patent No. 6812339

; GENERAL INFORMATION:

; APPLICANT: VENTER, J. Craig et al.

; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED

; FILE REFERENCE: C0001307

; CURRENT APPLICATION NUMBER: US/09/949,016

; CURRENT FILING DATE: 2000-04-14

; PRIOR APPLICATION NUMBER: 60/241,755

; PRIOR FILING DATE: 2000-10-20

; PRIOR APPLICATION NUMBER: 60/237,768

; PRIOR FILING DATE: 2000-10-03

; PRIOR APPLICATION NUMBER: 60/231,498

; PRIOR FILING DATE: 2000-09-08

; NUMBER OF SEQ ID NOS: 207012

; SOFTWARE: FastSeq for Windows Version 4.0

; SEQ ID NO 10069

; LENGTH: 389

; TYPE: PRT

; ORGANISM: Human

US-09-949-016-10069

Query Match Best Local Similarity 69.2%; Score 36; DB 2; Length 389;

Matches 5; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

Qy 1 IYVRDGNPY 9

Db 100 LVYRNGDPF 108

RESULT 48

US-09-949-016-6905

; Sequence 6905, Application US/09949016

; Patent No. 6812339

; GENERAL INFORMATION:

; APPLICANT: VENTER, J. Craig et al.

; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED

; FILE REFERENCE: C0001307

; CURRENT APPLICATION NUMBER: US/09/949,016

; CURRENT FILING DATE: 2000-04-14

; PRIOR APPLICATION NUMBER: 60/241,755

; PRIOR FILING DATE: 2000-10-20

; PRIOR APPLICATION NUMBER: 60/237,768

; PRIOR FILING DATE: 2000-10-03

; PRIOR APPLICATION NUMBER: 60/231,498

; PRIOR FILING DATE: 2000-09-08

; NUMBER OF SEQ ID NOS: 207012

; SOFTWARE: FastSeq for Windows Version 4.0

; SEQ ID NO 6905

; LENGTH: 476

; TYPE: PRT

; ORGANISM: Human

US-09-949-016-6905

Query Match Best Local Similarity 69.2%; Score 36; DB 2; Length 476;

Matches 5; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

Qy 1 IYVRDGNPY 9

Db 20 LVYRNGDPF 28

RESULT 49

US-09-534-407-3

; Sequence 3, Application US/09534407

; Patent No. 6361973

; GENERAL INFORMATION:

; APPLICANT: Randy M. Berka

; APPLICANT: Michael W. Rey

; APPLICANT: Kimberly Brown


```

; TITLE OF INVENTION: Promoters For Expressing Genes In A
; FILE REFERENCE: 5611.200-US
; CURRENT APPLICATION NUMBER: US/09/534,407
; EARLIER FILING DATE: 2000-03-22
; EARLIER APPLICATION NUMBER: 09/274,449
; NUMBER OF SEQ ID NOS: 40
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO: 3
; LENGTH: 581
; TYPE: PRT
; ORGANISM: Fusarium
US-09-534-407-3

```

```

Query Match          69.2%; Score 36; DB 2; Length 581;
Best Local Similarity 75.0%; Pred. No. 1.7e+02;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

```

```

Qy      2 VYRDGNPY 9
        |||||:
Db      337 VYDGNPW 344

```

```

RESULT 50
US-09-999-201B-4
; Sequence 4, Application US/09999201B
; Patent No. 6518044
; GENERAL INFORMATION:
; APPLICANT: Berka, Randy
; APPLICANT: Rey, Michael
; APPLICANT: Brown, Kimberly
; TITLE OF INVENTION: Promoters For Expressing Genes In A
; FILE REFERENCE: 5611.210-US
; CURRENT APPLICATION NUMBER: US/09/999,201B
; CURRENT FILING DATE: 2001-10-30
; PRIOR APPLICATION NUMBER: 09/534,407
; PRIOR FILING DATE: 2000-03-22
; PRIOR APPLICATION NUMBER: 09/274,449
; PRIOR FILING DATE: 1999-03-22
; NUMBER OF SEQ ID NOS: 40
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO: 4
; LENGTH: 581
; TYPE: PRT
; ORGANISM: Fusarium
US-09-999-201B-4

```

```

Query Match          69.2%; Score 36; DB 2; Length 581;
Best Local Similarity 75.0%; Pred. No. 1.7e+02;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

```

```

Qy      2 VYRDGNPY 9
        |||||:
Db      337 VYDGNPW 344

```

```

Search completed: May 5, 2006, 05:36:14
Job time : 23.7 secs

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GenCore version 5.1.7
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OM protein - protein search, using bw model

Run on: May 5, 2006, 08:29:07 ; Search time 56 Seconds
(without alignments)
67.151 Million cell updates/sec

Title: US-08-170-344-44
Perfect score: 52
Sequence: 1 IYVRDGNPY 9

Scoring table: BIOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1867569 seqs, 417829326 residues
Total number of hits satisfying chosen parameters: 1867569

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 1000 summaries

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3: /cgn2_6/ptodata/1/pubpaa/US09_PUBCOMB.pep.*
4: /cgn2_6/ptodata/1/pubpaa/US10A_PUBCOMB.pep.*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	52	100.0	9	US-10-751-845-83	Sequence 83, Appl
2	52	100.0	15	US-10-476-570-30	Sequence 30, Appl
3	52	100.0	21	US-10-476-570-54	Sequence 54, Appl
4	52	100.0	22	US-10-476-570-26	Sequence 26, Appl
5	52	100.0	22	US-10-858-384-6	Sequence 6, Appl
6	52	100.0	23	US-10-476-570-27	Sequence 27, Appl
7	52	100.0	24	US-10-751-845-65	Sequence 65, Appl
8	52	100.0	117	US-10-751-845-126	Sequence 126, Appl
9	52	100.0	151	US-10-177-390-6	Sequence 20, Appl
10	52	100.0	151	US-10-484-063-20	Sequence 27, Appl
11	52	100.0	151	US-10-484-063-27	Sequence 27, Appl
12	52	100.0	158	US-10-858-384-2	Sequence 16, Appl
13	52	100.0	158	US-10-367-057-16	Sequence 13, Appl
14	52	100.0	158	US-11-021-949-13	Sequence 157, Appl
15	52	100.0	171	US-10-472-724-2	Sequence 157, Appl
16	52	100.0	236	US-10-751-845-157	Sequence 158, Appl
17	52	100.0	237	US-10-751-845-158	Sequence 1, Appl
18	52	100.0	243	US-11-072-288-1	Sequence 160, Appl
19	52	100.0	261	US-10-751-845-160	Sequence 1, Appl
20	52	100.0	266	US-09-367-309A-1	Sequence 4, Appl
21	52	100.0	273	US-10-000-903-4	Sequence 10, Appl
22	52	100.0	273	US-10-899-771-4	Sequence 10, Appl
23	52	100.0	292	US-10-000-903-10	Sequence 10, Appl
24	52	100.0	292	US-10-899-771-10	Sequence 6, Appl
25	52	100.0	371	US-10-900-903-6	Sequence 6, Appl
26	52	100.0	371	US-10-899-771-6	Sequence 14, Appl
27	52	100.0	390	US-10-000-903-14	

28	52	100.0	390	US-10-899-771-14	Sequence 14, Appl
29	48	92.3	9	US-09-739-466C-11	Sequence 11, Appl
30	48	92.3	149	US-11-021-949-15	Sequence 15, Appl
31	46	88.5	6	US-11-021-949-17	Sequence 17, Appl
32	46	88.5	151	US-11-021-949-24	Sequence 24, Appl
33	45	86.5	6	US-10-367-095-10	Sequence 10, Appl
34	45	86.5	536	US-10-368-046-10	Sequence 10, Appl
35	45	86.5	536	US-10-367-367-10	Sequence 10, Appl
36	45	86.5	536	US-10-918-337-10	Sequence 10, Appl
37	44	84.6	20	US-10-476-570-11	Sequence 11, Appl
38	43	82.7	149	US-11-021-949-16	Sequence 16, Appl
39	43	82.7	149	US-11-021-949-360	Sequence 360, Appl
40	42	80.8	154	US-11-021-949-21	Sequence 21, Appl
41	42	80.8	149	US-11-021-949-14	Sequence 14, Appl
42	42	80.8	436	US-10-424-599-270568	Sequence 270568, A
43	42	80.8	443	US-10-425-114-45886	Sequence 45886, A
44	42	80.8	443	US-10-425-114-46250	Sequence 46250, A
45	42	80.8	443	US-10-425-114-51704	Sequence 51704, A
46	41	78.8	158	US-11-021-949-361	Sequence 361, Appl
47	40	76.9	151	US-11-021-949-25	Sequence 25, Appl
48	39	75.0	374	US-10-437-963-195496	Sequence 195496, A
49	39	75.0	415	US-10-437-963-195493	Sequence 195493, A
50	39	75.0	453	US-10-437-963-170490	Sequence 170490, A
51	39	75.0	582	US-10-437-963-180853	Sequence 180853, A
52	38	73.1	150	US-11-021-949-27	Sequence 27, Appl
53	38	73.1	158	US-11-021-949-30	Sequence 30, Appl
54	38	73.1	595	US-10-424-599-200624	Sequence 200624, A
55	37	71.2	9	US-10-161-097-42	Sequence 42, Appl
56	37	71.2	22	US-10-612-818-4	Sequence 4, Appl
57	37	71.2	22	US-10-995-902-4	Sequence 270563, A
58	37	71.2	103	US-10-424-599-270563	Sequence 20, Appl
59	37	71.2	112	US-10-877-773-20	Sequence 21, Appl
60	37	71.2	112	US-10-877-774-20	Sequence 20, Appl
61	37	71.2	112	US-10-877-774-21	Sequence 21, Appl
62	37	71.2	112	US-10-877-774-20	Sequence 21, Appl
63	37	71.2	153	US-09-925-301-856	Sequence 856, Appl
64	37	71.2	160	US-11-021-949-32	Sequence 32, Appl
65	37	71.2	485	US-10-128-714-8258	Sequence 8258, A
66	37	71.2	599	US-10-425-114-65316	Sequence 65316, A
67	37	71.2	712	US-10-501-282-1962	Sequence 1962, A
68	37	71.2	719	US-09-996-015-9	Sequence 9, Appl
69	37	71.2	845	US-09-996-015-11	Sequence 11, Appl
70	37	71.2	994	US-10-437-963-124012	Sequence 124012, A
71	37	71.2	1011	US-10-217-411-2	Sequence 2, Appl
72	37	71.2	1058	US-10-264-049-2665	Sequence 2665, A
73	37	71.2	1128	US-09-996-015-10	Sequence 10, Appl
74	37	71.2	1128	US-10-238-876-8	Sequence 8, Appl
75	37	71.2	1158	US-09-957-956-3	Sequence 3, Appl
76	37	71.2	1158	US-10-238-876-2	Sequence 2, Appl
77	37	71.2	1158	US-10-177-299-2	Sequence 2, Appl
78	37	71.2	1158	US-10-642-946-3	Sequence 3, Appl
79	37	71.2	1227	US-10-369-493-6903	Sequence 6903, A
80	37	71.2	1749	US-10-450-763-31198	Sequence 31198, A
81	36	69.2	16	US-10-226-435A-15	Sequence 15, Appl
82	36	69.2	16	US-10-663-244-15	Sequence 15, Appl
83	36	69.2	16	US-10-473-287-37	Sequence 37, Appl
84	36	69.2	91	US-10-473-287-53	Sequence 53, Appl
85	36	69.2	91	US-10-194-975-75	Sequence 75, Appl
86	36	69.2	100	US-10-194-975-76	Sequence 76, Appl
87	36	69.2	100	US-10-153-382-36	Sequence 36, Appl
88	36	69.2	100	US-10-308-817-22	Sequence 22, Appl
89	36	69.2	100	US-10-308-817-23	Sequence 23, Appl
90	36	69.2	100	US-10-453-698-22	Sequence 23, Appl
91	36	69.2	100	US-10-453-698-23	Sequence 23, Appl
92	36	69.2	100	US-10-379-392-87	Sequence 87, Appl
93	36	69.2	100	US-10-379-392-88	Sequence 88, Appl
94	36	69.2	100	US-10-612-497-113	Sequence 113, Appl
95	36	69.2	100	US-10-776-646-113	Sequence 113, Appl
96	36	69.2	100	US-11-085-368-36	Sequence 36, Appl
97	36	69.2	103	US-10-309-764-48	Sequence 48, Appl
98	36	69.2	112	US-09-840-459-56	Sequence 56, Appl
99	36	69.2	112	US-09-840-459-66	Sequence 66, Appl
100	36	69.2	112	US-09-840-459-70	Sequence 70, Appl

101	36	69.2	112	4	US-10-309-764-50	Sequence 50, Appl	174	35	67.3	162	6	US-11-021-949-31	Sequence 31, Appl
102	36	69.2	112	4	US-10-309-764-51	Sequence 51, Appl	175	35	67.3	219	4	US-10-226-435A-11	Sequence 11, Appl
103	36	69.2	112	4	US-10-663-244-5	Sequence 56, Appl	176	35	67.3	219	4	US-10-487-322-11	Sequence 11, Appl
104	36	69.2	112	4	US-10-766-773-56	Sequence 66, Appl	177	35	67.3	219	5	US-10-487-326-11	Sequence 11, Appl
105	36	69.2	112	4	US-10-766-773-56	Sequence 66, Appl	178	35	67.3	219	5	US-10-486-908-11	Sequence 11, Appl
106	36	69.2	112	4	US-10-766-773-70	Sequence 70, Appl	179	35	67.3	219	5	US-10-512-527-11	Sequence 11, Appl
107	36	69.2	112	4	US-10-766-610-56	Sequence 56, Appl	180	35	67.3	269	6	US-11-097-143-30279	Sequence 30279, A
108	36	69.2	112	4	US-10-766-610-66	Sequence 66, Appl	181	35	67.3	272	4	US-10-767-701-47094	Sequence 47094, A
109	36	69.2	112	4	US-10-766-610-70	Sequence 70, Appl	182	35	67.3	315	3	US-09-728-626-4765	Sequence 4765, Ap
110	36	69.2	112	4	US-10-733-563-56	Sequence 56, Appl	183	35	67.3	432	4	US-10-767-701-47093	Sequence 47093, A
111	36	69.2	112	4	US-10-733-563-66	Sequence 66, Appl	184	35	67.3	481	5	US-10-425-115-205511	Sequence 205511, A
112	36	69.2	112	4	US-10-733-563-70	Sequence 70, Appl	185	35	67.3	503	4	US-10-732-923-1067	Sequence 135387, Ap
113	36	69.2	114	4	US-10-309-762-161	Sequence 161, App	186	35	67.3	503	4	US-10-437-963-153538	Sequence 135388, Ap
114	36	69.2	114	5	US-10-727-155-275	Sequence 275, App	187	35	67.3	515	3	US-09-786-138-19	Sequence 138-19
115	36	69.2	132	4	US-10-309-764-113	Sequence 113, App	188	35	67.3	515	3	US-09-909-903-19	Sequence 19, Appl
116	36	69.2	132	4	US-10-309-764-117	Sequence 117, App	189	35	67.3	515	5	US-10-732-923-1203	Sequence 1203, Ap
117	36	69.2	139	4	US-10-153-382-37	Sequence 37, Appl	190	35	67.3	516	5	US-10-732-923-1159	Sequence 1159, Ap
118	36	69.2	139	5	US-10-612-497-25	Sequence 25, Appl	191	35	67.3	516	5	US-10-732-923-1160	Sequence 1160, Ap
119	36	69.2	139	5	US-10-612-497-114	Sequence 114, App	192	35	67.3	535	6	US-11-097-143-26571	Sequence 26571, A
120	36	69.2	139	5	US-10-776-649-25	Sequence 25, Appl	193	35	67.3	548	6	US-11-097-143-4659	Sequence 4659, Ap
121	36	69.2	139	5	US-10-776-649-114	Sequence 114, App	194	35	67.3	849	3	US-09-752-639-152	Sequence 152, App
122	36	69.2	139	6	US-11-085-368-37	Sequence 37, Appl	195	35	67.3	849	3	US-09-964-198-152	Sequence 198, App
123	36	69.2	139	6	US-11-085-368-83	Sequence 83, Appl	196	35	67.3	849	5	US-10-473-127-984	Sequence 984, App
124	36	69.2	179	4	US-10-424-599-225033	Sequence 225033, A	197	35	67.3	849	5	US-10-967-092-152	Sequence 152, App
125	36	69.2	183	4	US-10-425-114-46104	Sequence 46104, A	198	35	67.3	849	6	US-11-011-500-152	Sequence 152, App
126	36	69.2	187	4	US-10-880-748-1964	Sequence 1964, Ap	199	35	67.3	943	4	US-11-012-047-152	Sequence 152, App
127	36	69.2	253	3	US-09-880-748-1964	Sequence 1964, Ap	200	35	67.3	943	4	US-10-282-122A-48512	Sequence 48512, A
128	36	69.2	253	4	US-10-293-418-1964	Sequence 127, App	201	35	67.3	1674	5	US-10-893-315-98	Sequence 98, Appl
129	36	69.2	258	6	US-11-090-847-127	Sequence 6, Appl	202	35	67.3	1674	5	US-10-893-315-103	Sequence 103, App
130	36	69.2	261	4	US-09-927-616A-6	Sequence 46104, A	203	35	67.3	1872	5	US-10-450-763-45622	Sequence 46622, A
131	36	69.2	281	4	US-10-724-972A-5664	Sequence 225032, A	204	35	67.3	2338	5	US-10-473-127-978	Sequence 978, App
132	36	69.2	413	4	US-10-282-122A-47082	Sequence 47082, A	205	35	67.3	2491	4	US-10-000-789-2	Sequence 2, Appl
133	36	69.2	512	4	US-10-425-114-48678	Sequence 48678, A	206	35	67.3	2491	4	US-10-408-765A-65	Sequence 65, Appl
134	36	69.2	517	4	US-10-425-114-58826	Sequence 58826, A	207	35	67.3	2491	5	US-10-473-127-979	Sequence 979, App
135	36	69.2	525	4	US-10-425-114-59573	Sequence 59573, A	208	35	67.3	2491	5	US-10-473-127-980	Sequence 980, App
136	36	69.2	537	4	US-10-425-114-60189	Sequence 60189, A	209	35	67.3	2491	5	US-10-473-127-981	Sequence 981, App
137	36	69.2	540	4	US-10-425-114-63374	Sequence 63374, A	210	35	67.3	2491	5	US-10-473-127-982	Sequence 982, App
138	36	69.2	541	4	US-10-425-114-66661	Sequence 56661, A	211	35	67.3	2491	5	US-10-473-127-983	Sequence 983, App
139	36	69.2	541	4	US-10-425-114-59069	Sequence 59069, A	212	35	67.3	2491	5	US-10-473-127-985	Sequence 985, App
140	36	69.2	541	4	US-10-425-114-62715	Sequence 62715, A	213	35	67.3	2491	5	US-10-473-127-986	Sequence 986, App
141	36	69.2	542	4	US-10-425-114-45418	Sequence 45418, A	214	35	67.3	2491	5	US-10-473-127-987	Sequence 987, App
142	36	69.2	542	4	US-10-425-114-50967	Sequence 50967, A	215	35	67.3	2491	5	US-10-741-600-1223	Sequence 1223, App
143	36	69.2	545	4	US-10-425-114-59041	Sequence 59041, A	216	35	67.3	2491	5	US-10-482-029-66	Sequence 66, Appl
144	36	69.2	545	4	US-10-425-114-53246	Sequence 53246, A	217	35	67.3	2491	5	US-10-893-315-68	Sequence 68, Appl
145	36	69.2	545	4	US-10-425-114-66686	Sequence 66686, A	218	35	67.3	2496	5	US-10-618-281-46	Sequence 46, Appl
146	36	69.2	581	4	US-10-281-673-3	Sequence 3, Appl	219	35	67.3	2530	5	US-10-450-763-51455	Sequence 51455, A
147	36	69.2	608	5	US-10-450-763-51713	Sequence 51713, A	220	34	65.4	94	4	US-10-424-599-210802	Sequence 210802, A
148	36	69.2	1124	6	US-11-097-143-1983	Sequence 1983, Ap	221	34	65.4	149	6	US-10-425-115-352512	Sequence 352512, A
149	36	69.2	1391	4	US-10-080-505-11	Sequence 11, Appl	222	34	65.4	153	6	US-11-021-949-18	Sequence 18, Appl
150	36	69.2	1391	4	US-10-080-505-15	Sequence 15, Appl	223	34	65.4	153	6	US-11-021-949-20	Sequence 20, Appl
151	36	69.2	1391	4	US-10-687-046-11	Sequence 11, Appl	224	34	65.4	153	6	US-11-021-949-22	Sequence 22, Appl
152	36	69.2	1391	4	US-10-687-046-15	Sequence 15, Appl	225	34	65.4	153	6	US-10-639-067-171	Sequence 171, App
153	36	69.2	2037	4	US-10-032-585-1119	Sequence 7119, Ap	226	34	65.4	168	4	US-10-282-122A-71665	Sequence 71665, A
154	35.5	68.3	576	4	US-10-168-017-2	Sequence 2, Appl	227	34	65.4	216	4	US-10-159-257A-154	Sequence 154, App
155	35.5	68.3	576	5	US-10-732-923-24007	Sequence 24007, A	228	34	65.4	216	4	US-10-767-701-55729	Sequence 55729, A
156	35	67.3	16	4	US-10-226-435A-1	Sequence 1, Appl	229	34	65.4	225	4	US-10-002-784A-25	Sequence 25, Appl
157	35	67.3	16	4	US-10-487-322-1	Sequence 1, Appl	230	34	65.4	225	4	US-10-369-067-12819	Sequence 12819, A
158	35	67.3	16	5	US-10-487-326-1	Sequence 1, Appl	231	34	65.4	287	4	US-10-639-067-265	Sequence 265, App
159	35	67.3	16	5	US-10-486-908-1	Sequence 1, Appl	232	34	65.4	294	5	US-10-805-684-13	Sequence 13, Appl
160	35	67.3	16	5	US-10-512-527-1	Sequence 1, Appl	233	34	65.4	339	4	US-10-424-599-186197	Sequence 186197, A
161	35	67.3	71	4	US-10-425-115-337313	Sequence 337313, A	234	34	65.4	336	4	US-10-424-599-254299	Sequence 254299, A
162	35	67.3	112	4	US-10-309-764-49	Sequence 49, Appl	235	34	65.4	371	5	US-10-872-198A-25	Sequence 25, Appl
163	35	67.3	113	4	US-10-226-435A-9	Sequence 9, Appl	236	34	65.4	371	5	US-10-872-198A-25	Sequence 25, Appl
164	35	67.3	113	4	US-10-487-322-9	Sequence 9, Appl	237	34	65.4	371	6	US-11-021-951-25	Sequence 25, Appl
165	35	67.3	113	5	US-10-487-326-9	Sequence 9, Appl	238	34	65.4	384	3	US-09-925-299-1011	Sequence 1011, Ap
166	35	67.3	113	5	US-10-486-908-9	Sequence 9, Appl	239	34	65.4	384	3	US-09-925-299-1011	Sequence 1011, Ap
167	35	67.3	113	5	US-10-512-527-9	Sequence 9, Appl	240	34	65.4	398	4	US-10-002-784A-24	Sequence 24, Appl
168	35	67.3	120	4	US-10-425-115-244632	Sequence 244632, A	241	34	65.4	398	4	US-10-428-817A-164	Sequence 164, App
169	35	67.3	132	4	US-10-309-764-109	Sequence 109, App	242	34	65.4	398	5	US-10-474-792-642	Sequence 642, App
170	35	67.3	138	4	US-10-125-001-19	Sequence 19, Appl	243	34	65.4	438	4	US-10-282-122A-72903	Sequence 72903, A
171	35	67.3	138	6	US-11-142-525-19	Sequence 19, Appl	244	34	65.4	449	4	US-10-437-963-107378	Sequence 107378, A
172	35	67.3	149	4	US-10-074-978A-136	Sequence 136, App	245	34	65.4	468	4	US-10-002-784A-27	Sequence 27, Appl
173	35	67.3	149	4	US-10-016-248-85	Sequence 85, Appl	246	34	65.4	508	4	US-10-080-608A-31	Sequence 31, Appl

247	34	65.4	508	4	US-10-370-685-120	Sequence 120, App	320	33	63.5	161	4	US-10-335-977-8931	Sequence 8931, App
248	34	65.4	518	4	US-10-104-047-3059	Sequence 3059, App	321	33	63.5	179	4	US-10-282-122A-71093	Sequence 71093, A
249	34	65.4	525	6	US-11-097-143-40953	Sequence 40953, A	322	33	63.5	180	4	US-10-724-972A-3839	Sequence 3839, App
250	34	65.4	540	4	US-10-080-608A-30	Sequence 30, Appl	323	33	63.5	184	3	US-09-881-752A-278	Sequence 278, App
251	34	65.4	540	4	US-10-370-685-119	Sequence 119, App	324	33	63.5	184	4	US-10-335-977-8932	Sequence 8932, App
252	34	65.4	545	4	US-10-108-260A-2681	Sequence 2681, App	325	33	63.5	186	4	US-10-437-963-132099	Sequence 132099, App
253	34	65.4	561	3	US-09-815-242-10211	Sequence 10211, A	326	33	63.5	203	3	US-09-925-297-716	Sequence 716, App
254	34	65.4	561	4	US-10-282-122A-56602	Sequence 56602, A	327	33	63.5	203	4	US-10-264-049-2374	Sequence 2374, App
255	34	65.4	561	4	US-10-282-122A-76248	Sequence 76248, A	328	33	63.5	203	5	US-10-473-127-1839	Sequence 1839, App
256	34	65.4	565	4	US-10-282-122A-78254	Sequence 78254, A	329	33	63.5	222	3	US-09-479-614-26	Sequence 26, Appl
257	34	65.4	565	4	US-10-282-122A-68521	Sequence 68521, A	330	33	63.5	222	4	US-10-409-772-26	Sequence 12092, A
258	34	65.4	569	3	US-09-036-614A-3	Sequence 3, Appl	331	33	63.5	223	4	US-10-437-963-132092	Sequence 20, Appl
259	34	65.4	569	4	US-10-146-473-48	Sequence 68, Appl	332	33	63.5	242	3	US-09-479-614-20	Sequence 20, Appl
260	34	65.4	574	4	US-10-282-122A-60053	Sequence 60053, A	333	33	63.5	242	4	US-10-409-772-20	Sequence 4, Appl
261	34	65.4	574	4	US-09-815-242-13927	Sequence 13927, A	334	33	63.5	275	3	US-09-828-523A-4	Sequence 4, Appl
262	34	65.4	619	3	US-09-036-614A-1	Sequence 1, Appl	335	33	63.5	275	3	US-09-966-521A-4	Sequence 4, Appl
263	34	65.4	619	4	US-10-094-749-1964	Sequence 1964, App	336	33	63.5	275	6	US-11-097-143-15153	Sequence 15153, A
264	34	65.4	619	4	US-10-094-749-2525	Sequence 2525, App	337	33	63.5	280	3	US-09-940-727B-119	Sequence 119, App
265	34	65.4	619	5	US-10-805-684-36	Sequence 36, Appl	338	33	63.5	284	3	US-09-828-523A-54	Sequence 54, Appl
266	34	65.4	622	4	US-10-275-555A-1	Sequence 1, Appl	339	33	63.5	284	4	US-09-966-521-72	Sequence 72, Appl
267	34	65.4	622	4	US-10-639-067-263	Sequence 263, App	340	33	63.5	315	4	US-10-369-993-13140	Sequence 13140, A
268	34	65.4	626	4	US-10-425-114-58446	Sequence 58446, A	341	33	63.5	323	4	US-10-437-963-180055	Sequence 22, Appl
269	34	65.4	637	4	US-10-108-260A-2455	Sequence 2455, App	342	33	63.5	323	4	US-10-369-993-13140	Sequence 22, Appl
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271	34	65.4	637	4	US-10-117-641-36	Sequence 36, Appl	344	33	63.5	324	4	US-10-461-194-117	Sequence 117, App
272	34	65.4	655	4	US-10-235-113-36	Sequence 36, Appl	345	33	63.5	327	4	US-10-425-114-50927	Sequence 22, Appl
273	34	65.4	661	5	US-10-762-107-32	Sequence 32, Appl	346	33	63.5	328	4	US-10-425-114-50927	Sequence 22, Appl
274	34	65.4	661	4	US-10-437-963-141498	Sequence 141498, A	347	33	63.5	340	4	US-10-425-114-50927	Sequence 22, Appl
275	34	65.4	667	4	US-10-424-599-178327	Sequence 178327, A	348	33	63.5	340	4	US-10-424-599-217891	Sequence 217891, A
276	34	65.4	668	4	US-10-424-599-178327	Sequence 178326, A	349	33	63.5	340	4	US-10-424-599-217891	Sequence 217891, A
277	34	65.4	668	4	US-10-424-599-178326	Sequence 178326, A	350	33	63.5	340	4	US-10-425-114-50927	Sequence 217891, A
278	34	65.4	669	4	US-10-424-599-178328	Sequence 178328, A	351	33	63.5	353	4	US-09-815-242-5427	Sequence 5427, App
279	34	65.4	677	4	US-10-425-114-57780	Sequence 57780, A	352	33	63.5	353	4	US-10-815-242-12621	Sequence 12621, A
280	34	65.4	686	4	US-10-080-608A-122	Sequence 122, Appl	353	33	63.5	373	3	US-09-815-242-12621	Sequence 12621, A
281	34	65.4	686	4	US-10-370-685-122	Sequence 122, Appl	354	33	63.5	373	4	US-10-282-122A-44409	Sequence 44409, A
282	34	65.4	704	3	US-09-842-758-65	Sequence 65, Appl	355	33	63.5	373	4	US-10-282-122A-71000	Sequence 71000, A
283	34	65.4	704	4	US-10-174-333-69	Sequence 69, Appl	356	33	63.5	373	5	US-10-732-923-11482	Sequence 11482, A
284	34	65.4	705	4	US-10-282-122A-53887	Sequence 53887, A	357	33	63.5	373	5	US-10-732-923-11508	Sequence 11508, A
285	34	65.4	716	3	US-09-738-626-4281	Sequence 4281, App	358	33	63.5	386	4	US-10-282-122A-49902	Sequence 49902, A
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287	34	65.4	1436	4	US-10-282-122A-50603	Sequence 50603, A	360	33	63.5	406	4	US-10-166-349-2	Sequence 2, Appl
288	34	63.5	9	3	US-09-077-439A-8	Sequence 8, Appl	361	33	63.5	406	4	US-10-369-493-18759	Sequence 18759, A
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290	33	63.5	9	4	US-10-076-117-9	Sequence 9, Appl	363	33	63.5	451	4	US-10-282-122A-45054	Sequence 45054, A
291	33	63.5	9	4	US-10-448-647-3	Sequence 3, Appl	364	33	63.5	451	4	US-10-087-192-1149	Sequence 1149, App
292	33	63.5	9	5	US-10-790-586-9	Sequence 9, Appl	365	33	63.5	461	3	US-10-087-192-1152	Sequence 1152, App
293	33	63.5	16	3	US-09-940-727B-19	Sequence 19, Appl	366	33	63.5	461	3	US-09-894-698-7	Sequence 7, Appl
294	33	63.5	16	3	US-09-940-727B-28	Sequence 28, Appl	367	33	63.5	461	6	US-10-180-165-7	Sequence 7, Appl
295	33	63.5	43	4	US-10-424-599-254612	Sequence 254612, A	368	33	63.5	483	3	US-11-121-635-7	Sequence 2, Appl
296	33	63.5	51	4	US-10-424-599-263483	Sequence 263483, A	369	33	63.5	483	5	US-09-894-698-2	Sequence 2, Appl
297	33	63.5	52	4	US-10-425-114-197602	Sequence 197602, A	370	33	63.5	510	5	US-10-180-165-2	Sequence 2, Appl
298	33	63.5	58	4	US-10-424-599-192450	Sequence 192450, A	371	33	63.5	510	5	US-10-473-127-1838	Sequence 1838, App
299	33	63.5	78	4	US-10-424-599-198502	Sequence 198502, A	372	33	63.5	510	5	US-10-473-127-1841	Sequence 1841, App
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301	33	63.5	112	5	US-10-877-773-29	Sequence 29, Appl	374	33	63.5	510	5	US-10-473-127-1844	Sequence 205, Appl
302	33	63.5	112	5	US-10-877-773-31	Sequence 31, Appl	375	33	63.5	510	5	US-10-723-860-205	Sequence 446, App
303	33	63.5	112	5	US-10-877-773-32	Sequence 32, Appl	376	33	63.5	517	4	US-10-289-762-446	Sequence 1840, App
304	33	63.5	112	5	US-10-877-773-33	Sequence 33, Appl	377	33	63.5	517	4	US-10-289-762-446	Sequence 54289, A
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306	33	63.5	112	5	US-10-877-774-28	Sequence 28, Appl	379	33	63.5	537	4	US-10-425-114-54289	Sequence 13829, A
307	33	63.5	112	5	US-10-877-774-29	Sequence 29, Appl	380	33	63.5	540	4	US-10-360-493-970	Sequence 66272, A
308	33	63.5	112	5	US-10-877-774-31	Sequence 31, Appl	381	33	63.5	550	4	US-10-156-761-1829	Sequence 12870, A
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310	33	63.5	112	5	US-10-877-774-33	Sequence 33, Appl	383	33	63.5	557	4	US-10-437-963-155739	Sequence 166914, A
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312	33	63.5	113	3	US-09-940-727B-7	Sequence 7, Appl	385	33	63.5	598	4	US-10-732-923-15000	Sequence 269920, A
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395	33	63.5	626	5	US-09-948-722-2	Sequence 2, Appl1	468	32	61.5	111	4	US-10-724-972A-5631	Sequence 5631, Ap
396	33	63.5	627	5	US-10-732-923-9700	Sequence 9700, Ap	469	32	61.5	111	5	US-10-706-852-4	Sequence 4, Appl1
397	33	63.5	628	4	US-10-437-963-102609	Sequence 102609,	470	32	61.5	112	3	US-09-840-459-61	Sequence 61, Appl
398	33	63.5	649	4	US-10-283-122A-45077	Sequence 45077, A	471	32	61.5	112	3	US-10-269-805-48	Sequence 48, Appl
399	33	63.5	665	4	US-10-425-115-279415	Sequence 279415,	472	32	61.5	112	4	US-10-766-773-61	Sequence 61, Appl
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401	33	63.5	676	4	US-10-425-114-43723	Sequence 43723, A	474	32	61.5	112	4	US-10-766-610-61	Sequence 61, Appl
402	33	63.5	684	4	US-10-425-114-46564	Sequence 46564, A	475	32	61.5	112	4	US-10-766-610-62	Sequence 62, Appl
403	33	63.5	829	4	US-10-369-493-579	Sequence 579, App	476	32	61.5	112	4	US-10-733-563-61	Sequence 61, Appl
404	33	63.5	843	4	US-10-424-599-217894	Sequence 217894,	477	32	61.5	112	4	US-10-733-563-62	Sequence 62, Appl
405	33	63.5	849	4	US-10-369-493-8909	Sequence 8909, Ap	478	32	61.5	113	4	US-10-468-370-675	Sequence 675, App
406	33	63.5	862	4	US-10-369-493-8271	Sequence 8271, Ap	479	32	61.5	113	4	US-10-468-370-685	Sequence 685, App
407	33	63.5	878	4	US-10-369-493-17832	Sequence 17832, A	480	32	61.5	113	4	US-10-468-370-687	Sequence 687, App
408	33	63.5	898	4	US-10-474-776-664	Sequence 664, App	481	32	61.5	113	4	US-10-468-370-689	Sequence 689, App
409	33	63.5	899	5	US-10-472-928-2118	Sequence 2118, Ap	482	32	61.5	113	4	US-10-468-370-689	Sequence 2006, Ap
410	33	63.5	899	5	US-10-617-320-3196	Sequence 3196, Ap	483	32	61.5	113	4	US-10-468-496-2016	Sequence 2016, Ap
411	33	63.5	914	4	US-10-043-418-2	Sequence 2, Appl1	484	32	61.5	113	4	US-10-468-496-2018	Sequence 2018, Ap
412	33	63.5	926	4	US-10-375-039-34	Sequence 34, Appl	485	32	61.5	113	4	US-10-468-496-2020	Sequence 2020, Ap
413	33	63.5	934	4	US-10-369-493-19663	Sequence 19663, A	486	32	61.5	113	4	US-10-737-208A-1	Sequence 1, Appl1
414	33	63.5	936	4	US-10-369-493-20491	Sequence 20491, A	487	32	61.5	113	4	US-10-706-852-8	Sequence 8, Appl1
415	33	63.5	1120	4	US-10-437-963-166318	Sequence 166318,	488	32	61.5	113	5	US-10-706-852-12	Sequence 12, Appl
416	33	63.5	1140	6	US-11-097-143-41646	Sequence 293, App	489	32	61.5	113	5	US-10-725-962-23	Sequence 23, Appl
417	33	63.5	1141	5	US-10-425-115-190351	Sequence 190351, A	490	32	61.5	116	4	US-10-767-701-58560	Sequence 58560, A
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419	33	63.5	1228	4	US-10-425-115-303686	Sequence 303686,	492	32	61.5	119	4	US-10-424-599-144548	Sequence 144548,
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421	33	63.5	1247	4	US-10-029-413A-10	Sequence 10, Appl	494	32	61.5	126	3	US-09-978-360A-434	Sequence 102, App
422	33	63.5	1338	4	US-10-726-216-10	Sequence 10283, A	495	32	61.5	126	4	US-10-425-115-198136	Sequence 198136,
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425	33	63.5	1854	4	US-10-726-216-2	Sequence 219, App	498	32	61.5	131	5	US-10-473-287-54	Sequence 54, Appl
426	33	63.5	1862	4	US-10-408-765A-219	Sequence 12, Appl	499	32	61.5	136	4	US-10-425-115-223294	Sequence 223294,
427	33	63.5	1873	4	US-10-029-413A-12	Sequence 12, Appl	500	32	61.5	141	4	US-10-437-963-120509	Sequence 120509,
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429	33	63.5	1873	4	US-10-029-413A-22	Sequence 22, Appl	502	32	61.5	142	4	US-10-109-048-960	Sequence 960, App
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433	33	63.5	1873	5	US-10-723-860-1433	Sequence 1433, Ap	506	32	61.5	158	4	US-10-719-642-66	Sequence 66, Appl
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435	33	63.5	1873	5	US-10-828-868-2	Sequence 2, Appl1	508	32	61.5	175	4	US-10-425-114-70011	Sequence 70011, A
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438	33	63.5	2224	4	US-10-172-712-01	Sequence 31, Appl	511	32	61.5	206	4	US-10-109-048-505	Sequence 505, App
439	33	63.5	2224	4	US-10-172-712-01	Sequence 542, App	512	32	61.5	206	4	US-10-109-048-703	Sequence 703, App
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441	33	63.5	2224	5	US-10-741-601-561	Sequence 30, Appl	514	32	61.5	208	4	US-10-109-048-296	Sequence 296, App
442	33	63.5	8	4	US-10-719-642-30	Sequence 29, Appl	515	32	61.5	212	4	US-10-109-048-297	Sequence 297, App
443	33	61.5	15	4	US-10-476-570-29	Sequence 16, Appl	516	32	61.5	216	5	US-10-825-692-68	Sequence 68, Appl
444	33	61.5	16	5	US-10-725-962-106	Sequence 106, App	517	32	61.5	217	5	US-10-825-692-58	Sequence 58, Appl
445	33	61.5	17	3	US-09-864-761-40429	Sequence 40429, A	518	32	61.5	219	5	US-10-488-074-86	Sequence 86, Appl
446	33	61.5	40	4	US-10-109-048-897	Sequence 897, App	519	32	61.5	220	4	US-10-737-208A-5	Sequence 737, App
447	33	61.5	59	4	US-10-424-599-187693	Sequence 187693,	520	32	61.5	220	6	US-11-040-071-2	Sequence 5, Appl1
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449	33	61.5	69	5	US-10-450-763-181846	Sequence 287834,	522	32	61.5	235	5	US-10-757-356-10	Sequence 10, Appl
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452	33	61.5	74	4	US-10-437-963-181473	Sequence 123, App	525	32	61.5	258	4	US-10-424-599-145994	Sequence 145994,
453	33	61.5	76	4	US-10-263-828-123	Sequence 189777,	526	32	61.5	270	5	US-10-450-763-59315	Sequence 59315, A
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461	33	61.5	96	5	US-10-872-874-23	Sequence 433, App	534	32	61.5				
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542	32	61.5	307	4	US-10-000-897-55	Sequence 55, Appl	615	32	61.5	814	4	US-10-437-963-16279	Sequence 16279, A
543	32	61.5	307	4	US-10-818-168-55	Sequence 55, Appl	616	32	61.5	829	4	US-10-104-047-3433	Sequence 3433, Ap
544	32	61.5	310	4	US-10-469-061A-38	Sequence 38, Appl	617	32	61.5	847	4	US-10-437-963-162381	Sequence 162381, A
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546	32	61.5	313	4	US-10-425-115-33902	Sequence 33902, A	619	32	61.5	861	5	US-10-827-996-6	Sequence 6, Appl1
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551	32	61.5	367	4	US-10-369-493-14164	Sequence 14164, A	624	32	61.5	924	4	US-10-781-510	Sequence 5810, Ap
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557	32	61.5	409	4	US-10-369-493-2632	Sequence 2632, Ap	630	32	61.5	1039	4	US-10-087-684-75	Sequence 74, Appl
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560	32	61.5	437	4	US-10-369-493-5097	Sequence 5097, Ap	633	32	61.5	1062	4	US-10-087-684-73	Sequence 73, Appl
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576	32	61.5	556	4	US-10-437-963-157813	Sequence 157813, A	649	31	59.6	16	5	US-10-877-773-101	Sequence 101, App
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579	32	61.5	571	6	US-11-041-553-5	Sequence 5, Appl1	652	31	59.6	21	5	US-10-919-365-12	Sequence 24, Appl
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687	31	59.6	111	4	US-10-309-762-167	Sequence 167, App	760	31	59.6	165	5	US-10-877-774-140	Sequence 140, App
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694	31	59.6	111	4	US-10-733-563-11	Sequence 11, Appl	767	31	59.6	173	4	US-10-309-762-175	Sequence 175, App
695	31	59.6	111	4	US-10-733-563-59	Sequence 59, Appl	768	31	59.6	175	5	US-10-781-866-40	Sequence 40, Appl
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713	31	59.6	112	5	US-10-877-774-22	Sequence 22, Appl	786	31	59.6	239	4	US-10-648-136-4	Sequence 4, Appl1
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716	31	59.6	113	4	US-10-226-435A-7	Sequence 7, Appl1	789	31	59.6	241	4	US-10-425-114-53267	Sequence 53267, A
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721	31	59.6	113	5	US-10-487-326-7	Sequence 7, Appl1	794	31	59.6	247	3	US-09-880-748-923	Sequence 923, App
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725	31	59.6	113	5	US-10-877-773-144	Sequence 143, App	798	31	59.6	247	4	US-10-424-599-177256	Sequence 177256, Sequence 23534,
726	31	59.6	113	5	US-10-877-774-143	Sequence 143, App	799	31	59.6	254	4	US-10-425-115-23534	Sequence 23534, Sequence 2, Appl1
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728	31	59.6	113	5	US-10-805-177-8	Sequence 8, Appl1	801	31	59.6	255	6	US-11-086-903-2	Sequence 2, Appl1
729	31	59.6	113	5	US-10-805-177-65	Sequence 65, Appl	802	31	59.6	256	4	US-10-424-599-197309	Sequence 197309, Sequence 7276, App
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749	31	59.6	150	4	US-10-109-048-974	Sequence 974, App	822	31	59.6	311	4	US-10-282-122A-45510	Sequence 45510, A
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833	31	59.6	339	4	US-10-424-599-205062	Sequence 205062, A	906	31	59.6	598	4	US-10-369-493-16387	Sequence 16387, A
834	31	59.6	345	4	US-10-282-122A-48152	Sequence 48152, A	907	31	59.6	604	5	US-10-991-654-3	Sequence 3, Appl1
835	31	59.6	355	4	US-10-282-122A-62609	Sequence 62609, A	908	31	59.6	604	5	US-10-992-187-3	Sequence 3, Appl1
836	31	59.6	370	4	US-10-437-963-13103	Sequence 13103, A	909	31	59.6	606	4	US-10-369-493-13278	Sequence 13278, A
837	31	59.6	376	4	US-10-282-122A-64378	Sequence 64378, A	910	31	59.6	611	5	US-10-491-472-15	Sequence 15, Appl1
838	31	59.6	383	4	US-10-000-903-23	Sequence 23, Appl1	911	31	59.6	612	4	US-10-369-493-17539	Sequence 17539, A
839	31	59.6	383	5	US-10-899-771-23	Sequence 23, Appl1	912	31	59.6	618	4	US-10-369-493-21682	Sequence 21682, A
840	31	59.6	393	4	US-10-424-599-228559	Sequence 228559, A	913	31	59.6	620	4	US-10-213-990-33	Sequence 33, Appl1
841	31	59.6	417	3	US-09-782-980-14	Sequence 14, Appl1	914	31	59.6	621	4	US-10-369-493-30298	Sequence 30298, A
842	31	59.6	417	3	US-09-909-743-5	Sequence 5, Appl1	915	31	59.6	634	5	US-10-213-990-54	Sequence 54, Appl1
843	31	59.6	417	4	US-10-305-348-8	Sequence 8, Appl1	916	31	59.6	634	5	US-10-991-654-2	Sequence 2, Appl1
844	31	59.6	417	4	US-10-301-822-107	Sequence 107, Appl1	917	31	59.6	634	5	US-10-992-187-2	Sequence 2, Appl1
845	31	59.6	417	4	US-10-364-889-2	Sequence 2, Appl1	918	31	59.6	647	4	US-10-369-493-3109	Sequence 3109, Appl1
846	31	59.6	417	4	US-10-058-270A-86	Sequence 86, Appl1	919	31	59.6	651	4	US-10-369-493-31499	Sequence 31499, A
847	31	59.6	417	4	US-10-423-543-75	Sequence 75, Appl1	920	31	59.6	655	5	US-10-450-763-40215	Sequence 40215, A
848	31	59.6	417	4	US-10-806-018-14	Sequence 14, Appl1	921	31	59.6	667	4	US-10-021-660-117	Sequence 117, Appl1
849	31	59.6	417	5	US-10-852-065-6	Sequence 6, Appl1	922	31	59.6	667	5	US-10-211-462-199	Sequence 199, Appl1
850	31	59.6	417	5	US-10-852-575-1	Sequence 1, Appl1	923	31	59.6	667	5	US-10-723-860-717	Sequence 717, Appl1
851	31	59.6	417	5	US-10-741-600-1543	Sequence 1543, Appl1	924	31	59.6	667	5	US-10-852-335A-122	Sequence 122, Appl1
852	31	59.6	417	5	US-10-952-459-34	Sequence 34, Appl1	925	31	59.6	677	5	US-10-494-672-46	Sequence 46, Appl1
853	31	59.6	417	5	US-10-287-436A-397	Sequence 397, Appl1	926	31	59.6	677	5	US-10-494-672-46	Sequence 46, Appl1
854	31	59.6	417	5	US-10-287-436A-1097	Sequence 1097, Appl1	927	31	59.6	681	4	US-10-437-963-104832	Sequence 104832, A
855	31	59.6	419	6	US-11-019-829-144	Sequence 144, Appl1	928	31	59.6	681	4	US-10-425-115-342723	Sequence 342723, A
856	31	59.6	425	4	US-10-425-115-36159	Sequence 366159, A	929	31	59.6	692	4	US-10-425-115-342723	Sequence 342723, A
857	31	59.6	425	4	US-10-402-842-25	Sequence 25, Appl1	930	31	59.6	693	4	US-10-425-114-56073	Sequence 56073, A
858	31	59.6	425	4	US-10-746-795-25	Sequence 25, Appl1	931	31	59.6	693	5	US-10-996-058-66	Sequence 66, Appl1
859	31	59.6	426	4	US-10-425-114-64951	Sequence 64951, A	932	31	59.6	715	4	US-10-128-714-3375	Sequence 3375, Appl1
860	31	59.6	426	4	US-10-425-114-67520	Sequence 67520, A	933	31	59.6	715	4	US-10-128-714-68375	Sequence 8375, Appl1
861	31	59.6	429	5	US-10-739-930-7645	Sequence 7645, Appl1	934	31	59.6	752	4	US-10-156-761-15095	Sequence 15095, A
862	31	59.6	460	5	US-10-425-115-306945	Sequence 306945, A	935	31	59.6	753	3	US-09-815-242-12462	Sequence 12462, A
863	31	59.6	460	5	US-10-781-866-39	Sequence 39, Appl1	936	31	59.6	763	4	US-10-282-122A-4416	Sequence 4416, A
864	31	59.6	465	4	US-10-437-963-119556	Sequence 119556, A	937	31	59.6	766	5	US-10-282-122A-48639	Sequence 48639, A
865	31	59.6	467	4	US-10-369-493-14119	Sequence 14119, A	938	31	59.6	771	3	US-10-645-746-9	Sequence 9, Appl1
866	31	59.6	471	4	US-10-424-599-281511	Sequence 281511, A	939	31	59.6	784	4	US-09-815-242-5609	Sequence 5609, Appl1
867	31	59.6	475	3	US-09-927-091-1	Sequence 1, Appl1	940	31	59.6	805	4	US-10-437-963-111085	Sequence 11085, A
868	31	59.6	479	4	US-10-425-114-46471	Sequence 46471, A	941	31	59.6	805	4	US-10-415-255-2	Sequence 2, Appl1
869	31	59.6	481	4	US-10-369-493-10573	Sequence 10573, A	942	31	59.6	805	4	US-10-744-344-14	Sequence 14, Appl1
870	31	59.6	484	4	US-10-282-122A-45780	Sequence 45780, A	943	31	59.6	818	5	US-10-645-746-13	Sequence 13, Appl1
871	31	59.6	491	4	US-10-767-701-46976	Sequence 46976, A	944	31	59.6	818	5	US-10-645-735-13	Sequence 13, Appl1
872	31	59.6	492	4	US-10-282-122A-53168	Sequence 53168, A	945	31	59.6	832	4	US-10-437-963-130487	Sequence 130487, A
873	31	59.6	496	4	US-10-282-122A-46943	Sequence 46943, A	946	31	59.6	834	4	US-10-437-963-103876	Sequence 103876, A
874	31	59.6	497	6	US-11-097-143-28119	Sequence 28119, A	947	31	59.6	848	4	US-10-307-817-672	Sequence 672, Appl1
875	31	59.6	517	4	US-10-282-122A-55891	Sequence 55891, A	948	31	59.6	853	4	US-10-307-817-671	Sequence 671, Appl1
876	31	59.6	530	4	US-10-008-765A-1792	Sequence 1792, Appl1	949	31	59.6	860	5	US-10-744-544-16	Sequence 16, Appl1
877	31	59.6	536	3	US-09-741-669-465	Sequence 465, Appl1	950	31	59.6	863	4	US-10-745-237-384	Sequence 237, Appl1
878	31	59.6	540	3	US-09-738-626-4450	Sequence 4450, Appl1	951	31	59.6	871	5	US-10-282-122A-76063	Sequence 76063, A
879	31	59.6	540	4	US-10-223-355-2	Sequence 2, Appl1	952	31	59.6	891	5	US-10-450-765-54548	Sequence 54548, A
880	31	59.6	540	4	US-10-781-014-42	Sequence 42, Appl1	953	31	59.6	902	4	US-10-732-922-8096	Sequence 8096, Appl1
881	31	59.6	544	5	US-10-732-923-11300	Sequence 11300, A	954	31	59.6	925	4	US-10-732-922-8096	Sequence 8096, Appl1
882	31	59.6	550	4	US-10-336-049-2	Sequence 2, Appl1	955	31	59.6	925	4	US-10-282-122A-46068	Sequence 46068, A
883	31	59.6	550	4	US-10-91-342-2	Sequence 2, Appl1	956	31	59.6	940	5	US-10-821-273-86	Sequence 86, Appl1
884	31	59.6	550	6	US-11-025-115-2	Sequence 2, Appl1	957	31	59.6	974	4	US-10-755-889-526	Sequence 526, Appl1
885	31	59.6	557	4	US-10-333-680-2	Sequence 2, Appl1	958	31	59.6	1005	4	US-10-369-493-1061	Sequence 1061, Appl1
886	31	59.6	560	4	US-10-282-122A-63373	Sequence 63373, A	959	31	59.6	1010	5	US-10-732-922-3307	Sequence 3307, Appl1
887	31	59.6	561	5	US-10-732-923-8106	Sequence 8106, Appl1	960	31	59.6	1010	5	US-10-450-763-40078	Sequence 40078, A
888	31	59.6	563	4	US-10-437-963-156740	Sequence 156740, A	961	31	59.6	1015	4	US-10-369-493-9741	Sequence 9741, Appl1
889	31	59.6	564	4	US-10-087-192-906	Sequence 906, Appl1	962	31	59.6	1020	5	US-10-645-746-3	Sequence 746-3, Appl1
890	31	59.6	566	4	US-10-087-192-903	Sequence 903, Appl1	963	31	59.6	1020	5	US-10-645-746-3	Sequence 746-3, Appl1
891	31	59.6	572	4	US-10-369-493-9267	Sequence 9267, Appl1	964	31	59.6	1023	4	US-10-282-122A-76367	Sequence 76367, A
892	31	59.6	572	4	US-10-369-493-9495	Sequence 9495, Appl1	965	31	59.6	1121	6	US-11-097-143-16326	Sequence 16326, A
893	31	59.6	577	4	US-10-282-122A-49499	Sequence 49499, A	966	31	59.6	1129	4	US-10-156-761-8946	Sequence 8946, Appl1
894	31	59.6	577	4	US-10-425-114-37789	Sequence 37789, A	967	31	59.6	1139	4	US-10-156-761-10856	Sequence 10856, A
895	31	59.6	578	4	US-10-425-115-231336	Sequence 231336, A	968	31	59.6	1160	6	US-11-097-143-5046	Sequence 5046, Appl1
896	31	59.6	580	3	US-09-801-574-16	Sequence 16, Appl1	969	31	59.6	1214	5	US-10-723-860-1851	Sequence 1851, Appl1
897	31	59.6	580	3	US-10-282-122A-65288	Sequence 65288, A	970	31	59.6	1278	4	US-10-390-567-4	Sequence 4, Appl1
898	31	59.6	585	4	US-10-431-449-2	Sequence 2, Appl1	971	31	59.6	1287	5	US-10-990-309-4	Sequence 4, Appl1
899	31	59.6	585	4	US-10-431-449-4	Sequence 4, Appl1	972	31	59.6	1329	3	US-10-437-963-15124	Sequence 15124, A
900	31	59.6	585	4	US-11-097-143-40947	Sequence 40947, A	973	31	59.6	1329	3	US-09-918-715-191	Sequence 191, Appl1
901	31	59.6	591	6	US-10-282-122A-65886	Sequence 65886, A	974	31	59.6	1329	4	US-10-918-715-295	Sequence 295, Appl1
902	31	59.6	593	4	US-10-369-493-15434	Sequence 15434, A	975	31	59.6	1329	4	US-10-474-794-191	Sequence 191, Appl1
903	31	59.6	593	4	US-10-369-493-15434	Sequence 15434, A	976	31	59.6	1329	4	US-10-474-794-295	Sequence 295, Appl1

977 31 59.6 1329 5 US-10-979-159-191 Sequence 191, App
978 31 59.6 1329 5 US-10-978-159-295 Sequence 285, App
979 31 59.6 1331 3 US-09-918-715-188 Sequence 188, App
980 31 59.6 1331 3 US-09-918-715-212 Sequence 212, App
981 31 59.6 1331 4 US-10-311-623-7 Sequence 7, Appl1
982 31 59.6 1331 4 US-10-474-794-188 Sequence 188, App
983 31 59.6 1331 4 US-10-474-794-212 Sequence 212, App
984 31 59.6 1331 5 US-10-979-159-188 Sequence 188, App
985 31 59.6 1331 5 US-10-979-159-212 Sequence 212, App
986 31 59.6 1367 4 US-10-320-797-3355 Sequence 3355, App
987 31 59.6 1386 4 US-10-476-924-2 Sequence 2, Appl1
988 31 59.6 1394 4 US-09-839-996-2 Sequence 2, Appl1
989 31 59.6 1394 4 US-10-080-505-2 Sequence 2, Appl1
990 31 59.6 1394 4 US-10-645-655-2 Sequence 2, Appl1
991 31 59.6 1394 4 US-10-687-046-2 Sequence 2, Appl1
992 31 59.6 1395 4 US-10-080-505-7 Sequence 7, Appl1
993 31 59.6 1395 4 US-10-687-046-7 Sequence 7, Appl1
994 31 59.6 1434 4 US-10-283-122A-67586 Sequence 67586, A
995 31 59.6 1446 6 US-11-097-143-18579 Sequence 18579, A
996 31 59.6 1561 4 US-10-369-493-1131 Sequence 1131, App
997 31 59.6 1694 4 US-10-203-708-36 Sequence 36, Appl
998 31 59.6 1700 3 US-09-863-776-24 Sequence 24, Appl
999 31 59.6 1709 3 US-09-870-759-51 Sequence 51, Appl
1000 31 59.6 1709 3 US-09-751-708A-51 Sequence 51, Appl

ALIGNMENTS

RESULT 1
US-10-751-845-83
; Sequence 83, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
; APPLICANT: Hedley, Mary Lynne
; APPLICANT: Urban, Robert G.
; APPLICANT: Chicz, Roman M.
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES
; FILE REFERENCE: 08191-013001
; CURRENT APPLICATION NUMBER: US/10/751, 845
; CURRENT FILING DATE: 2004-01-05
; PRIOR APPLICATION NUMBER: US/09/664,225
; PRIOR FILING DATE: 2000-08-18
; PRIOR APPLICATION NUMBER: US 60/169, 846
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: US 60/154, 665
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 163
; SOFTWARE: FASTSEQ for Windows Version 4.0
; SEQ ID NO 83
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Human Papilloma Virus
US-10-751-845-83

Query Match 100.0%; Score 52; DB 5; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.7e+06;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 IYVRDGNPY 9
Db 1 IYVRDGNPY 9

RESULT 2
US-10-476-570-30
; Sequence 30, Application US/10476570
; Publication No. US20040170644A1
; GENERAL INFORMATION:
; APPLICANT: COMMISSARIAT A L'ENERGIE ATOMIQUE
; APPLICANT: INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE
; APPLICANT: MAILLIERE, Bernard
; APPLICANT: BOURGAULT-VILLADA, Isabelle

APPLICANT: POUVELLE-MORATILLE, Sandra
; APPLICANT: GUILLET, Jean-Gerard
; TITLE OF INVENTION: Mixture of peptides derived from E6 and/or E7
; FILE REFERENCE: 45636-5071-US
; CURRENT APPLICATION NUMBER: US/10/476,570
; CURRENT FILING DATE: 2003-11-04
; PRIOR APPLICATION NUMBER: PCT/FR02/01533
; PRIOR FILING DATE: 2002-05-03
; PRIOR APPLICATION NUMBER: FR 01 05980
; PRIOR FILING DATE: 2001-05-04
; NUMBER OF SEQ ID NOS: 63
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 30
; LENGTH: 15
; TYPE: PRT
; ORGANISM: artificial sequence
; FEATURE:
; OTHER INFORMATION: Description of the artificial sequence: peptide E6 55-69
US-10-476-570-30

Query Match 100.0%; Score 52; DB 4; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.014;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 IYVRDGNPY 9
Db 5 IYVRDGNPY 13

RESULT 3
US-10-476-570-54
; Sequence 54, Application US/10476570
; Publication No. US20040170644A1
; GENERAL INFORMATION:
; APPLICANT: COMMISSARIAT A L'ENERGIE ATOMIQUE
; APPLICANT: INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE
; APPLICANT: MAILLIERE, Bernard
; APPLICANT: BOURGAULT-VILLADA, Isabelle
; APPLICANT: POUVELLE-MORATILLE, Sandra
; TITLE OF INVENTION: Mixture of peptides derived from E6 and/or E7
; FILE REFERENCE: 45636-5071-US
; CURRENT APPLICATION NUMBER: US/10/476,570
; CURRENT FILING DATE: 2003-11-04
; PRIOR APPLICATION NUMBER: PCT/FR02/01533
; PRIOR FILING DATE: 2002-05-03
; PRIOR APPLICATION NUMBER: FR 01 05980
; PRIOR FILING DATE: 2001-05-04
; NUMBER OF SEQ ID NOS: 63
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 54
; LENGTH: 21
; TYPE: PRT
; ORGANISM: artificial sequence
; FEATURE:
; OTHER INFORMATION: Description of the artificial sequence: peptide E6 46-67
US-10-476-570-54

Query Match 100.0%; Score 52; DB 4; Length 21;
Best Local Similarity 100.0%; Pred. No. 0.02;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 IYVRDGNPY 9
Db 13 IYVRDGNPY 21

RESULT 4
US-10-476-570-26
; Sequence 26, Application US/10476570
; Publication No. US20040170644A1

GENERAL INFORMATION:
APPLICANT: COMMISSARIAT A L'ENERGIE ATOMIQUE
APPLICANT: INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE
APPLICANT: MAILLIERE, Bernard
APPLICANT: BOURGAULT-VILLADA, Isabelle
APPLICANT: GUILLET, Jean-Gerard
TITLE OF INVENTION: Mixture of peptides derived from B6 and/or E7
FILE REFERENCE: 45636-5071-US
CURRENT APPLICATION NUMBER: US/10/476,570
CURRENT FILING DATE: 2003-11-04
PRIOR APPLICATION NUMBER: PCT/FR02/01533
PRIOR FILING DATE: 2002-05-03
PRIOR APPLICATION NUMBER: FR 01 05980
PRIOR FILING DATE: 2001-05-04
NUMBER OF SEQ ID NOS: 63
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 26
LENGTH: 22
TYPE: PRT
ORGANISM: artificial sequence
FEATURE:
OTHER INFORMATION: Description of the artificial sequence: peptide B6 45-67
US-10-476-570-26

Query Match 100.0%; Score 52; DB 4; Length 22;
Best Local Similarity 100.0%; Pred. No. 0.021;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 IYVRDGNPY 9
|||
Db 14 IYVRDGNPY 22

RESULT 5
US-10-858-384-6
Sequence 6, Application US/10858384
Publication No. US20050033025A1
GENERAL INFORMATION:
APPLICANT: CHOPPIN, JEANINNE
APPLICANT: BOURGAULT-VILLADA, ISABELLE
APPLICANT: GUILLET, JEAN-GERARD
APPLICANT: CONNAN, FRANCINE
APPLICANT: FERRIES, ESTELLE
TITLE OF INVENTION: POLYPEPTIDIC PROTEIN FRAGMENTS OF THE B6 PROTEIN
TITLE OF INVENTION: OR E7 OF HPV, THEIR PRODUCTION AND THEIR USE
FILE REFERENCE: 0508-1037-1
CURRENT APPLICATION NUMBER: US/10/858,384
CURRENT FILING DATE: 2004-06-02
PRIOR APPLICATION NUMBER: FR 9907012
PRIOR FILING DATE: 1999-06-03
NUMBER OF SEQ ID NOS: 24
SOFTWARE: PatentIn Ver. 3.2
SEQ ID NO 6
LENGTH: 22
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of the Artificial Sequence: Peptide fragment
US-10-858-384-6

Query Match 100.0%; Score 52; DB 5; Length 22;
Best Local Similarity 100.0%; Pred. No. 0.021;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 IYVRDGNPY 9
|||
Db 14 IYVRDGNPY 22

RESULT 6
US-10-476-570-27
Sequence 27, Application US/10476570
Publication No. US20040170644A1
GENERAL INFORMATION:
APPLICANT: COMMISSARIAT A L'ENERGIE ATOMIQUE
APPLICANT: INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE
APPLICANT: MAILLIERE, Bernard
APPLICANT: BOURGAULT-VILLADA, Isabelle
APPLICANT: GUILLET, Jean-Gerard
TITLE OF INVENTION: Mixture of peptides derived from B6 and/or E7
FILE REFERENCE: 45636-5071-US
CURRENT APPLICATION NUMBER: US/10/476,570
CURRENT FILING DATE: 2003-11-04
PRIOR APPLICATION NUMBER: PCT/FR02/01533
PRIOR FILING DATE: 2002-05-03
PRIOR APPLICATION NUMBER: FR 01 05980
PRIOR FILING DATE: 2001-05-04
NUMBER OF SEQ ID NOS: 63
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 27
LENGTH: 23
TYPE: PRT
ORGANISM: artificial sequence
FEATURE:
OTHER INFORMATION: Description of the artificial sequence: peptide B6 44-67
US-10-476-570-27

Query Match 100.0%; Score 52; DB 4; Length 23;
Best Local Similarity 100.0%; Pred. No. 0.022;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 IYVRDGNPY 9
|||
Db 15 IYVRDGNPY 23

RESULT 7
US-10-751-845-65
Sequence 65, Application US/10751845
Publication No. US20050100928A1
GENERAL INFORMATION:
APPLICANT: Hedley, Mary Lynne
APPLICANT: Urban, Robert G.
TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES
FILE REFERENCE: 08191-013001
CURRENT APPLICATION NUMBER: US/10/751,845
CURRENT FILING DATE: 2004-01-05
PRIOR APPLICATION NUMBER: US/09/664,225
PRIOR FILING DATE: 2000-08-18
PRIOR APPLICATION NUMBER: US 60/169,846
PRIOR FILING DATE: 1999-12-09
PRIOR APPLICATION NUMBER: US 60/154,665
PRIOR FILING DATE: 1999-09-16
NUMBER OF SEQ ID NOS: 163
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 65
LENGTH: 24
TYPE: PRT
ORGANISM: Human Papilloma virus
US-10-751-845-65

Query Match 100.0%; Score 52; DB 5; Length 24;
Best Local Similarity 100.0%; Pred. No. 0.023;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 IYVRDGNPY 9
|||
Db 16 IYVRDGNPY 24

RESULT 8
US-10-751-845-126
; Sequence 126, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
; APPLICANT: Hedley, Mary Lynne
; APPLICANT: Urban, Robert G.
; APPLICANT: Chicz, Roman M.
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES
; FILE REFERENCE: 08191-013001
; CURRENT APPLICATION NUMBER: US/10/751,845
; CURRENT FILING DATE: 2004-01-05
; PRIOR APPLICATION NUMBER: US/09/664,225
; PRIOR FILING DATE: 2000-08-18
; PRIOR APPLICATION NUMBER: US 60/169,846
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: US 60/154,665
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 163
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 126
; LENGTH: 117
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Artificial fusion sequence
US-10-751-845-126

Query Match 100.0%; Score 52; DB 5; Length 117;
Best Local Similarity 100.0%; Pred. No. 0.13; Mismatches 0; Indels 0; Gaps 0;
Matches 9; Conservative 0;

Oy 1 IYRDGNPY 9
|||
Db 36 IYRDGNPY 44

RESULT 9
US-10-177-390-6
; Sequence 6, Application US/10177390
; Publication No. US20030143743A1
; GENERAL INFORMATION:
; APPLICANT: Schuler, Gerold
; APPLICANT: N.V. Antwerp Innovatiecentrum
; TITLE OF INVENTION: Improved transfection of Eucaryotic Cells with linear
; FILE REFERENCE: 021505wo/JH/ml
; CURRENT APPLICATION NUMBER: US/10/177,390
; CURRENT FILING DATE: 2002-06-20
; NUMBER OF SEQ ID NOS: 34
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 6
; LENGTH: 151
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-10-177-390-6

Query Match 100.0%; Score 52; DB 4; Length 151;
Best Local Similarity 100.0%; Pred. No. 0.17; Mismatches 0; Indels 0; Gaps 0;
Matches 9; Conservative 0;

Oy 1 IYRDGNPY 9
|||
Db 52 IYRDGNPY 60

RESULT 10
US-10-484-063-20
; Sequence 20, Application US/10484063
; Publication No. US20050048467A1
; GENERAL INFORMATION:
; APPLICANT: SASTRY, K. JAGANNADHA

APPLICANT: TORTOLERO-LUNA, GUILLERMO
; APPLICANT: FOLLEN, MICHELE
; TITLE OF INVENTION: METHODS AND COMPOSITIONS RELATING TO HPV-ASSOCIATED
; FILE REFERENCE: UTSC:56005
; CURRENT APPLICATION NUMBER: US/10/484,063
; CURRENT FILING DATE: 2004-01-16
; PRIOR APPLICATION NUMBER: PCT/US02/23198
; PRIOR FILING DATE: 2002-07-19
; PRIOR APPLICATION NUMBER: 60/306,809
; PRIOR FILING DATE: 2001-07-20
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 20
; LENGTH: 151
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-484-063-20

Query Match 100.0%; Score 52; DB 5; Length 151;
Best Local Similarity 100.0%; Pred. No. 0.17; Mismatches 0; Indels 0; Gaps 0;
Matches 9; Conservative 0;

Oy 1 IYRDGNPY 9
|||
Db 52 IYRDGNPY 60

RESULT 11
US-10-484-063-27
; Sequence 27, Application US/10484063
; Publication No. US20050048467A1
; GENERAL INFORMATION:
; APPLICANT: SASTRY, K. JAGANNADHA
; APPLICANT: TORTOLERO-LUNA, GUILLERMO
; APPLICANT: FOLLEN, MICHELE
; TITLE OF INVENTION: METHODS AND COMPOSITIONS RELATING TO HPV-ASSOCIATED
; FILE REFERENCE: UTSC:56005
; CURRENT APPLICATION NUMBER: US/10/484,063
; CURRENT FILING DATE: 2004-01-16
; PRIOR APPLICATION NUMBER: PCT/US02/23198
; PRIOR FILING DATE: 2002-07-19
; PRIOR APPLICATION NUMBER: 60/306,809
; PRIOR FILING DATE: 2001-07-20
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 27
; LENGTH: 151
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-10-484-063-27

Query Match 100.0%; Score 52; DB 5; Length 151;
Best Local Similarity 100.0%; Pred. No. 0.17; Mismatches 0; Indels 0; Gaps 0;
Matches 9; Conservative 0;

Oy 1 IYRDGNPY 9
|||
Db 52 IYRDGNPY 60

RESULT 12
US-10-858-384-2
; Sequence 2, Application US/10858384
; Publication No. US2005003025A1
; GENERAL INFORMATION:
; APPLICANT: CHOPPIN, JEANNINE
; APPLICANT: BOURGAULT VILLADA, ISABELLE
; APPLICANT: GUILLET, JEAN-GERARD
; APPLICANT: CONNAN, FRANCES
; APPLICANT: FERRIS, ESTELLE
; TITLE OF INVENTION: POLYPEPTIC PROTEIN FRAGMENTS OF THE E6 PROTEIN

TITLE OF INVENTION: OR E7 OF HPV, THEIR PRODUCTION AND THEIR USE
TITLE OF INVENTION: PARTICULARLY IN VACCINATION
FILE REFERENCE: 0508-1037-1
CURRENT APPLICATION NUMBER: US/10/858,384
CURRENT FILING DATE: 2004-06-02
PRIOR APPLICATION NUMBER: FR 9907012
PRIOR FILING DATE: 1999-06-03
NUMBER OF SEQ ID NOS: 24
SOFTWARE: PatentIn Ver. 3.2
SEQ ID NO 2
LENGTH: 158
TYPE: PRT
ORGANISM: Human Papillomavirus
US-10-858-384-2

Query Match 100.0%; Score 52; DB 5; Length 158;
Best Local Similarity 100.0%; Pred. No. 0.18; 0; Indels 0; Gaps 0;
Matches 9; Conservative 0; Mismatches 0;

Qy 1 IYVRDGNPY 9
Db 59 IYVRDGNPY 67

RESULT 13
US-10-367-057-16
Sequence 16, Application US/10367057
Publication No. US20050100554A1
GENERAL INFORMATION:
APPLICANT: Cutchill, Scott;
APPLICANT: Jackson, Amanda;
APPLICANT: Lewin, David A.;
APPLICANT: Ooi, Chean Eng
TITLE OF INVENTION: Complexes and Methods of Using Same
FILE REFERENCE: 21402-559
CURRENT APPLICATION NUMBER: US/10/367,057
CURRENT FILING DATE: 2003-02-14
PRIOR APPLICATION NUMBER: 60/256,911
PRIOR FILING DATE: 2002-02-14
NUMBER OF SEQ ID NOS: 198
SOFTWARE: CuiaseqList version 0.1
SEQ ID NO 16
LENGTH: 158
TYPE: PRT
ORGANISM: Homo sapiens
US-10-367-057-16

Query Match 100.0%; Score 52; DB 5; Length 158;
Best Local Similarity 100.0%; Pred. No. 0.18; 0; Indels 0; Gaps 0;
Matches 9; Conservative 0; Mismatches 0;

Qy 1 IYVRDGNPY 9
Db 59 IYVRDGNPY 67

RESULT 14
US-11-021-949-13
Sequence 13, Application US/11021949
Publication No. US20050142541A1
GENERAL INFORMATION:
APPLICANT: LU, PETER
APPLICANT: GARMAN, JONATHAN DAVID
APPLICANT: BARMAN, MICHAEL P.
APPLICANT: DIAZ-SAMIENTO, CHAMORO SONOZA
APPLICANT: SCHWEIZER, JOHANNES
TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
FILE REFERENCE: VITA-012
CURRENT APPLICATION NUMBER: US/11/021,949
CURRENT FILING DATE: 2004-12-23
PRIOR APPLICATION NUMBER: 60/532,373
PRIOR FILING DATE: 2003-12-23

NUMBER OF SEQ ID NOS: 361
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 13
LENGTH: 158
TYPE: PRT
ORGANISM: human papilloma virus (HPV)
US-11-021-949-13

Query Match 100.0%; Score 52; DB 6; Length 158;
Best Local Similarity 100.0%; Pred. No. 0.18; 0; Indels 0; Gaps 0;
Matches 9; Conservative 0; Mismatches 0;

Qy 1 IYVRDGNPY 9
Db 59 IYVRDGNPY 67

RESULT 15
US-10-472-724-2
Sequence 2, Application US/10472724
Publication No. US20040171806A1
GENERAL INFORMATION:
APPLICANT: Cid-Arregui, Angel
APPLICANT: Zur Hausen, Harald
TITLE OF INVENTION: Modified HPV B6 and E7 genes and proteins useful for vaccination
FILE REFERENCE: 4121-154
CURRENT APPLICATION NUMBER: US/10/472,724
CURRENT FILING DATE: 2003-09-17
PRIOR APPLICATION NUMBER: PCT/EP02/03271
PRIOR FILING DATE: 2002-03-22
PRIOR APPLICATION NUMBER: EP 01107271.7
PRIOR FILING DATE: 2001-03-23
NUMBER OF SEQ ID NOS: 27
SOFTWARE: PatentIn version 3.2
SEQ ID NO 2
LENGTH: 171
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic Construct
US-10-472-724-2

Query Match 100.0%; Score 52; DB 4; Length 171;
Best Local Similarity 100.0%; Pred. No. 0.19; 0; Indels 0; Gaps 0;
Matches 9; Conservative 0; Mismatches 0;

Qy 1 IYVRDGNPY 9
Db 64 IYVRDGNPY 72

RESULT 16
US-10-751-845-157
Sequence 157, Application US/10751845
Publication No. US20050100928A1
GENERAL INFORMATION:
APPLICANT: Hedley, Mary Lynne
APPLICANT: Urban, Robert G.
APPLICANT: Chicz, Robert M.
TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES
FILE REFERENCE: 08191-013001
CURRENT APPLICATION NUMBER: US/10/751,845
CURRENT FILING DATE: 2004-01-05
PRIOR APPLICATION NUMBER: US/09/664,225
PRIOR FILING DATE: 2000-08-18
PRIOR APPLICATION NUMBER: US 60/169,846
PRIOR FILING DATE: 1999-12-09
PRIOR APPLICATION NUMBER: US 60/154,665
PRIOR FILING DATE: 1999-09-16
NUMBER OF SEQ ID NOS: 163
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 157
LENGTH: 236

TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Artificial fusion sequence
US-10-751-845-157

Query Match 100.0%; Score 52; DB 5; Length 236;
Best Local Similarity 100.0%; Pred. No. 0.27;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 IYVRDGNPY 9
Db 36 IYVRDGNPY 44

RESULT 17
US-10-751-845-158
Sequence 158, Application US/10751845
Publication No. US20050100928A1
GENERAL INFORMATION:
APPLICANT: Hedley, Mary Lynne
APPLICANT: Urban, Robert G.
TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES
FILE REFERENCE: 08191-013001
CURRENT APPLICATION NUMBER: US/10/751,845
PRIOR FILING DATE: 2004-01-05
PRIOR APPLICATION NUMBER: US/09/664,225
PRIOR FILING DATE: 2000-08-18
PRIOR APPLICATION NUMBER: US 60/169,846
PRIOR FILING DATE: 1999-12-09
PRIOR APPLICATION NUMBER: US 60/154,665
PRIOR FILING DATE: 1999-09-16
NUMBER OF SEQ ID NOS: 163
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 158
LENGTH: 237
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Artificial fusion sequence
US-10-751-845-158

Query Match 100.0%; Score 52; DB 5; Length 237;
Best Local Similarity 100.0%; Pred. No. 0.27;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 IYVRDGNPY 9
Db 37 IYVRDGNPY 45

RESULT 18
US-11-072-288-1
Sequence 1, Application US/11072288
Publication No. US20050159386A1
GENERAL INFORMATION:
APPLICANT: KIENY, Marie-Paule
APPLICANT: BALLOU, Jean-Marc
APPLICANT: BIZOUARNE, Nadine
TITLE OF INVENTION: ANTITUMORAL COMPOSITION BASED ON IMMUNOGENIC
FILE REFERENCE: 017753-122
CURRENT APPLICATION NUMBER: US/11/072,288
PRIOR FILING DATE: 2005-03-07
PRIOR APPLICATION NUMBER: US/09/462,993
PRIOR FILING DATE: 2000-04-17
PRIOR APPLICATION NUMBER: PCT/FR98/01576
PRIOR FILING DATE: 1998-07-17
PRIOR APPLICATION NUMBER: FR 97/09152
PRIOR FILING DATE: 1997-07-18
NUMBER OF SEQ ID NOS: 23
SOFTWARE: PatentIn Ver. 2.2

SEQ ID NO 1
LENGTH: 243
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Derived from
OTHER INFORMATION: human papillomavirus, strain HPV-16, B6 protein
OTHER INFORMATION: fused F protein signals, clone E6*TMF.
US-11-072-288-1

Query Match 100.0%; Score 52; DB 6; Length 243;
Best Local Similarity 100.0%; Pred. No. 0.28;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 IYVRDGNPY 9
Db 87 IYVRDGNPY 95

RESULT 19
US-10-751-845-160
Sequence 160, Application US/10751845
Publication No. US20050100928A1
GENERAL INFORMATION:
APPLICANT: Hedley, Mary Lynne
APPLICANT: Urban, Robert G.
TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES
FILE REFERENCE: 08191-013001
CURRENT APPLICATION NUMBER: US/10/751,845
PRIOR FILING DATE: 2004-01-05
CURRENT APPLICATION NUMBER: US/09/664,225
PRIOR FILING DATE: 2000-08-18
PRIOR APPLICATION NUMBER: US 60/169,846
PRIOR FILING DATE: 1999-12-09
PRIOR APPLICATION NUMBER: US 60/154,665
PRIOR FILING DATE: 1999-09-16
NUMBER OF SEQ ID NOS: 163
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 160
LENGTH: 261
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Artificial fusion sequence
US-10-751-845-160

Query Match 100.0%; Score 52; DB 5; Length 261;
Best Local Similarity 100.0%; Pred. No. 0.3;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 IYVRDGNPY 9
Db 61 IYVRDGNPY 69

RESULT 20
US-09-367-309A-1
Sequence 1, Application US/09367309A
Publication No. US20020081329A1
GENERAL INFORMATION:
APPLICANT: MACFARLAN, RODERICK I.
APPLICANT: MALLIAROS, JIM
TITLE OF INVENTION: CHELATING IMMUNOSTIMULATING COMPLEXES
FILE REFERENCE: 017227/0149
CURRENT APPLICATION NUMBER: US/09/367,309A
PRIOR FILING DATE: 1999-08-11
PRIOR APPLICATION NUMBER: PCT/AU98/00080
PRIOR FILING DATE: 1998-02-13
PRIOR APPLICATION NUMBER: AU PO 5178
PRIOR FILING DATE: 1997-02-19
NUMBER OF SEQ ID NOS: 6
SOFTWARE: PatentIn Ver. 2.1

```

; SEQ ID NO 1
; LENGTH: 266
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-09-367-309A-1
```

```
Query Match          100.0%; Score 52; DB 3; Length 266;
Best Local Similarity 100.0%; Pred. No. 0.31;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 IVYRDGNPY 9
        |||||
Db       59 IVYRDGNPY 67
```

```
RESULT 21
US-10-000-903-4
; Sequence 4, Application US/10000903
; Publication No. US20020182221A1
; GENERAL INFORMATION:
; APPLICANT: Bruck, Claudine
; APPLICANT: Cabezon Silva, Teresa
; APPLICANT: Delisse, Anne-Marie Eva Fernande
; APPLICANT: Gerard, Catherine Marie Ghislaine
; APPLICANT: Lombardo-Benchelkh, Angela
; TITLE OF INVENTION: Vaccine
; FILE REFERENCE: B45107
; CURRENT APPLICATION NUMBER: US/10/000,903
; CURRENT FILING DATE: 2001-10-01
; PRIOR APPLICATION NUMBER: PCT/EP98/05285
; PRIOR FILING DATE: 1998-08-17
; PRIOR APPLICATION NUMBER: GB 9717953.5
; PRIOR FILING DATE: 1997-08-22
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 4
; LENGTH: 273
; TYPE: PRT
; ORGANISM: Homo sapien
US-10-000-903-4
```

```
Query Match          100.0%; Score 52; DB 4; Length 273;
Best Local Similarity 100.0%; Pred. No. 0.32;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 IVYRDGNPY 9
        |||||
Db       165 IVYRDGNPY 173
```

```
RESULT 22
US-10-899-771-4
; Sequence 4, Application US/10899771
; Publication No. US20050031638A1
; GENERAL INFORMATION:
; APPLICANT: Dalemans, Wilfried L.J.
; APPLICANT: Gerard, Catherine Marie Ghislaine
; TITLE OF INVENTION: Compositions Comprising Human Papilloma Virus Proteins
; TITLE OF INVENTION: and Fusion Proteins Adjuvanted with a Cpg Oligonucleotide
; FILE REFERENCE: B45124
; CURRENT APPLICATION NUMBER: US/10/899,771
; CURRENT FILING DATE: 2004-07-27
; PRIOR APPLICATION NUMBER: US/09/581,976
; PRIOR FILING DATE: 2000-06-20
; PRIOR APPLICATION NUMBER: PCT/EP98/08563
; PRIOR FILING DATE: 1998-12-18
; PRIOR APPLICATION NUMBER: GB 9727262.9
; PRIOR FILING DATE: 1997-12-24
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 4
; LENGTH: 273
; TYPE: PRT
```

```

; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Chimeraic protein (protein D from Haemophilus
; OTHER INFORMATION: Influenzae B and B6 from Human papilloma virus type
; OTHER INFORMATION: 16)
US-10-899-771-4
```

```
Query Match          100.0%; Score 52; DB 5; Length 273;
Best Local Similarity 100.0%; Pred. No. 0.32;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 IVYRDGNPY 9
        |||||
Db       165 IVYRDGNPY 173
```

```
RESULT 23
US-10-000-903-10
; Sequence 10, Application US/10000903
; Publication No. US20020182221A1
; GENERAL INFORMATION:
; APPLICANT: Bruck, Claudine
; APPLICANT: Cabezon Silva, Teresa
; APPLICANT: Delisse, Anne-Marie Eva Fernande
; APPLICANT: Gerard, Catherine Marie Ghislaine
; APPLICANT: Lombardo-Benchelkh, Angela
; TITLE OF INVENTION: Vaccine
; FILE REFERENCE: B45107
; CURRENT APPLICATION NUMBER: US/10/000,903
; CURRENT FILING DATE: 2001-10-01
; PRIOR APPLICATION NUMBER: PCT/EP98/05285
; PRIOR FILING DATE: 1998-08-17
; PRIOR APPLICATION NUMBER: GB 9717953.5
; PRIOR FILING DATE: 1997-08-22
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 10
; LENGTH: 292
; TYPE: PRT
; ORGANISM: Homo sapien
US-10-000-903-10
```

```
Query Match          100.0%; Score 52; DB 4; Length 292;
Best Local Similarity 100.0%; Pred. No. 0.34;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 IVYRDGNPY 9
        |||||
Db       184 IVYRDGNPY 192
```

```
RESULT 24
US-10-899-771-10
; Sequence 10, Application US/10899771
; Publication No. US20050031638A1
; GENERAL INFORMATION:
; APPLICANT: Dalemans, Wilfried L.J.
; APPLICANT: Gerard, Catherine Marie Ghislaine
; TITLE OF INVENTION: Compositions Comprising Human Papilloma Virus Proteins
; TITLE OF INVENTION: and Fusion Proteins Adjuvanted with a Cpg Oligonucleotide
; FILE REFERENCE: B45124
; CURRENT APPLICATION NUMBER: US/10/899,771
; CURRENT FILING DATE: 2004-07-27
; PRIOR APPLICATION NUMBER: US/09/581,976
; PRIOR FILING DATE: 2000-06-20
; PRIOR APPLICATION NUMBER: PCT/EP98/08563
; PRIOR FILING DATE: 1998-12-18
; PRIOR APPLICATION NUMBER: GB 9727262.9
; PRIOR FILING DATE: 1997-12-24
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 10
; LENGTH: 292
```

```
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Chimeric protein (Clyta from Streptococcus
OTHER INFORMATION: pneumoniae and E6 from Human papilloma virus type
OTHER INFORMATION: 16)
US-10-899-771-10
```

```
Query Match      100.0%; Score 52; DB 5; Length 292;
Best Local Similarity 100.0%; Pred. No. 0.34;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy      1 IYVRDGNPY 9
        |||||
Db      184 IYVRDGNPY 192
```

```
RESULT 25
US-10-000-903-6
Sequence 6, Application US/10000903
Publication No. US20020182221A1
GENERAL INFORMATION:
APPLICANT: Bruck, Claudine
APPLICANT: Cabezon Silva, Teresa
APPLICANT: Delisse, Anne-Marie Eva Bernande
APPLICANT: Gerard, Catherine Marie Ghislaine
APPLICANT: Lombardo-Bencheikh, Angela
TITLE OF INVENTION: Vaccine
FILE REFERENCE: B45107
CURRENT APPLICATION NUMBER: US/10/000,903
CURRENT FILING DATE: 2001-10-01
PRIOR APPLICATION NUMBER: PCT/EP98/05285
PRIOR FILING DATE: 1998-08-17
PRIOR APPLICATION NUMBER: GB 9717953.5
PRIOR FILING DATE: 1997-08-22
NUMBER OF SEQ ID NOS: 23
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 6
LENGTH: 371
TYPE: PRT
ORGANISM: Homo sapien
US-10-000-903-6
```

```
Query Match      100.0%; Score 52; DB 4; Length 371;
Best Local Similarity 100.0%; Pred. No. 0.45;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy      1 IYVRDGNPY 9
        |||||
Db      165 IYVRDGNPY 173
```

```
RESULT 26
US-10-899-771-6
Sequence 6, Application US/10899771
Publication No. US20050031638A1
GENERAL INFORMATION:
APPLICANT: Dalemans, Wilfried L.J.
APPLICANT: Gerard, Catherine Marie Ghislaine
TITLE OF INVENTION: Compositions Comprising Human Papilloma Virus Proteins
FILE REFERENCE: B45124
CURRENT APPLICATION NUMBER: US/10/899,771
CURRENT FILING DATE: 2004-07-27
PRIOR APPLICATION NUMBER: US/09/581,976
PRIOR FILING DATE: 2000-06-20
PRIOR APPLICATION NUMBER: PCT/EP98/08563
PRIOR FILING DATE: 1998-12-18
PRIOR APPLICATION NUMBER: GB 9727262.9
PRIOR FILING DATE: 1997-12-24
NUMBER OF SEQ ID NOS: 28
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 6
```

```
LENGTH: 371
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Chimeric protein (protein D from Haemophilus
OTHER INFORMATION: influenzae B and B6E7 fusion from Human papilloma
OTHER INFORMATION: virus type 16)
US-10-899-771-6
```

```
Query Match      100.0%; Score 52; DB 5; Length 371;
Best Local Similarity 100.0%; Pred. No. 0.45;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy      1 IYVRDGNPY 9
        |||||
Db      165 IYVRDGNPY 173
```

```
RESULT 27
US-10-000-903-14
Sequence 14, Application US/10000903
Publication No. US20020182221A1
GENERAL INFORMATION:
APPLICANT: Bruck, Claudine
APPLICANT: Cabezon Silva, Teresa
APPLICANT: Delisse, Anne-Marie Eva Bernande
APPLICANT: Gerard, Catherine Marie Ghislaine
APPLICANT: Lombardo-Bencheikh, Angela
TITLE OF INVENTION: Vaccine
FILE REFERENCE: B45107
CURRENT APPLICATION NUMBER: US/10/000,903
CURRENT FILING DATE: 2001-10-01
PRIOR APPLICATION NUMBER: PCT/EP98/05285
PRIOR FILING DATE: 1998-08-17
PRIOR APPLICATION NUMBER: GB 9717953.5
PRIOR FILING DATE: 1997-08-22
NUMBER OF SEQ ID NOS: 23
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 14
LENGTH: 390
TYPE: PRT
ORGANISM: Homo sapien
US-10-000-903-14
```

```
Query Match      100.0%; Score 52; DB 4; Length 390;
Best Local Similarity 100.0%; Pred. No. 0.47;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy      1 IYVRDGNPY 9
        |||||
Db      184 IYVRDGNPY 192
```

```
RESULT 28
US-10-899-771-14
Sequence 14, Application US/10899771
Publication No. US20050031638A1
GENERAL INFORMATION:
APPLICANT: Dalemans, Wilfried L.J.
APPLICANT: Gerard, Catherine Marie Ghislaine
TITLE OF INVENTION: Compositions Comprising Human Papilloma Virus Proteins
FILE REFERENCE: B45124
CURRENT APPLICATION NUMBER: US/10/899,771
CURRENT FILING DATE: 2004-07-27
PRIOR APPLICATION NUMBER: US/09/581,976
PRIOR FILING DATE: 2000-06-20
PRIOR APPLICATION NUMBER: PCT/EP98/08563
PRIOR FILING DATE: 1998-12-18
PRIOR APPLICATION NUMBER: GB 9727262.9
PRIOR FILING DATE: 1997-12-24
NUMBER OF SEQ ID NOS: 28
SOFTWARE: FastSeq for Windows Version 3.0
```


SEQ ID NO 14
LENGTH: 390
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Chimeraic protein (Clyta from Streptococcus
OTHER INFORMATION: Pneumoniae and E6E7 fusion from Human papilloma
OTHER INFORMATION: virus type 16)
US-10-899-771-14

Query Match 100.0%; Score 52; DB 5; Length 390;
Best Local Similarity 100.0%; Pred. No. 0.47; 0; Indels 0; Gaps 0;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 IVYRDGNPY 9
DB 184 IVYRDGNPY 192

RESULT 29
US-09-739-466C-11
Sequence 11, Application US/09739466C
Publication No. US20050107585A1
GENERAL INFORMATION:
APPLICANT: MURRAY, JOSEPH S
APPLICANT: SIHMAN, TERUNA J
APPLICANT: HU, YONGBO
TITLE OF INVENTION: SIGNAL-1/SIGNAL-2 BIFUNCTIONAL PEPTIDE INHIBITORS
FILE REFERENCE: 23902-08805
CURRENT APPLICATION NUMBER: US/09/739,466C
CURRENT FILING DATE: 2000-12-18
NUMBER OF SEQ ID NOS: 46
SOFTWARE: PatentIn Ver. 3.2
SEQ ID NO 11
LENGTH: 9
TYPE: PRT
ORGANISM: Human papillomavirus
US-09-739-466C-11

Query Match 92.3%; Score 48; DB 3; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.7e+06; 0; Indels 0; Gaps 0;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 VYRDGNPY 9
DB 1 VYRDGNPY 8

RESULT 30
US-11-021-949-15
Sequence 15, Application US/11021949
Publication No. US20050142541A1
GENERAL INFORMATION:
APPLICANT: LU, PETER
APPLICANT: GARMAN, JONATHAN DAVID
APPLICANT: BELMARES, MICHAEL P.
APPLICANT: DIAZ-SARMIENTO, CHAMORRO SOMOZA
APPLICANT: SCHWEIZER, JOHANNES
TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
FILE REFERENCE: VITA-012
CURRENT APPLICATION NUMBER: US/11/021,949
CURRENT FILING DATE: 2004-12-23
PRIOR APPLICATION NUMBER: 60/532,373
PRIOR FILING DATE: 2003-12-23
NUMBER OF SEQ ID NOS: 361
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 15
LENGTH: 149
TYPE: PRT
ORGANISM: human papilloma virus (HPV)
US-11-021-949-15

Query Match 92.3%; Score 48; DB 6; Length 149;
Best Local Similarity 88.9%; Pred. No. 0.89; 0; Indels 0; Gaps 0;
Matches 8; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 IVYRDGNPY 9
DB 52 IVYRDGNPY 60

RESULT 31
US-11-021-949-17
Sequence 17, Application US/11021949
Publication No. US20050142541A1
GENERAL INFORMATION:
APPLICANT: LU, PETER
APPLICANT: GARMAN, JONATHAN DAVID
APPLICANT: BELMARES, MICHAEL P.
APPLICANT: DIAZ-SARMIENTO, CHAMORRO SOMOZA
APPLICANT: SCHWEIZER, JOHANNES
TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
FILE REFERENCE: VITA-012
CURRENT APPLICATION NUMBER: US/11/021,949
CURRENT FILING DATE: 2004-12-23
PRIOR APPLICATION NUMBER: 60/532,373
PRIOR FILING DATE: 2003-12-23
NUMBER OF SEQ ID NOS: 361
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 17
LENGTH: 148
TYPE: PRT
ORGANISM: human papilloma virus (HPV)
US-11-021-949-17

Query Match 88.5%; Score 46; DB 6; Length 148;
Best Local Similarity 88.9%; Pred. No. 2.1; 1; Indels 0; Gaps 0;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 IVYRDGNPY 9
DB 52 IVYRDGNPY 60

RESULT 32
US-11-021-949-24
Sequence 24, Application US/11021949
Publication No. US20050142541A1
GENERAL INFORMATION:
APPLICANT: LU, PETER
APPLICANT: GARMAN, JONATHAN DAVID
APPLICANT: BELMARES, MICHAEL P.
APPLICANT: DIAZ-SARMIENTO, CHAMORRO SOMOZA
APPLICANT: SCHWEIZER, JOHANNES
TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
FILE REFERENCE: VITA-012
CURRENT APPLICATION NUMBER: US/11/021,949
CURRENT FILING DATE: 2004-12-23
PRIOR APPLICATION NUMBER: 60/532,373
PRIOR FILING DATE: 2003-12-23
NUMBER OF SEQ ID NOS: 361
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 24
LENGTH: 151
TYPE: PRT
ORGANISM: human papilloma virus (HPV)
US-11-021-949-24

Query Match 88.5%; Score 46; DB 6; Length 151;
Best Local Similarity 88.9%; Pred. No. 2.1; 1; Indels 0; Gaps 0;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 IVYRDGNPY 9

Db 52 IYVRDNNPY 60

```
|||||
RESULT 33
US-10-367-095-10
; Sequence 10, Application US/10367095
; Publication No. US20030228696A1
; GENERAL INFORMATION:
; APPLICANT: Robin A. Robinson
; TITLE OF INVENTION: No. US20030228696A1 Insect Cell Line
; FILE REFERENCE: 44149-1US1
; CURRENT APPLICATION NUMBER: US/10/367,095
; PRIOR FILING DATE: 2003-02-14
; PRIOR APPLICATION NUMBER: US 60/356,119
; PRIOR FILING DATE: 2002-02-14
; PRIOR APPLICATION NUMBER: US 60/356,161
; PRIOR FILING DATE: 2002-02-14
; PRIOR APPLICATION NUMBER: US 60/356,118
; PRIOR FILING DATE: 2002-02-14
; PRIOR APPLICATION NUMBER: US 60/356,133
; PRIOR FILING DATE: 2002-02-14
; PRIOR APPLICATION NUMBER: US 60/356,157
; PRIOR FILING DATE: 2002-02-14
; PRIOR APPLICATION NUMBER: US 60/356,156
; PRIOR FILING DATE: 2002-02-14
; PRIOR APPLICATION NUMBER: US 60/356,123
; PRIOR FILING DATE: 2002-02-14
; PRIOR APPLICATION NUMBER: US 60/356,113
; PRIOR FILING DATE: 2002-02-14
; PRIOR APPLICATION NUMBER: US 60/356,154
; PRIOR FILING DATE: 2002-02-14
; PRIOR APPLICATION NUMBER: US 60/356,135
; PRIOR FILING DATE: 2002-02-14
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 13
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 10
; LENGTH: 536
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: HPV-16 L2/B6 fusion protein
US-10-367-095-10
Query Match 86.5%; Score 45; DB 4; Length 536;
Best Local Similarity 100.0%; Pred. No. 13;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

QY 1 IYVRDGNP 8
Db 529 IYVRDGNP 536

```
|||||
RESULT 34
US-10-368-046-10
; Sequence 10, Application US/10368046
; Publication No. US20040063188A1
; GENERAL INFORMATION:
; APPLICANT: Robin A. Robinson
; APPLICANT: Victoria Cioce
; TITLE OF INVENTION: Method for Isolation and Purification of
; FILE REFERENCE: 44149-3US1
; CURRENT APPLICATION NUMBER: US/10/368,046
; PRIOR FILING DATE: 2003-02-15
; PRIOR APPLICATION NUMBER: US 60/356,119
; PRIOR FILING DATE: 2002-02-14
; PRIOR APPLICATION NUMBER: US 60/356,161
; PRIOR FILING DATE: 2002-02-14
; PRIOR APPLICATION NUMBER: US 60/356,118
; PRIOR FILING DATE: 2002-02-14
; PRIOR APPLICATION NUMBER: US 60/356,133
```

```
;; PRIOR FILING DATE: 2002-02-14
;; PRIOR APPLICATION NUMBER: US 60/356,157
;; PRIOR FILING DATE: 2002-02-14
;; PRIOR APPLICATION NUMBER: US 60/356,156
;; PRIOR FILING DATE: 2002-02-14
;; PRIOR APPLICATION NUMBER: US 60/356,123
;; PRIOR FILING DATE: 2002-02-14
;; PRIOR APPLICATION NUMBER: US 60/356,113
;; PRIOR FILING DATE: 2002-02-14
;; PRIOR APPLICATION NUMBER: US 60/356,154
;; PRIOR FILING DATE: 2002-02-14
;; PRIOR APPLICATION NUMBER: US 60/356,135
;; PRIOR FILING DATE: 2002-02-14
;; Remaining Prior Application data removed - See File Wrapper or PALM.
;; NUMBER OF SEQ ID NOS: 13
;; SOFTWARE: FastSeq for Windows Version 4.0
;; SEQ ID NO 10
;; LENGTH: 536
;; TYPE: PRT
;; ORGANISM: Artificial Sequence
;; FEATURE:
;; OTHER INFORMATION: HPV-16 L2/B6 fusion protein
US-10-368-046-10
```

```
QY 1 IYVRDGNP 8
Db 529 IYVRDGNP 536
Query Match 86.5%; Score 45; DB 4; Length 536;
Best Local Similarity 100.0%; Pred. No. 13;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
RESULT 35
US-10-367-367-10
; Sequence 10, Application US/10367367
; Publication No. US20040121465A1
; GENERAL INFORMATION:
; APPLICANT: Robin A. Robinson
; TITLE OF INVENTION: Optimization of Gene Sequences of
; FILE REFERENCE: 44149-2US1
; CURRENT APPLICATION NUMBER: US/10/367,367
; PRIOR FILING DATE: 2003-02-15
; PRIOR APPLICATION NUMBER: US 60/356,119
; PRIOR FILING DATE: 2002-02-14
; PRIOR APPLICATION NUMBER: US 60/356,161
; PRIOR FILING DATE: 2002-02-14
; PRIOR APPLICATION NUMBER: US 60/356,118
; PRIOR FILING DATE: 2002-02-14
; PRIOR APPLICATION NUMBER: US 60/356,133
; PRIOR FILING DATE: 2002-02-14
; PRIOR APPLICATION NUMBER: US 60/356,157
; PRIOR FILING DATE: 2002-02-14
; PRIOR APPLICATION NUMBER: US 60/356,156
; PRIOR FILING DATE: 2002-02-14
; NUMBER OF SEQ ID NOS: 13
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 10
; LENGTH: 536
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: HPV-16 L2/B6 fusion protein
US-10-367-367-10
```

```
QY 1 IYVRDGNP 8
Db 529 IYVRDGNP 536
Query Match 86.5%; Score 45; DB 4; Length 536;
Best Local Similarity 100.0%; Pred. No. 13;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
RESULT 36
US-10-918-337-10
; Sequence 10, Application US/10918337
; Publication No. US200501181911
; GENERAL INFORMATION:
; APPLICANT: NOVAVAX, INC., et al.
; TITLE OF INVENTION: Optimization of Gene Sequences of
; TITLE OF INVENTION: Chimeric Virus-Like Particles for Expression in Insect Cells
; FILE REFERENCE: 19065/2132
; CURRENT APPLICATION NUMBER: US/10/918,337
; PRIOR APPLICATION NUMBER: PCT/US03/04473
; PRIOR FILING DATE: 2003-02-14
; PRIOR APPLICATION NUMBER: US 60/356,119
; PRIOR FILING DATE: 2002-02-14
; PRIOR APPLICATION NUMBER: US 60/356,161
; PRIOR FILING DATE: 2002-02-14
; PRIOR APPLICATION NUMBER: US 60/356,118
; PRIOR FILING DATE: 2002-02-14
; PRIOR APPLICATION NUMBER: US 60/356,133
; PRIOR FILING DATE: 2002-02-14
; PRIOR APPLICATION NUMBER: US 60/356,157
; PRIOR FILING DATE: 2002-02-14
; PRIOR APPLICATION NUMBER: US 60/356,156
; PRIOR FILING DATE: 2002-02-14
; PRIOR APPLICATION NUMBER: US 60/356,123
; PRIOR FILING DATE: 2002-02-14
; PRIOR APPLICATION NUMBER: US 60/356,113
; PRIOR FILING DATE: 2002-02-14
; PRIOR APPLICATION NUMBER: US 60/356,154
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 13
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 10
; LENGTH: 536
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: HPV-16 L2/E6 fusion protein
US-10-918-337-10

Query Match      86.5%; Score 45; DB 5; Length 536;
Best Local Similarity 100.0%; Pred. No. 13;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 IVYRDGNP 8
        |||||
Db      529 IVYRDGNP 536

RESULT 37
US-10-476-570-11
; Sequence 11, Application US/10476570
; Publication No. US20040170644A1
; GENERAL INFORMATION:
; APPLICANT: COMMISSARIAT A L'ENERGIE ATOMIQUE
; APPLICANT: INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE
; APPLICANT: MAILLIERE, Bernard
; APPLICANT: BOURGAULT-VILLADA, Isabelle
; APPLICANT: POUEVLE-MORATILLE, Sandra
; TITLE OF INVENTION: Mixture of peptides derived from E6 and/or E7
; TITLE OF INVENTION: papillomavirus proteins and uses thereof
; FILE REFERENCE: 45636-5071-US
; CURRENT APPLICATION NUMBER: US/10/476,570
; PRIOR FILING DATE: 2003-11-04
; PRIOR APPLICATION NUMBER: PCT/FR02/01533
; PRIOR FILING DATE: 2002-05-03
; PRIOR APPLICATION NUMBER: FR 01 05980
; PRIOR FILING DATE: 2001-05-04
```

```
; NUMBER OF SEQ ID NOS: 63
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 11
; LENGTH: 20
; TYPE: PRT
; ORGANISM: artificial sequence
; FEATURE:
; OTHER INFORMATION: Description of the artificial sequence: peptide E6 61-80
US-10-476-570-11

Query Match      84.6%; Score 44; DB 4; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.54;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      3 YRDGNPY 9
        |||||
Db      1 YRDGNPY 7

RESULT 38
US-11-021-949-16
; Sequence 16, Application US/11021949
; Publication No. US20050142541A1
; GENERAL INFORMATION:
; APPLICANT: LU, PETER
; APPLICANT: GARMAN, JONATHAN DAVID
; APPLICANT: BELMARES, MICHAEL P.
; APPLICANT: DIAZ-SARMIENTO, CHAMORRO SOMOZA
; APPLICANT: SCHWEIZER, JOHANNES
; TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
; TITLE OF INVENTION: AND METHODS OF THEIR USE
; FILE REFERENCE: VITA-012
; CURRENT APPLICATION NUMBER: US/11/021,949
; PRIOR FILING DATE: 2004-12-23
; PRIOR APPLICATION NUMBER: 60/532,373
; PRIOR FILING DATE: 2003-12-23
; NUMBER OF SEQ ID NOS: 361
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 16
; LENGTH: 149
; TYPE: PRT
; ORGANISM: human papilloma virus (HPV)
US-11-021-949-16

Query Match      82.7%; Score 43; DB 6; Length 149;
Best Local Similarity 66.7%; Pred. No. 7.3;
Matches 6; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY      1 IVYRDGNP 9
        :|||:
Db      52 VYREGNPF 60

RESULT 39
US-11-021-949-360
; Sequence 360, Application US/11021949
; Publication No. US20050142541A1
; GENERAL INFORMATION:
; APPLICANT: LU, PETER
; APPLICANT: GARMAN, JONATHAN DAVID
; APPLICANT: BELMARES, MICHAEL P.
; APPLICANT: DIAZ-SARMIENTO, CHAMORRO SOMOZA
; APPLICANT: SCHWEIZER, JOHANNES
; TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
; TITLE OF INVENTION: AND METHODS OF THEIR USE
; FILE REFERENCE: VITA-012
; CURRENT APPLICATION NUMBER: US/11/021,949
; PRIOR FILING DATE: 2004-12-23
; PRIOR APPLICATION NUMBER: 60/532,373
; PRIOR FILING DATE: 2003-12-23
; NUMBER OF SEQ ID NOS: 361
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 360
```

LENGTH: 149
TYPE: PRT
ORGANISM: human papilloma virus (HPV)
US-11-021-949-360

Query Match 82.7%; Score 43; DB 6; Length 149;
Best Local Similarity 88.9%; Pred. No. 7.3;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 IVYRDGNPY 9
|||
Db 52 IVYRCGNPY 60

RESULT 40
US-11-021-949-21
Sequence 21, Application US/11021949
Publication No. US20050142541A1
GENERAL INFORMATION:
APPLICANT: LU, PETER
APPLICANT: GARMAN, JONATHAN DAVID
APPLICANT: BELMARES, MICHAEL P.
APPLICANT: DIAZ-SARMIENTO, CHAMORRO SOMOZA
APPLICANT: SCHWEIZER, JOHANNES
TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
TITLE OF INVENTION: AND METHODS OF THEIR USE
FILE REFERENCE: VITA-012
CURRENT APPLICATION NUMBER: US/11/021,949
CURRENT FILING DATE: 2004-12-23
PRIOR APPLICATION NUMBER: 60/532,373
PRIOR FILING DATE: 2003-12-23
NUMBER OF SEQ ID NOS: 361
SOFTWARE: FASTSEQ for Windows Version 4.0
SEQ ID NO 21
LENGTH: 154
TYPE: PRT
ORGANISM: human papilloma virus (HPV)
US-11-021-949-21

Query Match 82.7%; Score 43; DB 6; Length 154;
Best Local Similarity 77.8%; Pred. No. 7.6;
Matches 7; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 IVYRDGNPY 9
|||
Db 56 VVYRDGYPY 64

RESULT 41
US-11-021-949-14
Sequence 14, Application US/11021949
Publication No. US20050142541A1
GENERAL INFORMATION:
APPLICANT: LU, PETER
APPLICANT: GARMAN, JONATHAN DAVID
APPLICANT: BELMARES, MICHAEL P.
APPLICANT: DIAZ-SARMIENTO, CHAMORRO SOMOZA
APPLICANT: SCHWEIZER, JOHANNES
TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
TITLE OF INVENTION: AND METHODS OF THEIR USE
FILE REFERENCE: VITA-012
CURRENT APPLICATION NUMBER: US/11/021,949
CURRENT FILING DATE: 2004-12-23
PRIOR APPLICATION NUMBER: 60/532,373
PRIOR FILING DATE: 2003-12-23
NUMBER OF SEQ ID NOS: 361
SOFTWARE: FASTSEQ for Windows Version 4.0
SEQ ID NO 14
LENGTH: 149
TYPE: PRT
ORGANISM: human papilloma virus (HPV)
US-11-021-949-14

Query Match 80.8%; Score 42; DB 6; Length 149;
Best Local Similarity 77.8%; Pred. No. 11;
Matches 7; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 IVYRDGNPY 9
|||
Db 52 IVYREGQPY 60

RESULT 42
US-10-424-599-270568
Sequence 270568, Application US/10424599
Publication No. US20040031072A1
GENERAL INFORMATION:
APPLICANT: La Rosa Thomas J
APPLICANT: Kovalic David K
APPLICANT: Zhou Yihua
APPLICANT: Cao Yongwei
TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
FILE REFERENCE: 38-21(53223)B
CURRENT APPLICATION NUMBER: US/10/424,599
CURRENT FILING DATE: 2003-04-28
NUMBER OF SEQ ID NOS: 285684
SEQ ID NO 270568
LENGTH: 436
TYPE: PRT
ORGANISM: Glycine max
FEATURE:
OTHER INFORMATION: Clone ID: PAT_MRT3847_86340C.1.pcp
US-10-424-599-270568

Query Match 80.8%; Score 42; DB 4; Length 436;
Best Local Similarity 87.5%; Pred. No. 36;
Matches 7; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2 VYRDGNPY 9
|||
Db 356 VYSDGNPY 363

RESULT 43
US-10-425-114-45886
Sequence 45886, Application US/10425114
Publication No. US20040034888A1
GENERAL INFORMATION:
APPLICANT: Liu, Jingdong
APPLICANT: Zhou, Yihua
APPLICANT: Kovalic, David K.
APPLICANT: Screen, Steven E
APPLICANT: Tabacka, Jack E
APPLICANT: Cao, Yongwei
TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
FILE REFERENCE: 38-21(53313)B
CURRENT APPLICATION NUMBER: US/10/425,114
CURRENT FILING DATE: 2003-04-28
NUMBER OF SEQ ID NOS: 73128
SEQ ID NO 45886
LENGTH: 443
TYPE: PRT
ORGANISM: Glycine max
FEATURE:
OTHER INFORMATION: Clone ID: 701061102_FLI.pcp
US-10-425-114-45886

Query Match 80.8%; Score 42; DB 4; Length 443;
Best Local Similarity 87.5%; Pred. No. 36;
Matches 7; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2 VYRDGNPY 9
|||
Db 363 VYSDGNPY 370

RESULT 44
US-10-425-114-46250
; Sequence 46250, Application US/10425114
; Publication No. US2004003488A1
; GENERAL INFORMATION:
; APPLICANT: Liu, Jingdong
; APPLICANT: Zhou, Yihua
; APPLICANT: Kovalic, David K.
; APPLICANT: Screen, Steven E.
; APPLICANT: Tabaska, Jack E.
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated with
; FILE REFERENCE: 38-21(5313)B
; CURRENT APPLICATION NUMBER: US/10/425,114
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 73128
; SEQ ID NO 46250
; LENGTH: 443
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; OTHER INFORMATION: Clone ID: 701148747_FLI.pep
US-10-425-114-46250

Query Match 80.8%; Score 42; DB 4; Length 443;
Best Local Similarity 87.5%; Pred. No. 36;
Matches 7; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2 VYRDGNPY 9
 ||| ||| |||
DB 363 VYSDGNPY 370

RESULT 45
US-10-425-114-51704
; Sequence 51704, Application US/10425114
; Publication No. US2004003488A1
; GENERAL INFORMATION:
; APPLICANT: Liu, Jingdong
; APPLICANT: Zhou, Yihua
; APPLICANT: Kovalic, David K.
; APPLICANT: Screen, Steven E.
; APPLICANT: Tabaska, Jack E.
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated with
; FILE REFERENCE: 38-21(5313)B
; CURRENT APPLICATION NUMBER: US/10/425,114
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 73128
; SEQ ID NO 51704
; LENGTH: 443
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; OTHER INFORMATION: Clone ID: 700873423_FLI.pep
US-10-425-114-51704

Query Match 80.8%; Score 42; DB 4; Length 443;
Best Local Similarity 87.5%; Pred. No. 36;
Matches 7; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2 VYRDGNPY 9
 ||| ||| |||
DB 363 VYSDGNPY 370

RESULT 46
US-11-021-949-361
; Sequence 361, Application US/11021949

Publication No. US20050142541A1
; GENERAL INFORMATION:
; APPLICANT: LU, PETER
; APPLICANT: GARMAN, JONATHAN DAVID
; APPLICANT: BELMARES, MICHAEL P.
; APPLICANT: DIAZ-SARMIENTO, CHAMORRO SOMOZA
; APPLICANT: SCHWEIZER, JOHANNES
; TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
; FILE REFERENCE: VITA-012
; CURRENT APPLICATION NUMBER: US/11/021,949
; CURRENT FILING DATE: 2004-12-23
; PRIOR APPLICATION NUMBER: 60/532,373
; PRIOR FILING DATE: 2003-12-23
; NUMBER OF SEQ ID NOS: 361
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 361
; LENGTH: 158
; TYPE: PRT
; ORGANISM: human papilloma virus (HPV)
US-11-021-949-361

Query Match 78.8%; Score 41; DB 6; Length 158;
Best Local Similarity 77.8%; Pred. No. 18;
Matches 7; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 IVYRDGNPY 9
 ||| ||| |||
DB 54 IVYRNGEYPY 62

RESULT 47
US-11-021-949-25
; Sequence 25, Application US/11021949
; Publication No. US20050142541A1
; GENERAL INFORMATION:
; APPLICANT: LU, PETER
; APPLICANT: GARMAN, JONATHAN DAVID
; APPLICANT: BELMARES, MICHAEL P.
; APPLICANT: DIAZ-SARMIENTO, CHAMORRO SOMOZA
; APPLICANT: SCHWEIZER, JOHANNES
; TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
; FILE REFERENCE: VITA-012
; CURRENT APPLICATION NUMBER: US/11/021,949
; CURRENT FILING DATE: 2004-12-23
; PRIOR APPLICATION NUMBER: 60/532,373
; PRIOR FILING DATE: 2003-12-23
; NUMBER OF SEQ ID NOS: 361
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 25
; LENGTH: 151
; TYPE: PRT
; ORGANISM: human papilloma virus (HPV)
US-11-021-949-25

Query Match 76.9%; Score 40; DB 6; Length 151;
Best Local Similarity 77.8%; Pred. No. 26;
Matches 7; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 IVYRDGNPY 9
 ||| ||| |||
DB 52 IVYRDNTPEY 60

RESULT 48
US-10-437-963-195496
; Sequence 195496, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua

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; APPLICANT: Cao, Yongwei
; APPLICANT: Wu, Wei
; APPLICANT: Boukharov, Andrey A.
; APPLICANT: Barbazuk, Brad
; APPLICANT: Li, Ping
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53221)B
; CURRENT APPLICATION NUMBER: US/10/437,963
; CURRENT FILING DATE: 2003-05-14
; NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 195496
; LENGTH: 374
; TYPE: PRT
; ORGANISM: Oryza sativa
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT4530_91439C.1.pep
US-10-437-963-195496
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; Publication No. US20040123343A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; APPLICANT: Wu, Wei
; APPLICANT: Boukharov, Andrey A.
; APPLICANT: Barbazuk, Brad
; APPLICANT: Li, Ping
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53221)B
; CURRENT APPLICATION NUMBER: US/10/437,963
; CURRENT FILING DATE: 2003-05-14
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; Publication No. US20040123343A1
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; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
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; APPLICANT: Wu, Wei
; APPLICANT: Boukharov, Andrey A.
; APPLICANT: Barbazuk, Brad
; APPLICANT: Li, Ping
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53221)B
; CURRENT APPLICATION NUMBER: US/10/437,963
; CURRENT FILING DATE: 2003-05-14
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Job time : 60 secs
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GenCore version 5.1.7
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OM protein - protein search, using sw model

Run on: May 5, 2006, 08:29:56 ; Search time 8.4 Seconds
(without alignments)
49.591 Million cell updates/sec

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Scoring table: BIOSUM62
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Searched: 235405 seqs, 46284737 residues

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Post-processing: Minimum Match 0%
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Listing first 1000 summaries

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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6	52	100.0	248	9	US-10-530-253-5
7	52	100.0	248	9	US-10-530-253-7
8	52	100.0	248	9	US-10-530-253-9
9	52	100.0	248	9	US-10-530-253-11
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12	48	92.3	15	9	US-10-530-061-1710
13	48	92.3	149	9	US-10-530-253-24
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15	46	88.5	148	9	US-10-530-253-22
16	46	88.5	151	9	US-10-530-253-21
17	43	82.7	149	9	US-10-530-061-1677
18	43	82.7	149	9	US-10-530-253-17
19	42	80.6	149	9	US-10-530-253-18
20	40	76.9	8	9	US-10-530-061-848
21	40	76.9	10	9	US-10-530-061-793

22	38	73.1	15	9	US-10-530-061-1697	Sequence 1697, Ap
23	38	73.1	158	9	US-10-530-253-19	Sequence 19, Appl
24	38	73.1	158	9	US-10-530-253-26	Sequence 26, Appl
25	38	73.1	707	11	US-11-079-463-7530	Sequence 7530, Ap
26	37	71.2	160	9	US-10-530-253-25	Sequence 25, Appl
27	37	71.2	363	11	US-11-098-686-11153	Sequence 11153, A
28	36	69.2	16	10	US-11-224-623-15	Sequence 15, Appl
29	36	69.2	100	10	US-11-239-308-45	Sequence 45, Appl
30	36	69.2	100	10	US-11-239-308-46	Sequence 46, Appl
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33	36	69.2	100	11	US-11-084-554-103	Sequence 103, App
34	36	69.2	100	11	US-11-084-554-107	Sequence 107, App
35	36	69.2	100	11	US-11-128-900-113	Sequence 113, App
36	36	69.2	100	11	US-11-004-590-82	Sequence 82, Appl
37	36	69.2	100	11	US-11-004-590-83	Sequence 83, Appl
38	36	69.2	100	11	US-11-136-250-103	Sequence 103, App
39	36	69.2	100	11	US-11-136-250-107	Sequence 107, App
40	36	69.2	101	11	US-11-155-843-126	Sequence 126, App
41	36	69.2	102	11	US-11-155-843-37	Sequence 37, Appl
42	36	69.2	112	10	US-11-239-308-12	Sequence 12, Appl
43	36	69.2	113	10	US-11-239-308-2	Sequence 2, Appl
44	36	69.2	132	11	US-11-155-843-190	Sequence 190, App
45	36	69.2	139	11	US-11-128-900-25	Sequence 25, Appl
46	36	69.2	139	11	US-11-128-900-114	Sequence 114, App
47	36	69.2	253	11	US-10-793-626-2428	Sequence 2428, Ap
48	36	69.2	253	11	US-11-054-815-1964	Sequence 1964, Ap
49	36	69.2	253	11	US-11-266-444-1964	Sequence 1964, Ap
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51	36	69.2	261	11	US-11-056-825-2	Sequence 2, Appl
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55	35	67.3	113	11	US-11-224-623-9	Sequence 11, Appl
56	35	67.3	219	9	US-10-487-324A-11	Sequence 11, Appl
57	35	67.3	219	11	US-11-224-623-11	Sequence 11, Appl
58	35	67.3	301	11	US-11-024-959-369	Sequence 369, App
59	35	67.3	515	11	US-11-188-298-21155	Sequence 21155, A
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63	34	65.4	15	9	US-10-530-061-1704	Sequence 1704, Ap
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78	34	65.4	669	11	US-11-096-568A-31881	Sequence 31881, A
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183	31	59.6	338	11	US-11-052-554A-228	Sequence 228, App
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187	31	59.6	417	11	US-11-043-806-385	Sequence 385, App
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189	31	59.6	425	11	US-11-153-238-1	Sequence 1, Appl1
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196	31	59.6	626	11	US-11-188-298-19808	Sequence 19808, A
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206	31	59.6	940	11	US-11-144-985-3	Sequence 3, Appl1
207	31	59.6	1020	11	US-11-144-985-3	Sequence 6313, Ap
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209	31	59.6	1102	11	US-11-079-463-6319	Sequence 28, Appl
210	31	59.6	1258	9	US-11-012-762-28	Sequence 47, Appl
211	31	59.6	1258	9	US-10-528-031-47	Sequence 260, App
212	31	59.6	1330	9	US-10-453-372-260	Sequence 260, App
213	31	59.6	1342	9	US-10-453-372-266	Sequence 266, App
214	31	59.6	1542	9	US-10-453-372-280	Sequence 280, App
215	31	59.6	1542	9	US-10-453-372-280	Sequence 974, App
216	31	59.6	1649	9	US-10-995-561-974	Sequence 36, Appl
217	31	59.6	1694	11	US-11-135-855-36	Sequence 36, App
218	31	59.6	1700	9	US-10-453-372-398	Sequence 398, App
219	31	59.6	1700	9	US-10-453-372-412	Sequence 412, App
220	31	59.6	1700	9	US-10-453-372-416	Sequence 416, App
221	31	59.6	1700	9	US-10-453-372-416	Sequence 416, App
222	31	59.6	1700	9	US-10-453-372-418	Sequence 418, App
223	31	59.6	1709	9	US-10-995-561-973	Sequence 973, App
224	31	59.6	1709	9	US-10-453-372-410	Sequence 410, App
225	31	59.6	1709	9	US-11-135-855-35	Sequence 35, Appl
226	31	59.6	1966	11	US-11-089-508-2	Sequence 2, Appl1
227	31	59.6	1966	11	US-11-089-508-6	Sequence 6, Appl1
228	30.5	57.7	257	9	US-10-506-454-654	Sequence 654, App
229	30	57.7	257	9	US-10-530-061-635	Sequence 635, App
230	30	57.7	16	11	US-11-177-648-4	Sequence 4, Appl1
231	30	57.7	16	11	US-11-004-399-2113	Sequence 2113, Ap
232	30	57.7	95	11	US-11-084-554-216	Sequence 216, App
233	30	57.7	95	11	US-11-136-250-216	Sequence 216, App
234	30	57.7	112	11	US-11-177-648-8	Sequence 8, Appl1
235	30	57.7	112	11	US-11-177-648-19	Sequence 19, Appl
236	30	57.7	112	11	US-11-177-648-20	Sequence 20, Appl
237	30	57.7	112	11	US-11-177-648-21	Sequence 21, Appl
238	30	57.7	112	11	US-11-177-648-22	Sequence 22, Appl
239	30	57.7	112	11	US-11-177-648-23	Sequence 23, Appl
240	30	57.7	112	11	US-11-177-648-24	Sequence 24, Appl

241	30	57.7	112	11	US-11-177-648-25	Sequence 25, Appl	314	30	57.7	1160	9	US-10-973-115B-234	Sequence 234, App
242	30	57.7	112	11	US-11-177-648-78	Sequence 78, Appl	315	30	57.7	1160	9	US-10-137-973A-234	Sequence 234, App
243	30	57.7	131	11	US-11-087-099-9612	Sequence 9612, Ap	316	30	57.7	1160	9	US-10-152-370-234	Sequence 234, App
244	30	57.7	140	9	US-10-467-657-236	Sequence 236, App	317	30	57.7	1160	11	US-11-290-153-234	Sequence 234, App
245	30	57.7	140	9	US-10-467-657-1046	Sequence 1046, Ap	318	30	57.7	1366	9	US-10-821-234-1431	Sequence 1431, Ap
246	30	57.7	158	11	US-11-087-099-10963	Sequence 10963, A	319	30	57.7	1366	11	US-11-186-284-33	Sequence 33, Appl
247	30	57.7	178	11	US-11-087-099-4602	Sequence 4602, Ap	320	30	57.7	1466	11	US-11-186-284-33	Sequence 33, Appl
248	30	57.7	178	11	US-11-205-667-6	Sequence 6, Appl1	321	30	57.7	1613	9	US-10-055-877-145	Sequence 145, App
249	30	57.7	238	11	US-11-177-648-34	Sequence 34, Appl	322	30	57.7	1637	8	US-10-055-877-144	Sequence 144, App
250	30	57.7	238	11	US-11-177-648-35	Sequence 35, Appl	323	30	57.7	1722	8	US-10-505-928-780	Sequence 780, App
251	30	57.7	238	11	US-11-177-648-36	Sequence 36, Appl	324	29.5	56.7	268	11	US-11-079-463-5666	Sequence 5666, App
252	30	57.7	238	11	US-11-177-648-37	Sequence 37, Appl	325	29.5	56.7	276	11	US-11-096-568A-28622	Sequence 28622, A
253	30	57.7	238	11	US-11-177-648-38	Sequence 38, Appl	326	29.5	56.7	277	11	US-11-096-568A-28621	Sequence 28621, A
254	30	57.7	238	11	US-11-177-648-39	Sequence 39, Appl	327	29.5	56.7	289	11	US-11-096-568A-28620	Sequence 28620, A
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256	30	57.7	238	11	US-11-177-648-80	Sequence 80, Appl	329	29	55.8	95	9	US-10-485-788A-764	Sequence 764, App
257	30	57.7	239	11	US-11-177-648-10	Sequence 10, Appl	330	29	55.8	95	11	US-11-053-076-141	Sequence 141, App
258	30	57.7	240	11	US-11-079-463-10124	Sequence 10124, A	331	29	55.8	113	9	US-10-932-334-66	Sequence 66, Appl
259	30	57.7	248	9	US-10-512-184-32	Sequence 32, Appl	332	29	55.8	113	9	US-10-932-334-68	Sequence 68, Appl
260	30	57.7	254	9	US-10-724-598-22	Sequence 22, Appl	333	29	55.8	129	11	US-11-098-668A-10939	Sequence 10939, Ap
261	30	57.7	254	9	US-10-873-528-153	Sequence 153, App	334	29	55.8	144	11	US-11-098-668A-10938	Sequence 10938, A
262	30	57.7	296	9	US-10-000-997-38	Sequence 38, Appl	335	29	55.8	151	11	US-11-079-463-73038	Sequence 7325, Ap
263	30	57.7	306	11	US-11-096-568A-31933	Sequence 31933, A	336	29	55.8	155	11	US-11-087-099-2592	Sequence 2592, Ap
264	30	57.7	317	9	US-10-512-184-66	Sequence 69, Appl	337	29	55.8	166	11	US-11-087-099-18065	Sequence 18065, A
265	30	57.7	343	11	US-11-079-463-5711	Sequence 5711, Ap	338	29	55.8	168	11	US-11-188-298-10970	Sequence 9791, Ap
266	30	57.7	353	9	US-10-984-548-4	Sequence 4, Appl1	339	29	55.8	174	11	US-11-079-463-9791	Sequence 49, Appl
267	30	57.7	363	9	US-10-444-926-10	Sequence 10, Appl	340	29	55.8	182	11	US-11-170-653-49	Sequence 32, Appl
268	30	57.7	371	11	US-11-087-099-4260	Sequence 4260, Ap	341	29	55.8	208	11	US-11-214-613-32	Sequence 51, Appl
269	30	57.7	374	11	US-11-087-099-7407	Sequence 7407, Ap	342	29	55.8	210	11	US-11-170-653-51	Sequence 51, Appl
270	30	57.7	374	11	US-11-087-099-7413	Sequence 7413, Ap	343	29	55.8	211	11	US-11-170-653-50	Sequence 50, Appl
271	30	57.7	376	11	US-11-096-568A-20218	Sequence 20218, A	344	29	55.8	211	11	US-11-188-298-13509	Sequence 13509, A
272	30	57.7	377	11	US-11-087-099-6771	Sequence 6771, Ap	345	29	55.8	215	11	US-11-188-298-5328	Sequence 5329, Ap
273	30	57.7	382	11	US-10-444-926-8	Sequence 8, Appl1	346	29	55.8	216	11	US-11-188-298-10970	Sequence 5329, Ap
274	30	57.7	386	11	US-11-087-099-5257	Sequence 5257, Ap	347	29	55.8	227	9	US-10-467-657-54	Sequence 54, Appl
275	30	57.7	387	9	US-10-444-926-14	Sequence 14, Appl	348	29	55.8	227	9	US-10-467-657-830	Sequence 830, App
276	30	57.7	403	9	US-10-793-626-1522	Sequence 1522, Ap	349	29	55.8	227	11	US-11-104-111-5	Sequence 5, Appl
277	30	57.7	415	9	US-10-444-926-4	Sequence 4, Appl1	350	29	55.8	230	11	US-11-087-099-81417	Sequence 81417, A
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279	30	57.7	422	11	US-11-079-463-7131	Sequence 7131, Ap	352	29	55.8	233	11	US-11-054-515-995	Sequence 995, App
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282	30	57.7	450	9	US-11-188-298-19962	Sequence 19962, A	355	29	55.8	265	9	US-10-467-657-1778	Sequence 1778, Ap
283	30	57.7	461	11	US-11-188-298-7807	Sequence 7807, Ap	356	29	55.8	274	8	US-10-511-937-2546	Sequence 2546, Ap
284	30	57.7	463	11	US-11-087-099-933	Sequence 933, App	357	29	55.8	274	11	US-11-072-512-7079	Sequence 7079, Ap
285	30	57.7	473	11	US-11-098-668A-10759	Sequence 10759, A	358	29	55.8	278	9	US-10-467-657-7386	Sequence 7386, Ap
286	30	57.7	477	11	US-11-088-298-22554	Sequence 22554, A	359	29	55.8	280	11	US-11-087-099-4064	Sequence 4064, Ap
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288	30	57.7	504	11	US-11-096-568A-5855	Sequence 5855, Ap	361	29	55.8	282	11	US-10-000-997-10	Sequence 10, Appl
289	30	57.7	509	11	US-11-188-298-4863	Sequence 4863, Ap	362	29	55.8	297	11	US-11-108-163B-18	Sequence 18, Appl
290	30	57.7	525	11	US-11-096-568A-5854	Sequence 5854, Ap	363	29	55.8	297	11	US-11-096-568A-17636	Sequence 17636, A
291	30	57.7	552	11	US-11-098-668A-10414	Sequence 10414, A	364	29	55.8	301	11	US-11-096-568A-6700	Sequence 6700, Ap
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293	30	57.7	553	11	US-11-040-218-21	Sequence 21, Appl	366	29	55.8	312	11	US-11-188-298-11295	Sequence 11295, A
294	30	57.7	623	11	US-11-188-298-3771	Sequence 3371, Ap	367	29	55.8	312	11	US-11-188-298-12460	Sequence 22460, A
295	30	57.7	636	9	US-10-784-004-428	Sequence 428, App	368	29	55.8	317	11	US-11-188-298-16366	Sequence 16366, A
296	30	57.7	645	9	US-10-821-234-1409	Sequence 1409, Ap	369	29	55.8	318	11	US-11-188-298-9367	Sequence 9367, Ap
297	30	57.7	678	11	US-11-045-004-524	Sequence 524, App	370	29	55.8	318	11	US-11-096-568A-11428	Sequence 11428, A
298	30	57.7	682	11	US-11-039-756-2	Sequence 2, Appl1	371	29	55.8	320	11	US-11-188-298-11295	Sequence 11295, A
299	30	57.7	701	9	US-10-517-939-6	Sequence 6, Appl1	372	29	55.8	321	11	US-11-108-163B-17	Sequence 17, Appl
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301	30	57.7	850	9	US-10-455-772-1074	Sequence 1074, Ap	374	29	55.8	323	11	US-11-096-568A-11429	Sequence 11429, A
302	30	57.7	879	9	US-10-858-730-10	Sequence 10, Appl	375	29	55.8	328	11	US-11-096-568A-11428	Sequence 11428, A
303	30	57.7	883	9	US-10-858-730-207	Sequence 207, App	376	29	55.8	329	11	US-11-096-568A-23511	Sequence 23511, A
304	30	57.7	883	11	US-11-265-288-11	Sequence 11, Appl	377	29	55.8	332	11	US-11-087-099-7205	Sequence 7205, Ap
305	30	57.7	911	9	US-10-858-730-9	Sequence 9, Appl1	378	29	55.8	332	11	US-11-087-099-2530	Sequence 2530, App
306	30	57.7	911	9	US-10-858-730-1078	Sequence 1078, Ap	379	29	55.8	333	11	US-11-188-298-22442	Sequence 22442, A
307	30	57.7	915	9	US-10-455-772-1076	Sequence 1076, Ap	380	29	55.8	334	11	US-11-096-568A-483	Sequence 483, App
308	30	57.7	920	11	US-11-072-512-2574	Sequence 2574, Ap	381	29	55.8	337	11	US-11-087-099-478	Sequence 478, App
309	30	57.7	921	9	US-10-455-772-1080	Sequence 1080, Ap	382	29	55.8	338	11	US-11-072-512-3424	Sequence 3424, Ap
310	30	57.7	934	9	US-10-858-730-8	Sequence 8, Appl1	383	29	55.8	341	11	US-11-188-298-20692	Sequence 20692, A
311	30	57.7	978	11	US-10-455-772-1072	Sequence 1072, Ap	384	29	55.8	341	11	US-11-188-298-20692	Sequence 20692, A
312	30	57.7	1072	11	US-11-079-463-8439	Sequence 8439, Ap	385	29	55.8	352	11	US-11-096-568A-23510	Sequence 23510, A
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388	29	55.8	354	11	US-11-188-298-8976	Sequence 8976, Ap	461	29	55.8	529	11	US-11-188-298-9585	Sequence 9585, Ap
389	29	55.8	355	11	US-11-188-298-12430	Sequence 12430, A	462	29	55.8	532	11	US-11-040-218-19	Sequence 19, Ap1
390	29	55.8	355	11	US-11-188-298-15448	Sequence 15448, A	463	29	55.8	543	9	US-10-821-234-1158	Sequence 1158, Ap
391	29	55.8	356	11	US-11-188-298-2966	Sequence 2966, Ap	464	29	55.8	545	11	US-11-188-298-22415	Sequence 22415, A
392	29	55.8	356	11	US-11-188-298-9048	Sequence 9048, Ap	465	29	55.8	546	11	US-11-040-218-15	Sequence 15, Ap1
393	29	55.8	356	11	US-11-188-298-11364	Sequence 11364, A	466	29	55.8	560	11	US-11-040-218-7	Sequence 7, Ap11
394	29	55.8	357	11	US-11-087-099-8457	Sequence 8457, Ap	467	29	55.8	563	11	US-11-040-218-23	Sequence 23, Ap1
395	29	55.8	357	11	US-11-087-099-8979	Sequence 8979, Ap	468	29	55.8	572	8	US-10-505-928-98	Sequence 98, Ap1
396	29	55.8	357	11	US-11-188-298-1831	Sequence 1831, Ap	469	29	55.8	572	10	US-10-793-626-2974	Sequence 2974, Ap
397	29	55.8	357	11	US-11-188-298-8317	Sequence 8317, Ap	470	29	55.8	572	10	US-11-301-554-1815	Sequence 1815, Ap
398	29	55.8	357	11	US-11-188-298-12074	Sequence 12074, A	471	29	55.8	576	9	US-10-467-657-8146	Sequence 8146, Ap
399	29	55.8	357	11	US-11-188-298-13772	Sequence 13772, A	472	29	55.8	576	11	US-11-040-218-9	Sequence 9, Ap11
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401	29	55.8	357	11	US-11-188-298-18846	Sequence 18846, A	474	29	55.8	583	11	US-11-098-686-11405	Sequence 11405, A
402	29	55.8	358	9	US-10-501-035-389	Sequence 389, App	475	29	55.8	589	11	US-11-040-218-5	Sequence 5, Ap11
403	29	55.8	360	11	US-11-087-099-4332	Sequence 4332, Ap	476	29	55.8	597	9	US-10-517-939-348	Sequence 348, App
404	29	55.8	360	11	US-11-188-298-10417	Sequence 10417, A	477	29	55.8	597	9	US-10-517-939-350	Sequence 350, App
405	29	55.8	361	11	US-11-188-298-15007	Sequence 15007, A	478	29	55.8	605	9	US-10-467-657-3946	Sequence 3946, Ap
406	29	55.8	361	11	US-11-188-298-4141	Sequence 4141, Ap	479	29	55.8	626	11	US-11-188-298-17961	Sequence 17961, A
407	29	55.8	361	11	US-11-188-298-5620	Sequence 5620, Ap	480	29	55.8	626	11	US-11-045-004-447	Sequence 447, App
408	29	55.8	361	11	US-11-188-298-6695	Sequence 6695, Ap	481	29	55.8	628	11	US-11-079-463-8053	Sequence 8053, Ap
409	29	55.8	361	11	US-11-188-298-13781	Sequence 13781, A	482	29	55.8	628	11	US-11-188-298-20220	Sequence 20220, A
410	29	55.8	361	11	US-11-188-298-14795	Sequence 14795, A	483	29	55.8	721	11	US-11-186-284-67	Sequence 67, Ap1
411	29	55.8	363	11	US-11-188-298-7492	Sequence 7492, Ap	484	29	55.8	731	11	US-11-188-298-8673	Sequence 8673, Ap
412	29	55.8	365	11	US-11-188-298-510	Sequence 510, App	485	29	55.8	737	9	US-10-501-035-254	Sequence 254, App
413	29	55.8	365	11	US-11-188-298-21010	Sequence 21010, A	486	29	55.8	763	11	US-11-072-512-2766	Sequence 2766, Ap
414	29	55.8	366	11	US-11-108-1638-20	Sequence 20, Ap1	487	29	55.8	783	9	US-10-204-639-48	Sequence 48, Ap1
415	29	55.8	367	11	US-11-188-298-998	Sequence 998, App	488	29	55.8	840	11	US-11-096-568A-30739	Sequence 30739, A
416	29	55.8	367	11	US-11-188-298-4329	Sequence 4329, App	489	29	55.8	849	11	US-11-079-463-9844	Sequence 9844, Ap
417	29	55.8	367	11	US-11-188-298-7895	Sequence 7895, Ap	490	29	55.8	892	11	US-11-079-463-9073	Sequence 9073, Ap
418	29	55.8	373	11	US-11-045-004-1588	Sequence 1588, Ap	491	29	55.8	913	11	US-11-188-298-16101	Sequence 16101, A
419	29	55.8	374	11	US-11-096-568A-3393	Sequence 3393, A	492	29	55.8	917	11	US-11-087-099-1381	Sequence 1381, Ap
420	29	55.8	377	11	US-11-087-099-8057	Sequence 8057, App	493	29	55.8	917	11	US-11-188-298-1393	Sequence 1393, Ap
421	29	55.8	382	11	US-11-012-762-52	Sequence 52, Ap1	494	29	55.8	919	11	US-11-188-298-10380	Sequence 10380, A
422	29	55.8	382	11	US-11-087-099-2595	Sequence 2595, Ap	495	29	55.8	926	11	US-11-288-493-40	Sequence 40, Ap1
423	29	55.8	383	11	US-11-087-099-968	Sequence 968, App	496	29	55.8	934	11	US-11-079-463-7679	Sequence 7679, Ap
424	29	55.8	386	11	US-11-096-568A-33392	Sequence 33392, A	497	29	55.8	983	11	US-11-087-099-7483	Sequence 7483, Ap
425	29	55.8	386	11	US-11-172-740-12282	Sequence 12282, Ap	498	29	55.8	993	9	US-10-055-877-6	Sequence 6, Ap11
426	29	55.8	388	11	US-11-096-568A-33391	Sequence 33391, A	499	29	55.8	1025	11	US-11-079-463-6369	Sequence 6369, Ap
427	29	55.8	388	11	US-11-079-463-5398	Sequence 5398, App	500	29	55.8	1086	11	US-11-142-700-10	Sequence 10, App
428	29	55.8	394	11	US-11-109-156-25	Sequence 25, Ap1	501	29	55.8	1114	9	US-10-469-469-277	Sequence 277, App
429	29	55.8	396	11	US-11-188-298-2756	Sequence 2756, Ap	502	29	55.8	1287	8	US-10-505-928-341	Sequence 341, App
430	29	55.8	403	11	US-11-096-568A-482	Sequence 482, App	503	29	55.8	1337	11	US-11-019-711-70	Sequence 70, Ap1
431	29	55.8	406	11	US-11-000-463-377	Sequence 377, App	504	29	55.8	1349	11	US-11-045-004-28	Sequence 28, App
432	29	55.8	406	11	US-11-100-463-849	Sequence 849, App	505	29	55.8	1432	9	US-10-510-386-218	Sequence 218, App
433	29	55.8	406	11	US-11-108-1638-19	Sequence 19, Ap1	506	29	55.8	1480	11	US-11-076-074-10	Sequence 10, Ap1
434	29	55.8	431	9	US-10-505-928-845	Sequence 845, App	507	29	55.8	1482	11	US-11-181-330-2	Sequence 2, Ap1
435	29	55.8	431	9	US-10-501-035-363	Sequence 363, App	508	29	55.8	1484	9	US-10-912-971-6	Sequence 6, Ap11
436	29	55.8	437	11	US-11-079-463-8067	Sequence 8067, Ap	509	29	55.8	1484	11	US-11-181-330-6	Sequence 6, Ap11
437	29	55.8	446	11	US-11-087-099-12438	Sequence 12438, A	510	29	55.8	1681	11	US-11-019-711-20	Sequence 20, Ap1
438	29	55.8	446	11	US-11-188-298-22540	Sequence 22540, A	511	29	55.8	1697	11	US-11-019-711-68	Sequence 68, Ap1
439	29	55.8	448	11	US-11-108-1638-16	Sequence 16, Ap1	512	29	55.8	1733	11	US-11-019-711-18	Sequence 18, Ap1
440	29	55.8	451	11	US-11-096-568A-481	Sequence 481, App	513	29	55.8	2399	9	US-11-052-554A-92	Sequence 92, Ap1
441	29	55.8	451	11	US-11-188-298-10132	Sequence 10132, A	514	29	55.8	3390	9	US-10-204-252-20	Sequence 20, Ap1
442	29	55.8	459	9	US-10-644-807-216	Sequence 216, App	515	29	55.8	3390	9	US-10-204-352-22	Sequence 22, Ap1
443	29	55.8	461	11	US-11-172-740-2498	Sequence 2498, Ap	516	29	55.8	4495	9	US-10-453-372-1002	Sequence 1002, Ap
444	29	55.8	467	11	US-11-087-099-984	Sequence 984, App	517	29	55.8	5636	11	US-11-065-695-20	Sequence 20, App
445	29	55.8	467	11	US-11-096-568A-11427	Sequence 11427, A	518	29	55.8	350	11	US-11-087-099-3229	Sequence 3229, Ap
446	29	55.8	468	11	US-11-188-298-17006	Sequence 17006, A	519	28.5	54.8	388	11	US-11-087-099-10248	Sequence 10248, A
447	29	55.8	471	11	US-11-087-099-9189	Sequence 9189, Ap	520	28.5	54.8	380	11	US-11-087-099-11917	Sequence 11917, A
448	29	55.8	478	9	US-10-873-528-55	Sequence 55, Ap1	521	28.5	54.8	444	11	US-11-087-099-15372	Sequence 5372, Ap
449	29	55.8	492	11	US-11-108-1638-15	Sequence 65, Ap1	522	28.5	54.8	1023	11	US-11-079-463-6368	Sequence 6368, Ap
450	29	55.8	492	11	US-11-188-298-685	Sequence 685, App	523	28.5	54.8	6	11	US-11-032-773-39	Sequence 39, Ap1
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452	29	55.8	492	11	US-11-188-298-13962	Sequence 13962, A	525	28	53.8	16	11	US-11-012-353-2	Sequence 2, Ap11
453	29	55.8	492	11	US-11-188-298-15416	Sequence 15416, A	526	28	53.8	16	11	US-11-037-199-9	Sequence 9, Ap11
454	29	55.8	492	11	US-11-188-298-22022	Sequence 22022, A	527	28	53.8	16	11	US-11-037-199-44	Sequence 44, Ap1
455	29	55.8	493	11	US-11-188-298-7186	Sequence 7186, Ap	528	28	53.8	16	11	US-11-135-843-18	Sequence 18, Ap1
456	29	55.8	497	11	US-11-188-298-18686	Sequence 18686, A	529	28	53.8	19	9	US-10-706-877-15	Sequence 15, Ap1
457	29	55.8	505	11	US-11-040-218-13	Sequence 13, Ap1	530	28	53.8	19	9	US-10-706-877-16	Sequence 16, Ap1
458	29	55.8	505	11	US-11-072-512-2553	Sequence 2553, Ap	531	28	53.8	35	11	US-11-037-199-46	Sequence 46, Ap1
459	29	55.8	522	11	US-11-072-512-2664	Sequence 2664, Ap	532	28	53.8	35	11	US-11-037-199-46	Sequence 46, Ap1

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536	28	53.8	102	11	US-11-155-843-31	Sequence 31, Appl	609	28	53.8	263	11	US-11-089-266-66	Sequence 66, Appl
537	28	53.8	102	11	US-11-155-843-32	Sequence 32, Appl	610	28	53.8	269	11	US-11-096-568A-6630	Sequence 630, Ap
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553	28	53.8	113	9	US-10-932-334-60	Sequence 60, Appl	626	28	53.8	294	11	US-11-087-099-6099	Sequence 6099, Ap
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573	28	53.8	139	11	US-11-096-568A-33479	Sequence 23479, A	646	28	53.8	326	11	US-11-087-099-6080	Sequence 6080, Ap
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587	28	53.8	195	11	US-11-188-298-15477	Sequence 23477, A	660	28	53.8	346	11	US-11-087-099-6764	Sequence 6764, Ap
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589	28	53.8	202	11	US-11-096-568A-6631	Sequence 6631, Ap	662	28	53.8	349	11	US-11-087-099-4856	Sequence 4856, Ap
590	28	53.8	213	9	US-10-517-939-230	Sequence 230, App	663	28	53.8	349	11	US-11-096-568A-4464	Sequence 4464, Ap
591	28	53.8	213	9	US-10-517-939-302	Sequence 302, App	664	28	53.8	350	11	US-11-264-096-2216	Sequence 2216, Ap
592	28	53.8	215	11	US-11-188-298-16562	Sequence 16562, A	665	28	53.8	350	11	US-11-264-096-2216	Sequence 2216, Ap
593	28	53.8	215	11	US-11-045-004-2612	Sequence 2612, Ap	666	28	53.8	353	9	US-10-506-454-1495	Sequence 1495, Ap
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596	28	53.8	219	11	US-11-155-843-177	Sequence 177, Appl	669	28	53.8	356	11	US-10-501-031-298	Sequence 298, App
597	28	53.8	225	11	US-11-024-959-309	Sequence 309, App	670	28	53.8	360	9	US-10-995-651-612	Sequence 612, App
598	28	53.8	225	11	US-11-024-959-309	Sequence 309, App	671	28	53.8	361	9	US-11-130-206-6	Sequence 6, Appl
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684	28	53.8	383	11	US-11-096-568A-27185	Sequence 27185, A	757	28	53.8	524	11	US-11-188-298-3756	Sequence 3756, Ap
685	28	53.8	385	11	US-11-207-626A-25	Sequence 25, App1	758	28	53.8	524	11	US-11-188-298-18402	Sequence 18402, A
686	28	53.8	392	11	US-11-072-512-3693	Sequence 3693, Ap	759	28	53.8	524	11	US-11-188-298-18415	Sequence 18415, A
687	28	53.8	393	11	US-11-188-298-13089	Sequence 13089, A	760	28	53.8	525	11	US-11-045-00A-1247	Sequence 1247, Ap
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691	28	53.8	399	11	US-11-096-568A-20256	Sequence 20256, A	764	28	53.8	530	11	US-11-188-298-2273	Sequence 2273, Ap
692	28	53.8	404	9	US-10-467-657-6326	Sequence 6326, Ap	765	28	53.8	530	11	US-11-188-298-2673	Sequence 2673, Ap
693	28	53.8	404	11	US-11-087-099-2344	Sequence 2344, Ap	766	28	53.8	530	11	US-11-188-298-3481	Sequence 3481, Ap
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696	28	53.8	409	11	US-11-219-282-33	Sequence 33, App1	769	28	53.8	530	11	US-11-188-298-7980	Sequence 7980, Ap
697	28	53.8	411	11	US-11-096-568A-3304	Sequence 3304, Ap	770	28	53.8	530	11	US-11-188-298-10244	Sequence 10244, A
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702	28	53.8	417	11	US-11-096-568A-27183	Sequence 27183, A	775	28	53.8	551	11	US-11-169-041-228	Sequence 228, App
703	28	53.8	418	11	US-11-186-284-187	Sequence 187, App	776	28	53.8	554	11	US-11-087-099-3239	Sequence 3239, Ap
704	28	53.8	418	11	US-11-096-568A-22733	Sequence 22733, A	777	28	53.8	555	11	US-11-129-861-47	Sequence 47, App1
705	28	53.8	422	11	US-11-079-463-9260	Sequence 9260, Ap	778	28	53.8	553	9	US-10-370-959-136	Sequence 136, App
706	28	53.8	423	11	US-11-087-099-570	Sequence 570, App	779	28	53.8	553	9	US-10-878-556A-135	Sequence 135, App
707	28	53.8	423	11	US-11-087-099-2484	Sequence 2484, Ap	780	28	53.8	553	11	US-11-072-184-6	Sequence 241, App
708	28	53.8	423	11	US-11-087-099-12321	Sequence 12321, A	781	28	53.8	559	9	US-10-512-184-66	Sequence 66, App1
709	28	53.8	424	11	US-11-087-099-5566	Sequence 5566, Ap	782	28	53.8	553	11	US-11-188-298-55681	Sequence 5681, Ap
710	28	53.8	424	11	US-11-188-298-4780	Sequence 4780, Ap	783	28	53.8	550	11	US-11-072-512-3415	Sequence 3415, Ap
711	28	53.8	424	11	US-11-188-298-16105	Sequence 16105, A	784	28	53.8	618	9	US-10-512-184-48	Sequence 48, App1
712	28	53.8	425	9	US-10-995-561-616	Sequence 616, App	785	28	53.8	629	11	US-11-094-586-11	Sequence 11, App1
713	28	53.8	425	11	US-11-087-099-1247	Sequence 1247, Ap	786	28	53.8	630	11	US-11-096-568A-29050	Sequence 29050, A
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715	28	53.8	427	11	US-11-110-851-66	Sequence 66, App1	788	28	53.8	638	11	US-11-052-554A-116	Sequence 116, App
716	28	53.8	428	11	US-11-188-298-22499	Sequence 22499, A	789	28	53.8	668	9	US-10-995-561-619	Sequence 619, App
717	28	53.8	436	11	US-11-096-568A-8103	Sequence 8103, Ap	790	28	53.8	668	11	US-11-113-424-12	Sequence 12, App1
718	28	53.8	437	11	US-11-079-463-9492	Sequence 9492, Ap	791	28	53.8	669	9	US-10-203-486-12	Sequence 12, App1
719	28	53.8	438	11	US-11-172-740-2497	Sequence 2497, Ap	792	28	53.8	660	11	US-11-096-568A-29049	Sequence 29049, A
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721	28	53.8	439	11	US-11-087-099-2955	Sequence 2955, Ap	794	28	53.8	663	9	US-10-821-234-1314	Sequence 1314, Ap
722	28	53.8	439	11	US-11-172-740-2496	Sequence 2496, Ap	795	28	53.8	663	11	US-11-081-566-2	Sequence 2, App1
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724	28	53.8	442	11	US-11-188-298-16028	Sequence 16028, A	797	28	53.8	663	11	US-11-186-284-201	Sequence 201, App
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726	28	53.8	445	11	US-11-172-740-2494	Sequence 2494, Ap	799	28	53.8	668	11	US-11-113-424-45	Sequence 45, App1
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736	28	53.8	480	11	US-11-188-298-1665	Sequence 1665, Ap	809	28	53.8	669	11	US-11-040-218-31	Sequence 31, App1
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741	28	53.8	494	11	US-11-079-463-7194	Sequence 7194, Ap	814	28	53.8	700	11	US-11-130-206-4	Sequence 4, App1
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748	28	53.8	509	11	US-11-096-568A-20254	Sequence 20254, A	821	28	53.8	718	9	US-10-467-657-628-25	Sequence 25, App1
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832	28	53.8	742	11	US-11-072-175-176	Sequence 176, App	905	27	51.9	21	9	US-10-895-064-2200	Sequence 2200, App
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878	28	53.8	1402	11	US-11-096-568A-30858	Sequence 2, App1	951	27	51.9	197	11	US-11-087-029-9661	Sequence 9661, App
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883	28	53.8	1706	9	US-10-915-002-239	Sequence 176, App	956	27	51.9	206	11	US-11-188-298-18342	Sequence 18342, A
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890	28	53.8	1938	11	US-11-188-298-4370	Sequence 173, App	963	27	51.9	213	9	US-11-096-568A-22424	Sequence 22424, A
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892	28	53.8	2233	9	US-10-873-528-2	Sequence 2, App1	965	27	51.9	220	9	US-10-506-454-614	Sequence 20358, A
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PRIOR APPLICATION NUMBER: US 60/415,929
PRIOR FILING DATE: 2002-10-03
NUMBER OF SEQ ID NOS: 65
SOFTWARE: PatentIn version 3.1
SEQ ID NO 1
LENGTH: 248
TYPE: PRT
ORGANISM: Human papillomavirus type 16
US-10-530-253-1

Query Match 100.0%; Score 52; DB 9; Length 248;
Best Local Similarity 100.0%; Pred. No. 0.031;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 IYRDGNPY 9
DB 52 IYRDGNPY 60

RESULT 5
US-10-530-253-3
Sequence 3, Application US/10530253
Publication No. US20060014926A1
GENERAL INFORMATION:
APPLICANT: Cassecci, Maria C.
APPLICANT: Smith, Larry
APPLICANT: Jeffrey K. Pullen
TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
FILE REFERENCE: 00630/100M137-US2
CURRENT APPLICATION NUMBER: US/10/530,253
CURRENT FILING DATE: 2005-04-04
PRIOR APPLICATION NUMBER: PCT/US2003/031726
PRIOR FILING DATE: 2003-10-02
PRIOR APPLICATION NUMBER: US 60/415,929
PRIOR FILING DATE: 2002-10-03
NUMBER OF SEQ ID NOS: 65
SOFTWARE: PatentIn version 3.1
SEQ ID NO 3
LENGTH: 248
TYPE: PRT
ORGANISM: Human papillomavirus type 16
US-10-530-253-3

Query Match 100.0%; Score 52; DB 9; Length 248;
Best Local Similarity 100.0%; Pred. No. 0.031;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 IYRDGNPY 9
DB 52 IYRDGNPY 60

RESULT 6
US-10-530-253-5
Sequence 5, Application US/10530253
Publication No. US20060014926A1
GENERAL INFORMATION:
APPLICANT: Cassecci, Maria C.
APPLICANT: Smith, Larry
APPLICANT: Jeffrey K. Pullen
TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
FILE REFERENCE: 00630/100M137-US2
CURRENT APPLICATION NUMBER: US/10/530,253
CURRENT FILING DATE: 2005-04-04
PRIOR APPLICATION NUMBER: PCT/US2003/031726
PRIOR FILING DATE: 2003-10-02
PRIOR APPLICATION NUMBER: US 60/415,929
PRIOR FILING DATE: 2002-10-03
NUMBER OF SEQ ID NOS: 65
SOFTWARE: PatentIn version 3.1
SEQ ID NO 5

LENGTH: 248
TYPE: PRT
ORGANISM: Human papillomavirus type 16
US-10-530-253-5

Query Match 100.0%; Score 52; DB 9; Length 248;
Best Local Similarity 100.0%; Pred. No. 0.031;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 IYRDGNPY 9
DB 52 IYRDGNPY 60

RESULT 7
US-10-530-253-7
Sequence 7, Application US/10530253
Publication No. US20060014926A1
GENERAL INFORMATION:
APPLICANT: Cassecci, Maria C.
APPLICANT: Smith, Larry
APPLICANT: Jeffrey K. Pullen
TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
FILE REFERENCE: 00630/100M137-US2
CURRENT APPLICATION NUMBER: US/10/530,253
CURRENT FILING DATE: 2005-04-04
PRIOR APPLICATION NUMBER: PCT/US2003/031726
PRIOR FILING DATE: 2003-10-02
PRIOR APPLICATION NUMBER: US 60/415,929
PRIOR FILING DATE: 2002-10-03
NUMBER OF SEQ ID NOS: 65
SOFTWARE: PatentIn version 3.1
SEQ ID NO 7
LENGTH: 248
TYPE: PRT
ORGANISM: Human papillomavirus type 16
US-10-530-253-7

Query Match 100.0%; Score 52; DB 9; Length 248;
Best Local Similarity 100.0%; Pred. No. 0.031;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 IYRDGNPY 9
DB 149 IYRDGNPY 157

RESULT 8
US-10-530-253-9
Sequence 9, Application US/10530253
Publication No. US20060014926A1
GENERAL INFORMATION:
APPLICANT: Cassecci, Maria C.
APPLICANT: Smith, Larry
APPLICANT: Jeffrey K. Pullen
TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
FILE REFERENCE: 00630/100M137-US2
CURRENT APPLICATION NUMBER: US/10/530,253
CURRENT FILING DATE: 2005-04-04
PRIOR APPLICATION NUMBER: PCT/US2003/031726
PRIOR FILING DATE: 2003-10-02
PRIOR APPLICATION NUMBER: US 60/415,929
PRIOR FILING DATE: 2002-10-03
NUMBER OF SEQ ID NOS: 65
SOFTWARE: PatentIn version 3.1
SEQ ID NO 9
LENGTH: 248
TYPE: PRT
ORGANISM: Human papillomavirus type 16
US-10-530-253-9

Query Match 100.0%; Score 52; DB 9; Length 248;
Best Local Similarity 100.0%; Pred. No. 0.031;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 IYVRDGNPY 9
|||
Db 149 IYVRDGNPY 157

RESULT 9
US-10-530-253-11
; Sequence 11, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Cassecci, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530, 253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 11
; LENGTH: 248
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-10-530-253-11

Query Match 100.0%; Score 52; DB 9; Length 248;
Best Local Similarity 100.0%; Pred. No. 0.031;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 IYVRDGNPY 9
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Db 149 IYVRDGNPY 157

RESULT 10
US-11-192-923A-2
; Sequence 2, Application US/11192923A
; Publication No. US20060018928A1
; GENERAL INFORMATION:
; APPLICANT: PANG, XIAOMU
; TITLE OF INVENTION: VIRUS-LIKE PARTICLE CONTAINING A DENGUE VIRUS
; FILE REFERENCE: 11620-003
; CURRENT APPLICATION NUMBER: US/11/192, 923A
; CURRENT FILING DATE: 2005-07-29
; PRIOR APPLICATION NUMBER: CN 03115272.4
; PRIOR FILING DATE: 2003-01-30
; PRIOR APPLICATION NUMBER: CN 03115273.2
; PRIOR FILING DATE: 2003-01-30
; NUMBER OF SEQ ID NOS: 45
; SOFTWARE: PatentIn Ver. 3.3
; SEQ ID NO 2
; LENGTH: 256
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-11-192-923A-2

Query Match 100.0%; Score 52; DB 11; Length 256;

Best Local Similarity 100.0%; Pred. No. 0.032;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 IYVRDGNPY 9
|||
Db 157 IYVRDGNPY 165

RESULT 11
US-10-530-061-1698

; Sequence 1698, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.033US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530, 061
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1698
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-1698

Query Match 92.3%; Score 48; DB 9; Length 15;
Best Local Similarity 88.9%; Pred. No. 0.0086;
Matches 8; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 IYVRDGNPY 9
|||
Db 2 IYVRDGNPY 0

RESULT 12
US-10-530-061-1710
; Sequence 1710, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.033US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530, 061
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1710
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-1710

Query Match 92.3%; Score 48; DB 9; Length 15;

Best Local Similarity 88.9%; Pred. No. 0.0086;
Matches 8; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 IYVRDGNPY 9
|||
Db 3 IYVRDGNPY 11

RESULT 13

US-10-530-253-24
 ; Sequence 24, Application US/10530253
 ; Publication No. US20060014926A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Casasetti, Maria C.
 ; APPLICANT: Smith, Larry
 ; APPLICANT: Jeffrey K. Pullen
 ; APPLICANT: Susan P. McElhinney
 ; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
 ; FILE REFERENCE: 00630/100M137-US2
 ; CURRENT FILING DATE: 2005-04-04
 ; PRIOR FILING DATE: 2003-10-02
 ; PRIOR APPLICATION NUMBER: PCT/US2003/031726
 ; PRIOR FILING DATE: 2002-10-03
 ; NUMBER OF SEQ ID NOS: 65
 ; SOFTWARE: PatentIn version 3.1
 ; SEQ ID NO 24
 ; LENGTH: 149
 ; TYPE: PRT
 ; ORGANISM: Human papillomavirus type 58
 US-10-530-253-24

Query Match 92.3%; Score 48; DB 9; Length 149;
 Best Local Similarity 88.9%; Pred. No. 0.099;
 Matches 8; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 IYRDGNPY 9
 |||||
 DB 52 IYRDGNPF 60

RESULT 14
 US-10-530-061-1687
 ; Sequence 1687, Application US/10530061
 ; Publication No. US20060079453A1
 ; GENERAL INFORMATION:
 ; APPLICANT: SIDNEY, JOHN
 ; APPLICANT: SETHWOOD, SCOTT
 ; APPLICANT: SETTE, ALESSANDRO
 ; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
 ; FILE REFERENCE: 2060.033US02/EKS/M-M
 ; CURRENT FILING DATE: 2005-04-04
 ; PRIOR FILING DATE: 2003-10-03
 ; PRIOR APPLICATION NUMBER: PCT/US03/31308
 ; PRIOR FILING DATE: 2002-10-03
 ; PRIOR APPLICATION NUMBER: 60/416,207
 ; PRIOR FILING DATE: 2002-10-03
 ; PRIOR APPLICATION NUMBER: 60/417,269
 ; PRIOR FILING DATE: 2002-10-08
 ; NUMBER OF SEQ ID NOS: 2503
 ; SOFTWARE: PatentIn version 3.3
 ; SEQ ID NO 1687
 ; LENGTH: 15
 ; TYPE: PRT
 ; ORGANISM: Human papillomavirus
 US-10-530-061-1687

Query Match 88.5%; Score 46; DB 9; Length 15;
 Best Local Similarity 88.9%; Pred. No. 0.02;
 Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 IYRDGNPY 9
 |||||
 DB 2 IYRDGNPY 10

RESULT 15
 US-10-530-253-22
 ; Sequence 22, Application US/10530253
 ; Publication No. US20060014926A1
 ; GENERAL INFORMATION:

APPLICANT: Casasetti, Maria C.
 APPLICANT: Smith, Larry
 APPLICANT: Jeffrey K. Pullen
 APPLICANT: Susan P. McElhinney
 TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
 FILE REFERENCE: 00630/100M137-US2
 CURRENT APPLICATION NUMBER: US/10/530,253
 CURRENT FILING DATE: 2005-04-04
 PRIOR APPLICATION NUMBER: PCT/US2003/031726
 PRIOR FILING DATE: 2003-10-02
 PRIOR APPLICATION NUMBER: 60/415,929
 PRIOR FILING DATE: 2002-10-03
 NUMBER OF SEQ ID NOS: 65
 SOFTWARE: PatentIn version 3.1
 SEQ ID NO 22
 LENGTH: 148
 TYPE: PRT
 ORGANISM: Human papillomavirus type 52
 US-10-530-253-22

Query Match 88.5%; Score 46; DB 9; Length 148;
 Best Local Similarity 88.9%; Pred. No. 0.23;
 Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 IYRDGNPY 9
 |||||
 DB 52 IYRDGNPY 60

RESULT 16
 US-10-530-253-21
 ; Sequence 21, Application US/10530253
 ; Publication No. US20060014926A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Casasetti, Maria C.
 ; APPLICANT: Smith, Larry
 ; APPLICANT: Jeffrey K. Pullen
 ; APPLICANT: Susan P. McElhinney
 ; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
 ; FILE REFERENCE: 00630/100M137-US2
 ; CURRENT FILING DATE: 2005-04-04
 ; PRIOR FILING DATE: 2003-10-02
 ; PRIOR APPLICATION NUMBER: PCT/US2003/031726
 ; PRIOR FILING DATE: 2002-10-03
 ; PRIOR APPLICATION NUMBER: 60/415,929
 ; PRIOR FILING DATE: 2002-10-03
 ; NUMBER OF SEQ ID NOS: 65
 ; SOFTWARE: PatentIn version 3.1
 ; SEQ ID NO 21
 ; LENGTH: 151
 ; TYPE: PRT
 ; ORGANISM: Human papillomavirus type 51
 US-10-530-253-21

Query Match 88.5%; Score 46; DB 9; Length 151;
 Best Local Similarity 88.9%; Pred. No. 0.23;
 Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 IYRDGNPY 9
 |||||
 DB 52 IYRDGNPY 60

RESULT 17
 US-10-530-061-1677
 ; Sequence 1677, Application US/10530061
 ; Publication No. US20060079453A1
 ; GENERAL INFORMATION:
 ; APPLICANT: SIDNEY, JOHN
 ; APPLICANT: SETHWOOD, SCOTT
 ; APPLICANT: SETTE, ALESSANDRO
 ; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
 ; FILE REFERENCE: 2060.033US02/EKS/M-M

;; CURRENT APPLICATION NUMBER: US/10/530,061
;; PRIOR FILING DATE: 2005-04-04
;; PRIOR APPLICATION NUMBER: PCT/US03/31308
;; PRIOR FILING DATE: 2003-10-03
;; PRIOR APPLICATION NUMBER: 60/416,207
;; PRIOR FILING DATE: 2002-10-03
;; PRIOR APPLICATION NUMBER: 60/417,269
;; PRIOR FILING DATE: 2002-10-08
;; NUMBER OF SEQ ID NOS: 2503
;; SOFTWARE: PatentIn version 3.3
;; SEQ ID NO 1677
;; LENGTH: 15
;; TYPE: PRT
;; ORGANISM: Human papillomavirus
US-10-530-061-1677

Query Match 82.7%; Score 43; DB 9; Length 15;
Best Local Similarity 66.7%; Pred. No. 0.071;
Matches 6; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

Qy 1 IYRDGNPY 9
Db 2 VYREGNPF 10

RESULT 18
US-10-530-253-17
;; Sequence 17, Application US/10530253
;; Publication No. US20060014926A1
;; GENERAL INFORMATION:
;; APPLICANT: Casasetti, Maria C.
;; APPLICANT: Jeffrey K. Pullen
;; APPLICANT: Susan P. McElhinney
;; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;; FILE REFERENCE: 00630/100M137-US2
;; CURRENT APPLICATION NUMBER: US/10/530,253
;; PRIOR FILING DATE: 2005-04-04
;; PRIOR APPLICATION NUMBER: PCT/US2003/031726
;; PRIOR FILING DATE: 2003-10-02
;; PRIOR APPLICATION NUMBER: US 60/415,929
;; PRIOR FILING DATE: 2002-10-03
;; NUMBER OF SEQ ID NOS: 65
;; SOFTWARE: PatentIn version 3.1
;; SEQ ID NO 17
;; LENGTH: 149
;; TYPE: PRT
;; ORGANISM: Human papillomavirus type 33
US-10-530-253-17

Query Match 82.7%; Score 43; DB 9; Length 149;
Best Local Similarity 66.7%; Pred. No. 0.82;
Matches 6; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

Qy 1 IYRDGNPY 9
Db 52 VYREGNPF 60

RESULT 19
US-10-530-253-18
;; Sequence 18, Application US/10530253
;; Publication No. US20060014926A1
;; GENERAL INFORMATION:
;; APPLICANT: Casasetti, Maria C.
;; APPLICANT: Smith, Larry
;; APPLICANT: Jeffrey K. Pullen
;; APPLICANT: Susan P. McElhinney
;; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;; FILE REFERENCE: 00630/100M137-US2
;; CURRENT APPLICATION NUMBER: US/10/530,253
;; CURRENT FILING DATE: 2005-04-04
;; PRIOR APPLICATION NUMBER: PCT/US2003/031726

;; PRIOR FILING DATE: 2003-10-02
;; PRIOR APPLICATION NUMBER: US 60/415,929
;; PRIOR FILING DATE: 2002-10-03
;; NUMBER OF SEQ ID NOS: 65
;; SOFTWARE: PatentIn version 3.1
;; SEQ ID NO 18
;; LENGTH: 149
;; TYPE: PRT
;; ORGANISM: Human papillomavirus type 35
US-10-530-253-18

Query Match 80.8%; Score 42; DB 9; Length 149;
Best Local Similarity 77.8%; Pred. No. 1.3;
Matches 7; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 IYRDGNPY 9
Db 52 IYREGQPY 60

RESULT 20
US-10-530-061-848
;; Sequence 848, Application US/10530061
;; Publication No. US20060079453A1
;; GENERAL INFORMATION:
;; APPLICANT: SIDNEY, JOHN
;; APPLICANT: SOUTHWOOD, SCOTT
;; APPLICANT: SETTE, ALESSANDRO
;; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
;; FILE REFERENCE: 2060.033US02/EKS/M-M
;; CURRENT APPLICATION NUMBER: US/10/530,061
;; PRIOR FILING DATE: 2005-04-04
;; PRIOR APPLICATION NUMBER: PCT/US03/31308
;; PRIOR FILING DATE: 2003-10-03
;; PRIOR APPLICATION NUMBER: 60/416,207
;; PRIOR FILING DATE: 2002-10-03
;; PRIOR APPLICATION NUMBER: 60/417,269
;; PRIOR FILING DATE: 2002-10-08
;; NUMBER OF SEQ ID NOS: 2503
;; SOFTWARE: PatentIn version 3.3
;; SEQ ID NO 848
;; LENGTH: 8
;; TYPE: PRT
;; ORGANISM: Human papillomavirus
US-10-530-061-848

Query Match 76.9%; Score 40; DB 9; Length 8;
Best Local Similarity 75.0%; Pred. No. 1.9e+05;
Matches 6; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 2 VYRDGNPY 9
Db 1 VYREGNPF 8

RESULT 21
US-10-530-061-793
;; Sequence 793, Application US/10530061
;; Publication No. US20060079453A1
;; GENERAL INFORMATION:
;; APPLICANT: SIDNEY, JOHN
;; APPLICANT: SOUTHWOOD, SCOTT
;; APPLICANT: SETTE, ALESSANDRO
;; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
;; FILE REFERENCE: 2060.033US02/EKS/M-M
;; CURRENT APPLICATION NUMBER: US/10/530,061
;; PRIOR FILING DATE: 2005-04-04
;; PRIOR APPLICATION NUMBER: PCT/US03/31308
;; PRIOR FILING DATE: 2003-10-03
;; PRIOR APPLICATION NUMBER: 60/416,207
;; PRIOR FILING DATE: 2002-10-03
;; PRIOR APPLICATION NUMBER: 60/417,269
;; PRIOR FILING DATE: 2002-10-08

NUMBER OF SEQ ID NOS: 2503
SOFTWARE: Patentin version 3.3
SEQ ID NO 793
LENGTH: 10
TYPE: PRT
ORGANISM: Human papillomavirus
US-10-530-061-793

Query Match 76.9%; Score 40; DB 9; Length 10;
Best Local Similarity 75.0%; Pred. No. 0.17;
Matches 6; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 2 VYRDGNPY 9
|||:||||
Db 1 VYRDGNPF 8

RESULT 22
US-10-530-061-1697
Sequence 1697, Application US/10530061
Publication No. US20060079453A1
GENERAL INFORMATION:
APPLICANT: SIDNEY, JOHN
APPLICANT: SOUTHWOOD, SCOTT
APPLICANT: SETTE, ALESSANDRO
TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
FILE REFERENCE: 2060.03US02/EKS/M-M
CURRENT APPLICATION NUMBER: US/10/530,061
CURRENT FILING DATE: 2005-04-04
PRIOR APPLICATION NUMBER: PCT/US03/31308
PRIOR FILING DATE: 2003-10-03
PRIOR APPLICATION NUMBER: 60/416,207
PRIOR FILING DATE: 2002-10-03
PRIOR APPLICATION NUMBER: 60/417,269
PRIOR FILING DATE: 2002-10-08
NUMBER OF SEQ ID NOS: 2503
SOFTWARE: Patentin version 3.3
SEQ ID NO 1697
LENGTH: 15
TYPE: PRT
ORGANISM: Human papillomavirus
US-10-530-061-1697

Query Match 73.1%; Score 38; DB 9; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.59;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 IVYRDGN 7
|||||
Db 9 IVYRDGN 15

RESULT 23
US-10-530-253-19
Sequence 19, Application US/10530253
Publication No. US20060014926A1
GENERAL INFORMATION:
APPLICANT: Cassetti, Maria C.
APPLICANT: Smith, Larry
APPLICANT: Jeffrey K. Pullen
APPLICANT: Susan P. McElhinney
TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
FILE REFERENCE: 00630/100M137-US2
CURRENT APPLICATION NUMBER: US/10/530,253
CURRENT FILING DATE: 2005-04-04
PRIOR APPLICATION NUMBER: PCT/US2003/031726
PRIOR FILING DATE: 2003-10-02
PRIOR APPLICATION NUMBER: US 60/415,929
PRIOR FILING DATE: 2002-10-03
NUMBER OF SEQ ID NOS: 65
SOFTWARE: Patentin version 3.1
SEQ ID NO 19
LENGTH: 158

TYPE: PRT
ORGANISM: Human papillomavirus type 39
US-10-530-253-19

Query Match 73.1%; Score 38; DB 9; Length 158;
Best Local Similarity 75.0%; Pred. No. 7.3;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 IVYRDGNP 8
|||||
Db 54 VYRDGNP 61

RESULT 24
US-10-530-253-26
Sequence 26, Application US/10530253
Publication No. US20060014926A1
GENERAL INFORMATION:
APPLICANT: Cassetti, Maria C.
APPLICANT: Smith, Larry
APPLICANT: Jeffrey K. Pullen
APPLICANT: Susan P. McElhinney
TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
FILE REFERENCE: 00630/100M137-US2
CURRENT APPLICATION NUMBER: US/10/530,253
CURRENT FILING DATE: 2005-04-04
PRIOR APPLICATION NUMBER: PCT/US2003/031726
PRIOR FILING DATE: 2003-10-02
PRIOR APPLICATION NUMBER: US 60/415,929
PRIOR FILING DATE: 2002-10-03
NUMBER OF SEQ ID NOS: 65
SOFTWARE: Patentin version 3.1
SEQ ID NO 26
LENGTH: 158
TYPE: PRT
ORGANISM: Human papillomavirus type 68
US-10-530-253-26

Query Match 73.1%; Score 38; DB 9; Length 158;
Best Local Similarity 66.7%; Pred. No. 7.3;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 IVYRDGNPY 9
|||||
Db 54 VYRDGNPY 62

RESULT 25
US-11-079-463-7530
Sequence 7530, Application US/11079463
Publication No. US20060073161A1
GENERAL INFORMATION:
APPLICANT: Gary L. Breton
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO BACTERIOIDES FR
FILE REFERENCE: PATH00-03DIV2
CURRENT APPLICATION NUMBER: US/11/079,463
CURRENT FILING DATE: 2005-03-14
PRIOR APPLICATION NUMBER: US 60/128,705
PRIOR FILING DATE: 1999-04-09
PRIOR APPLICATION NUMBER: US 09/540,209
PRIOR FILING DATE: 2000-04-04
NUMBER OF SEQ ID NOS: 10444
SEQ ID NO 7530
LENGTH: 707
TYPE: PRT
ORGANISM: B.fragilis
US-11-079-463-7530

Query Match 73.1%; Score 38; DB 11; Length 707;
Best Local Similarity 75.0%; Pred. No. 36;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 2 VYRDGNPY 9
||:||||
Db 407 VYMGNPY 414

RESULT 26

US-10-530-253-25
; Sequence 25, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Casasetti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530, 253
; PRIOR FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 25
; LENGTH: 160
; TYPE: PRT
; ORGANISM: Human papillomavirus type 59
US-10-530-253-25

Query Match 71.2%; Score 37; DB 9; Length 160;
Best Local Similarity 77.8%; Pred. No. 11;
Matches 7; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 IVYRDGNPY 9
|||||
Db 54 IVYRDCTPY 62

RESULT 27

US-11-098-686-11153
; Sequence 11153, Application US/11098686
; Publication No. US20060024696A1
; GENERAL INFORMATION:
; APPLICANT: Kapur, Vivek and Gebhart, Connie J.
; TITLE OF INVENTION: NUCLEIC ACID AND POLYPEPTIDE SEQUENCES
; FILE REFERENCE: 09531-128001
; CURRENT APPLICATION NUMBER: US/11/098,686
; PRIOR FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31318
; PRIOR FILING DATE: 2003-10-01
; PRIOR APPLICATION NUMBER: US 60/416,395
; PRIOR FILING DATE: 2002-10-04
; NUMBER OF SEQ ID NOS: 11433
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 11153
; LENGTH: 363
; TYPE: PRT
; ORGANISM: Lawsonia intracellularis
US-11-098-686-11153

Query Match 71.2%; Score 37; DB 11; Length 363;
Best Local Similarity 85.7%; Pred. No. 27;
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 2 VYRDGNP 8
||:||||
Db 252 VYQDGNP 258

RESULT 28

US-11-224-623-15

; Sequence 15, Application US/11224623
; Publication No. US2006003906A1
; GENERAL INFORMATION:
; APPLICANT: ELI LILLY AND COMPANY and WASHINGTON UNIVERSITY
; TITLE OF INVENTION: Humanized Antibodies that Sequester Amyloid Beta Peptide
; FILE REFERENCE: 8792/293
; CURRENT APPLICATION NUMBER: US/11/224,623
; PRIOR FILING DATE: 2005-09-12
; PRIOR APPLICATION NUMBER: US/10/226,435
; PRIOR FILING DATE: 2002-11-13
; PRIOR APPLICATION NUMBER: PCT/US01/06191
; PRIOR FILING DATE: 2001-02-26
; PRIOR APPLICATION NUMBER: 60/184,601
; PRIOR FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: 60/254,465
; PRIOR FILING DATE: 2000-12-08
; PRIOR APPLICATION NUMBER: 60/254,498
; PRIOR FILING DATE: 2000-12-08
; NUMBER OF SEQ ID NOS: 16
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 15
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Humanized antibodies
US-11-224-623-15

Query Match 69.2%; Score 36; DB 11; Length 16;
Best Local Similarity 66.7%; Pred. No. 1.5;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Qy 1 IVYRDGNPY 9
|||||
Db 6 LVYSDGNAY 14

RESULT 29

US-11-239-308-45
; Sequence 45, Application US/11239308
; Publication No. US2006008883A1
; GENERAL INFORMATION:
; APPLICANT: Smider, Vaughn
; APPLICANT: Lattick, James W.
; APPLICANT: Integritgen, Inc.
; TITLE OF INVENTION: Recombinant Catalytic Polypeptides and Their Uses
; FILE REFERENCE: 021216-000310US
; CURRENT APPLICATION NUMBER: US/11/239,308
; PRIOR FILING DATE: 2005-09-28
; PRIOR APPLICATION NUMBER: US/10/683,733
; PRIOR FILING DATE: 2003-10-09
; PRIOR APPLICATION NUMBER: US 60/417,979
; PRIOR FILING DATE: 2002-10-09
; NUMBER OF SEQ ID NOS: 62
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 45
; LENGTH: 100
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-239-308-45

Query Match 69.2%; Score 36; DB 10; Length 100;
Best Local Similarity 66.7%; Pred. No. 10;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Qy 1 IVYRDGNPY 9
|||||
Db 29 LVYSDGNAY 37

RESULT 30

US-11-239-308-46
; Sequence 46, Application US/11239308

```
Publication No. US2006008883A1
GENERAL INFORMATION:
APPLICANT: Smider, Vaughn
APPLICANT: Larrick, James W.
APPLICANT: Integritgen, Inc.
TITLE OF INVENTION: Recombinant Catalytic Polypeptides and Their Uses
FILE REFERENCE: 021216-000310US
CURRENT APPLICATION NUMBER: US/11/239,308
CURRENT FILING DATE: 2005-09-28
PRIOR APPLICATION NUMBER: US/10/683,733
PRIOR FILING DATE: 2003-10-09
PRIOR APPLICATION NUMBER: US 60/417,979
PRIOR FILING DATE: 2002-10-09
NUMBER OF SEQ ID NOS: 62
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 46
LENGTH: 100
TYPE: PRT
ORGANISM: Homo sapiens
US-11-239-308-46
```

```
Query Match          69.2%; Score 36; DB 10; Length 100;
Best Local Similarity 66.7%; Pred. No. 10;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;
```

```
QY 1 IYVRDGNPY 9
: || || |
DB 29 LVYSDGNTY 37
```

```
RESULT 31
US-11-054-669-75
Sequence 75, Application US/11054669
Publication No. US20050261480A1
```

```
GENERAL INFORMATION:
APPLICANT: Foote, Jefferson
TITLE OF INVENTION: SUPER HUMANIZED ANTIBODIES
FILE REFERENCE: 30219/US/3
CURRENT APPLICATION NUMBER: US/11/054,669
CURRENT FILING DATE: 2005-02-08
PRIOR APPLICATION NUMBER: US 10/194,975
PRIOR FILING DATE: 2002-07-12
PRIOR APPLICATION NUMBER: US 60/305,111
PRIOR FILING DATE: 2001-07-12
NUMBER OF SEQ ID NOS: 124
SOFTWARE: PatentIn version 3.3
SEQ ID NO 75
LENGTH: 100
TYPE: PRT
ORGANISM: Homo sapiens
US-11-054-669-75
```

```
Query Match          69.2%; Score 36; DB 11; Length 100;
```

```
Best Local Similarity 66.7%; Pred. No. 10;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;
```

```
QY 1 IYVRDGNPY 9
: || || |
DB 29 LVYSDGNTY 37
```

```
RESULT 32
US-11-054-669-76
```

```
Sequence 76, Application US/11054669
Publication No. US20050261480A1
```

```
GENERAL INFORMATION:
APPLICANT: Foote, Jefferson
TITLE OF INVENTION: SUPER HUMANIZED ANTIBODIES
FILE REFERENCE: 30219/US/3
CURRENT APPLICATION NUMBER: US/11/054,669
CURRENT FILING DATE: 2005-02-08
PRIOR APPLICATION NUMBER: US 10/194,975
PRIOR FILING DATE: 2002-07-12
```

```
PRIOR APPLICATION NUMBER: US 60/305,111
PRIOR FILING DATE: 2001-07-12
NUMBER OF SEQ ID NOS: 124
SOFTWARE: PatentIn version 3.3
SEQ ID NO 76
LENGTH: 100
TYPE: PRT
ORGANISM: Homo sapiens
US-11-054-669-76
```

```
Query Match          69.2%; Score 36; DB 11; Length 100;
Best Local Similarity 66.7%; Pred. No. 10;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;
```

```
QY 1 IYVRDGNPY 9
: || || |
DB 29 LVYSDGNTY 37
```

```
RESULT 33
US-11-084-554-103
```

```
Sequence 103, Application US/11084554
Publication No. US20050260679A1
GENERAL INFORMATION:
APPLICANT: Kellermann, Sifrid-Al
APPLICANT: Green, Larry L.
APPLICANT: Korver, Wouter
TITLE OF INVENTION: REDUCING THE RISK OF HUMAN ANTI-HUMAN
FILE REFERENCE: ABGENIX.100A
CURRENT APPLICATION NUMBER: US/11/084,554
CURRENT FILING DATE: 2005-03-17
PRIOR APPLICATION NUMBER: 60/554,372
PRIOR FILING DATE: 2004-03-19
PRIOR APPLICATION NUMBER: 60/574,661
PRIOR FILING DATE: 2004-05-24
NUMBER OF SEQ ID NOS: 266
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 103
LENGTH: 100
TYPE: PRT
ORGANISM: Homo sapiens
US-11-084-554-103
```

```
Query Match          69.2%; Score 36; DB 11; Length 100;
Best Local Similarity 66.7%; Pred. No. 10;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;
```

```
QY 1 IYVRDGNPY 9
: || || |
DB 29 LVYSDGNTY 37
```

```
RESULT 34
US-11-084-554-107
```

```
Sequence 107, Application US/11084554
Publication No. US20050260679A1
GENERAL INFORMATION:
APPLICANT: Kellermann, Sifrid-Al
APPLICANT: Green, Larry L.
APPLICANT: Korver, Wouter
TITLE OF INVENTION: REDUCING THE RISK OF HUMAN ANTI-HUMAN
FILE REFERENCE: ABGENIX.100A
CURRENT APPLICATION NUMBER: US/11/084,554
CURRENT FILING DATE: 2005-03-17
PRIOR APPLICATION NUMBER: 60/554,372
PRIOR FILING DATE: 2004-03-19
PRIOR APPLICATION NUMBER: 60/574,661
PRIOR FILING DATE: 2004-05-24
NUMBER OF SEQ ID NOS: 266
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 107
```

```

; LENGTH: 100
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-084-554-107

```

Query Match	69.2%	Score 36;	DB 11;	Length 100;
Best Local Similarity	66.7%	Pred. No. 10;		
Matches	6;	Conservative	1;	Mismatches 2;
			Indels	0;
			Gaps	0;

Qy	1	I V Y R D G N P Y	9
	:		
Db	29	L V Y S D G N T Y	37

RESULT 35
US-11-128-900-113
; Sequence 113, Application US/11128900
; Publication No. US20050287136A1
; GENERAL INFORMATION:
; ADDITIONAL NUMBER PORTALS 0

APPLICANT: HANSON, DOUGLAS C.
 APPLICANT: NEVEU, MARK J.
 APPLICANT: MUELLER, EILEEN E.
 APPLICANT: HANKE, JEFFREY H.
 APPLICANT: GILMAN, STEVEN C.
 APPLICANT: DAVIS, C. GEOFFREY
 APPLICANT: CORVALAN, JOSE R.
 TITLE OF INVENTION: HUMAN MONOCLONAL ANTIBODIES TO CTLA-4
 FILE REFERENCE: ABX-PPI DIV3
 CURRENT APPLICATION NUMBER: US/11/128, 900
 CURRENT FILING DATE: 2005-05-12
 PRIOR APPLICATION NUMBER: US 10/776649
 PRIOR FILING DATE: 2004-02-10
 PRIOR APPLICATION NUMBER: US 10/612497
 PRIOR APPLICATION NUMBER: 2003-07-01
 PRIOR APPLICATION NUMBER: US 09/472087
 PRIOR FILING DATE: 1999-12-23
 PRIOR APPLICATION NUMBER: US 60/113647
 PRIOR FILING DATE: 1998-12-23
 NUMBER OF SEQ ID NOS: 147
 SOFTWARE: PatentIn Ver. 2.1
 SEQ ID NO 113
 LENGTH: 100
 TYPE: PRT
 ORGANISM: Homo sapiens
 US-11-128-900-113

Query Match	69.2%	Score 36;	DB 11;	Length 100;
Best Local Similarity	66.7%	Pred. No. 10;		
Matches	6; Conservative	1; Mismatches	2; Indels	0; Gaps

Qy	1	I V Y R D G N P Y	9
	:		
Db	29	L V Y S D G N T Y	37

RESULT 36
 US-11-004-590-82
 ; Sequence 82, Application US/11004590
 ; Publication No. US2006008883A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Lazar, Gregory Alan
 ; APPLICANT: Desjarlais, John R.
 ; APPLICANT: Hammond, Phillip W.
 ; TITLE OF INVENTION: METHODS OF GENERATING VARIANT PROTEINS WITH INCREASED HOST STRING
 ; TITLE OF INVENTION: CONTENT AND COMPOSITIONS THEREOF

```

? PRIOR FILING DATE: 2004-08-13
? PRIOR APPLICATION NUMBER: US 60/619,488
? PRIOR FILING DATE: 2004-10-14
? NUMBER OF SEQ ID NOS: 458
? SOFTWARE: PatentIn version 3.3

```

```

; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-004-590-82

```

Query Match	69.2%	Score 36;	DB 11;	Length 100;
Best Local Similarity	66.7%	Pred. No. 10;		
Matches	6;	Conservative	1;	Mismatches 2;
			Indels	0;
			Gaps	0;

Qy	1	I V Y R D G N P Y	9
	:		
Db	29	L V Y S D G N T Y	37

```

RESULT 37
US-11-004-590-83
: Sequence 83, Application US/11004590
: Publication No. US2006008883A1
: GENERAL INFORMATION:
: APPLICANT: Lazar, Gregory Alan
: APPLICANT: Desjardins, John R.
: APPLICANT: Hammond, Philip W.
: TITLE OF INVENTION: METHODS OF GENERATING VARIANT PROTEINS WITH INCREASED HOST STRINGING
: TITLE OF INVENTION: CONTENT AND COMPOSITIONS THEREOF
: FILE REFERENCE: 185832/US/5
: CURRENT APPLICATION NUMBER: US/11/004,590
: PRIOR FILING DATE: 2004-12-03
: PRIOR APPLICATION NUMBER: US 60/527,167
: PRIOR FILING DATE: 2003-12-04
: PRIOR APPLICATION NUMBER: US 60/581,613
: PRIOR FILING DATE: 2004-06-21
: PRIOR APPLICATION NUMBER: US 60/601,665
: PRIOR FILING DATE: 2004-08-13
: PRIOR APPLICATION NUMBER: US 60/619,483
: PRIOR FILING DATE: 2004-10-14
: NUMBER OF SEQ ID NOS: 458
: SOFTWARE: PatentIn version 3.3
: SEQ ID NO 83
: LENGTH: 100
: TYPE: PRT
: ORGANISM: Homo sapiens
: US-11-004-590-83

```

Query Match	69.2%	Score 36;	DB 11;	Length 100;
Best Local Similarity	66.7%	Pred. No. 10;		
Matches	6;	Conservative	1;	Mismatches 2; Indels 0; Gaps 0;

```
QY      1 I VYR DGNPY 9
        : || || || |
Db      29 LVYSDGNTY 37
```

RESULT 38
 US-11-136-250-103
 Sequence 103, Application US/11136250
 Publication No. US20060021074A1
 GENERAL INFORMATION:
 APPLICANT: Kellermann, Sird-AI
 APPLICANT: Green, Larry L.
 APPLICANT: Korver, Roder
 TITLE OF INVENTION: REDUCING THE RISK OF HUMAN ANTI-HUMAN
 TITLE OF INVENTION: ANTIBODIES THROUGH V GENE MANIPULATION
 FILE REFERENCE: ABGENIX.10042
 CURRENT APPLICATION NUMBER: US/11/136,250
 CURRENT FILING DATE: 2005-05-23
 PRIOR APPLICATION NUMBER: 11/084,554
 PRIOR FILING DATE: 2005-03-17

```
; PRIOR APPLICATION NUMBER: PCT/US2005/009306
; PRIOR FILING DATE: 2005-03-17
; PRIOR APPLICATION NUMBER: 60/574,661
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: 60/554,372
; PRIOR FILING DATE: 2004-03-19
; NUMBER OF SEQ ID NOS: 266
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 103
; LENGTH: 100
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-136-250-103
```

```
Query Match          69.2%; Score 36; DB 11; Length 100;
Best Local Similarity 66.7%; Pred. No. 10;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;
```

```
QY      1 IYVRDGNPY 9
       :||| |||
Db      29 LVYSDGNTY 37
```

```
RESULT 39
US-11-136-250-107
; Sequence 107, Application US/11136250
; Publication No. US20060021074A1
; GENERAL INFORMATION:
; APPLICANT: Kellermann, Stid-Ai
; APPLICANT: Green, Larry L.
; APPLICANT: Kover, Larry L.
; TITLE OF INVENTION: REDUCING THE RISK OF HUMAN ANTI-HUMAN
; FILE REFERENCE: ABSENIX.100A2
; CURRENT APPLICATION NUMBER: US/11/136,250
; PRIOR FILING DATE: 2005-05-23
; PRIOR APPLICATION NUMBER: 11/084,554
; PRIOR FILING DATE: 2005-03-17
; PRIOR APPLICATION NUMBER: PCT/US2005/009306
; PRIOR FILING DATE: 2005-03-17
; PRIOR APPLICATION NUMBER: 60/574,661
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: 60/554,372
; PRIOR FILING DATE: 2004-03-19
; NUMBER OF SEQ ID NOS: 266
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 107
; LENGTH: 100
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-136-250-107
```

```
Query Match          69.2%; Score 36; DB 11; Length 100;
Best Local Similarity 66.7%; Pred. No. 10;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;
```

```
QY      1 IYVRDGNPY 9
       :||| |||
Db      29 LVYSDGNTY 37
```

```
RESULT 40
US-11-155-843-126
; Sequence 126, Application US/11155843
; Publication No. US20060073148A1
; GENERAL INFORMATION:
; APPLICANT: Tchistiakova, Lioudmila
; APPLICANT: Kasasian, Marion T.
; APPLICANT: Donaldson, Debra D.
; APPLICANT: Tan, Xiang-Yang
; APPLICANT: Gill, Davinder
; APPLICANT: Jin, Macy X.
; APPLICANT: Jacobson, Bruce
```

```
; APPLICANT: Goldman, Samuel J.
; APPLICANT: Knopf, John
; APPLICANT: Widom, Angela M.
; TITLE OF INVENTION: IL-13 BINDING AGENTS
; FILE REFERENCE: 16158-020001
; CURRENT APPLICATION NUMBER: US/11/155,843
; CURRENT FILING DATE: 2005-06-17
; PRIOR APPLICATION NUMBER: US 60/581,078
; PRIOR FILING DATE: 2004-06-17
; PRIOR APPLICATION NUMBER: US 11/149,025
; PRIOR FILING DATE: 2005-06-09
; NUMBER OF SEQ ID NOS: 192
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 126
; LENGTH: 101
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-155-843-126
```

```
Query Match          69.2%; Score 36; DB 11; Length 101;
Best Local Similarity 66.7%; Pred. No. 11;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;
```

```
QY      1 IYVRDGNPY 9
       :||| |||
Db      29 LVYSDGNTY 37
```

```
RESULT 41
US-11-155-843-37
; Sequence 37, Application US/11155843
; Publication No. US20060073148A1
; GENERAL INFORMATION:
; APPLICANT: Tchistiakova, Lioudmila
; APPLICANT: Kasasian, Marion T.
; APPLICANT: Donaldson, Debra D.
; APPLICANT: Tan, Xiang-Yang
; APPLICANT: Gill, Davinder
; APPLICANT: Jin, Macy X.
; APPLICANT: Jacobson, Bruce
; APPLICANT: Goldman, Samuel J.
; APPLICANT: Knopf, John
; APPLICANT: Widom, Angela M.
; TITLE OF INVENTION: IL-13 BINDING AGENTS
; FILE REFERENCE: 16158-020001
; CURRENT APPLICATION NUMBER: US/11/155,843
; CURRENT FILING DATE: 2005-06-17
; PRIOR APPLICATION NUMBER: US 60/581,078
; PRIOR FILING DATE: 2004-06-17
; PRIOR APPLICATION NUMBER: US 11/149,025
; PRIOR FILING DATE: 2005-06-09
; NUMBER OF SEQ ID NOS: 192
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 37
; LENGTH: 102
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetically generated peptide
US-11-155-843-37
```

```
Query Match          69.2%; Score 36; DB 11; Length 102;
Best Local Similarity 66.7%; Pred. No. 11;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;
```

```
QY      1 IYVRDGNPY 9
       :||| |||
Db      29 LVYSDGNTY 37
```

```
RESULT 42
US-11-239-308-12
; Sequence 12, Application US/11239308
```

Publication No. US2006008883A1
GENERAL INFORMATION:
APPLICANT: Smider, Vaughn
APPLICANT: Larrick, James W.
APPLICANT: Integrigen, Inc.
TITLE OF INVENTION: Recombinant Catalytic Polypeptides and Their Uses
FILE REFERENCE: 021216-000310US
CURRENT APPLICATION NUMBER: US/11/239,308
CURRENT FILING DATE: 2005-09-28
PRIOR APPLICATION NUMBER: US/10/683,733
PRIOR FILING DATE: 2003-10-09
PRIOR APPLICATION NUMBER: US 60/417,979
PRIOR FILING DATE: 2002-10-09
NUMBER OF SEQ ID NOS: 62
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 12
LENGTH: 112
TYPE: PRT
ORGANISM: Homo sapiens
US-11-239-308-12

Query Match 69.2%; Score 36; DB 10; Length 112;
Best Local Similarity 66.7%; Pred. No. 12;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Qy 1 IVYRDGNPY 9
Db 29 LVYSDGNTY 37

RESULT 43

US-11-239-308-2
Sequence 2, Application US/11239308
Publication No. US2006008883A1
GENERAL INFORMATION:
APPLICANT: Smider, Vaughn
APPLICANT: Larrick, James W.
APPLICANT: Integrigen, Inc.
TITLE OF INVENTION: Recombinant Catalytic Polypeptides and Their Uses
FILE REFERENCE: 021216-000310US
CURRENT APPLICATION NUMBER: US/11/239,308
CURRENT FILING DATE: 2005-09-28
PRIOR APPLICATION NUMBER: US/10/683,733
PRIOR FILING DATE: 2003-10-09
PRIOR APPLICATION NUMBER: US 60/417,979
PRIOR FILING DATE: 2002-10-09
NUMBER OF SEQ ID NOS: 62
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 2
LENGTH: 113
TYPE: PRT
ORGANISM: Homo sapiens
US-11-239-308-2

Query Match 69.2%; Score 36; DB 10; Length 113;
Best Local Similarity 66.7%; Pred. No. 12;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Qy 1 IVYRDGNPY 9
Db 29 LVYSDGNTY 37

RESULT 44

US-11-155-843-190
Sequence 190, Application US/11155843
Publication No. US20060073148A1
GENERAL INFORMATION:
APPLICANT: Tshistakova, Lioudmila
APPLICANT: Kasaian, Marlon T.
APPLICANT: Donaldson, Debra D.
APPLICANT: Tan, Xiang-Yang
APPLICANT: Gill, Davinder

APPLICANT: Jin, Macy X.
APPLICANT: Jacobson, Bruce
APPLICANT: Goldman, Samuel J.
APPLICANT: Knopf, John
APPLICANT: Widom, Angela M.
TITLE OF INVENTION: IL-13 BINDING AGENTS
FILE REFERENCE: 16158-020001
CURRENT APPLICATION NUMBER: US/11/155,843
CURRENT FILING DATE: 2005-06-17
PRIOR APPLICATION NUMBER: US 60/581,078
PRIOR FILING DATE: 2004-06-17
PRIOR APPLICATION NUMBER: US 11/149,025
PRIOR FILING DATE: 2005-06-09
NUMBER OF SEQ ID NOS: 192
SOFTWARE: PatsSeq for Windows Version 4.0
SEQ ID NO 190
LENGTH: 132
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetically generated peptide
US-11-155-843-190

Query Match 69.2%; Score 36; DB 11; Length 132;
Best Local Similarity 66.7%; Pred. No. 14;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Qy 1 IVYRDGNPY 9
Db 49 LVYSDGNTY 57

RESULT 45

US-11-128-900-25
Sequence 25, Application US/11128900
Publication No. US20050287136A1
GENERAL INFORMATION:
APPLICANT: HANSON, DOUGLAS C.
APPLICANT: NEVEU, MARK J.
APPLICANT: MUELLER, EILEEN E.
APPLICANT: HANKE, JEFFREY H.
APPLICANT: GILMAN, STEVEN C.
APPLICANT: DAVIS, C. GEOFFREY
APPLICANT: CORVALAN, JOSE R.
TITLE OF INVENTION: HUMAN MONOCLONAL ANTIBODIES TO CTLA-4
FILE REFERENCE: ABX-PFI DIV3
CURRENT APPLICATION NUMBER: US/11/128,900
CURRENT FILING DATE: 2005-05-12
PRIOR APPLICATION NUMBER: US 10/776649
PRIOR FILING DATE: 2004-02-10
PRIOR APPLICATION NUMBER: US 10/612497
PRIOR APPLICATION NUMBER: 2003-07-01
PRIOR APPLICATION NUMBER: US 09/472087
PRIOR FILING DATE: 1999-12-23
PRIOR APPLICATION NUMBER: US 60/113647
PRIOR FILING DATE: 1998-12-23
NUMBER OF SEQ ID NOS: 147
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 25
LENGTH: 139
TYPE: PRT
ORGANISM: Homo sapiens
US-11-128-900-25

Query Match 69.2%; Score 36; DB 11; Length 139;
Best Local Similarity 66.7%; Pred. No. 15;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Qy 1 IVYRDGNPY 9
Db 22 LVYSDGNTY 30


```
RESULT 46
US-11-128-900-114
; Sequence 114, Application US/11128900
; Publication No. US20050287136A1
; GENERAL INFORMATION:
; APPLICANT: HANSON, DOUGLAS C.
; APPLICANT: NEVEU, MARK J.
; APPLICANT: MUELLER, EILEEN E.
; APPLICANT: HANKE, JEFFREY H.
; APPLICANT: GILMAN, STEVEN C.
; APPLICANT: DAVIS, C. GEOFFREY
; APPLICANT: CORVALAN, JOSE R.
; TITLE OF INVENTION: HUMAN MONOCLONAL ANTIBODIES TO CTLA-4
; FILE REFERENCE: ABX-PFI DIV3
; CURRENT APPLICATION NUMBER: US/11/128,900
; CURRENT FILING DATE: 2005-05-12
; PRIOR APPLICATION NUMBER: US 10/776649
; PRIOR FILING DATE: 2004-02-10
; PRIOR APPLICATION NUMBER: US 10/612497
; PRIOR FILING DATE: 2003-07-01
; PRIOR APPLICATION NUMBER: US 09/472087
; PRIOR FILING DATE: 1999-12-23
; PRIOR APPLICATION NUMBER: US 60/113647
; PRIOR FILING DATE: 1998-12-23
; NUMBER OF SEQ ID NOS: 147
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 114
; LENGTH: 139
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-128-900-114

Query Match      69.2%; Score 36; DB 11; Length 139;
Best Local Similarity 66.7%; Pred. No. 15;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY      1 IYRDGNPY 9
      : |||||
Db      22 LVYSDGNTY 30

RESULT 47
US-10-793-626-2428
; Sequence 2428, Application US/10793626
; Publication No. US20050255478A1
; GENERAL INFORMATION:
; APPLICANT: KIMBERLY, WILLIAM JOHN
; TITLE OF INVENTION: STAPHYLOCOCCUS EPIDERMIDIS NUCLEIC ACIDS AND PROTEINS
; FILE REFERENCE: PU3480US
; CURRENT APPLICATION NUMBER: US/10/793,626
; CURRENT FILING DATE: 2004-03-04
; PRIOR APPLICATION NUMBER: 60/164,258
; PRIOR FILING DATE: 1999-11-09
; NUMBER OF SEQ ID NOS: 4472
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2428
; LENGTH: 253
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: synthetic
US-10-793-626-2428

Query Match      69.2%; Score 36; DB 9; Length 253;
Best Local Similarity 62.5%; Pred. No. 28;
Matches 5; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY      2 VYRDGNPY 9
      : |||||
Db      84 IYHDKPY 91
```

```
RESULT 48
US-11-054-515-1964
; Sequence 1964, Application US/11054515
; Publication No. US20050255532A1
; GENERAL INFORMATION:
; APPLICANT: Ruben et al.
; TITLE OF INVENTION: Antibodies that Immunosepecifically Bind Blys
; FILE REFERENCE: PFS23P3
; CURRENT APPLICATION NUMBER: US/11/054,515
; CURRENT FILING DATE: 2005-02-10
; PRIOR APPLICATION NUMBER: 60/543,296
; PRIOR FILING DATE: 2004-02-11
; PRIOR APPLICATION NUMBER: 60/580,347
; PRIOR FILING DATE: 2004-06-18
; PRIOR APPLICATION NUMBER: 10/293,418
; PRIOR FILING DATE: 2002-11-14
; PRIOR APPLICATION NUMBER: 60/331,469
; PRIOR FILING DATE: 2001-11-16
; PRIOR APPLICATION NUMBER: 60/340,817
; PRIOR FILING DATE: 2001-12-19
; PRIOR APPLICATION NUMBER: 09/880,748
; PRIOR FILING DATE: 2001-06-15
; PRIOR APPLICATION NUMBER: 60/293,499
; PRIOR FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: 60/277,379
; PRIOR FILING DATE: 2001-03-21
; PRIOR APPLICATION NUMBER: 60/276,248
; PRIOR FILING DATE: 2001-03-16
; PRIOR APPLICATION NUMBER: 60/240,816
; PRIOR FILING DATE: 2000-10-17
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 3247
; SEQ ID NO 1964
; LENGTH: 253
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-054-515-1964

Query Match      69.2%; Score 36; DB 11; Length 253;
Best Local Similarity 66.7%; Pred. No. 28;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY      1 IYRDGNPY 9
      : |||||
Db      169 LVYSDGNTY 177

RESULT 49
US-11-266-444-1964
; Sequence 1964, Application US/11266444
; Publication No. US20060062789A1
; GENERAL INFORMATION:
; APPLICANT: Ruben et al.
; TITLE OF INVENTION: Antibodies that Immunosepecifically Bind to B Lymphocyte Stimulat
; FILE REFERENCE: PFS23P3
; CURRENT APPLICATION NUMBER: US/11/266,444
; CURRENT FILING DATE: 2005-11-04
; PRIOR APPLICATION NUMBER: 09/880,746
; PRIOR FILING DATE: 2001-06-15
; PRIOR APPLICATION NUMBER: 60/212,210
; PRIOR FILING DATE: 2000-06-16
; PRIOR APPLICATION NUMBER: 60/240,816
; PRIOR FILING DATE: 2000-10-17
; PRIOR APPLICATION NUMBER: 60/276,248
; PRIOR FILING DATE: 2001-03-16
; PRIOR APPLICATION NUMBER: 60/277,379
; PRIOR FILING DATE: 2001-03-21
; PRIOR APPLICATION NUMBER: 60/293,499
; PRIOR FILING DATE: 2001-05-25
; NUMBER OF SEQ ID NOS: 3239
; SOFTWARE: PatentIn Ver. 2.0
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TYPE: PRT
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Query Match 69.2%; Score 36; DB 11; Length 253;
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Db 169 LVYSDGNTY 177

RESULT 50
US-11-056-825-7
Sequence 7, Application US/11056825
Publication No. US20050255109A1
GENERAL INFORMATION:
APPLICANT: Janda, Kim D.
APPLICANT: Saven, Alan
TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR INHIBITION OF METASTASIS
FILE REFERENCE: SCRP-0042
CURRENT APPLICATION NUMBER: US/11/056,825
CURRENT FILING DATE: 2005-02-11
PRIOR APPLICATION NUMBER: US 60/626,726
PRIOR FILING DATE: 2004-11-10
PRIOR APPLICATION NUMBER: US 60/544,807
PRIOR FILING DATE: 2004-02-13
NUMBER OF SEQ ID NOS: 13
SOFTWARE: PatentIn version 3.3
SEQ ID NO 7
LENGTH: 259
TYPE: PRT
ORGANISM: Artificial
FEATURE:
OTHER INFORMATION: Synthetic Construct
US-11-056-825-7

Query Match 69.2%; Score 36; DB 11; Length 259;
Best Local Similarity 66.7%; Pred. No. 29;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

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Search completed: May 5, 2006, 08:40:39
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OM protein - protein search, using SW model

Run on: May 5, 2006, 04:48:55 ; Search time 20.7 Seconds
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Title: US-08-170-344-45
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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249	31	58.5	254	2	US-08-478-316-21	Sequence 21, Appl	322	31	58.5	1002	2	US-10-290-579A-187	Sequence 187, App
250	31	58.5	254	2	US-08-478-316-22	Sequence 22, Appl	323	31	58.5	1003	1	US-07-743-357-8	Sequence 8, Appl
251	31	58.5	254	2	US-09-113-750A-38	Sequence 38, Appl	324	31	58.5	1003	1	US-07-743-357-9	Sequence 9, Appl
252	31	58.5	254	2	US-09-019-793A-16	Sequence 16, Appl	325	31	58.5	1003	1	US-07-743-357-10	Sequence 10, Appl
253	31	58.5	254	2	US-09-019-793A-17	Sequence 17, Appl	326	31	58.5	1003	2	US-09-309-572-17	Sequence 17, Appl
254	31	58.5	254	2	US-09-019-793A-18	Sequence 18, Appl	327	31	58.5	1003	2	US-09-718-096-17	Sequence 183, App
255	31	58.5	254	2	US-09-019-793A-19	Sequence 19, Appl	328	31	58.5	1003	2	US-10-290-579A-183	Sequence 188, App
256	31	58.5	254	2	US-09-019-793A-20	Sequence 20, Appl	329	31	58.5	1003	2	US-10-290-579A-182	Sequence 192, App
257	31	58.5	254	2	US-09-019-793A-21	Sequence 21, Appl	330	31	58.5	1003	2	US-10-290-579A-191	Sequence 197, App
258	31	58.5	254	2	US-09-019-793A-22	Sequence 22, Appl	331	31	58.5	1003	2	US-09-393-795-7	Sequence 7, Appl
259	31	58.5	254	2	US-08-301-435-69	Sequence 69, Appl	332	31	58.5	1003	2	US-09-393-795-9	Sequence 11, Appl
260	31	58.5	254	2	US-09-601-326-16	Sequence 16, Appl	333	31	58.5	1003	2	US-09-393-795-11	Sequence 7, Appl
261	31	58.5	254	2	US-09-601-326-17	Sequence 17, Appl	334	31	58.5	1004	1	US-07-743-357-7	Sequence 191, App
262	31	58.5	254	2	US-09-601-326-18	Sequence 18, Appl	335	31	58.5	1005	1	US-07-743-357-1	Sequence 197, App
263	31	58.5	254	2	US-09-601-326-19	Sequence 19, Appl	336	31	58.5	1005	2	US-10-290-579A-193	Sequence 28, Appl
264	31	58.5	254	2	US-09-601-326-20	Sequence 20, Appl	337	31	58.5	1007	2	US-10-209-059-28	Sequence 7, Appl
265	31	58.5	254	2	US-09-601-326-21	Sequence 21, Appl	338	31	58.5	1010	2	US-09-566-047-7	Sequence 7, Appl
266	31	58.5	254	2	US-09-601-326-22	Sequence 22, Appl	339	31	58.5	1010	2	US-09-566-047-7	Sequence 6, Appl
267	31	58.5	254	4	PCR-US95-09927-5	Sequence 5, Appl	340	31	58.5	1014	2	US-08-463-210-9	Sequence 9, Appl
268	31	58.5	254	4	PCR-US95-10904-69	Sequence 69, Appl	341	31	58.5	1015	2	US-08-463-210-9	Sequence 9, Appl
269	31	58.5	266	2	US-10-104-047-3891	Sequence 3891, Ap	342	31	58.5	1015	2	US-08-463-028-9	Sequence 9, Appl
270	31	58.5	290	2	US-09-231-182B-2	Sequence 2, Appl	343	31	58.5	1015	2	US-08-463-209-9	Sequence 9, Appl
271	31	58.5	295	2	US-09-543-681A-4711	Sequence 4711, Ap	344	31	58.5	1015	2	US-07-743-357-2	Sequence 2, Appl
272	31	58.5	334	2	US-10-104-047-2440	Sequence 2440, Ap	345	31	58.5	1016	1	US-07-743-357-3	Sequence 3, Appl
273	31	58.5	334	2	US-09-922-501-15	Sequence 15, Appl	346	31	58.5	1016	1	US-07-743-357-4	Sequence 4, Appl
274	31	58.5	343	2	US-09-690-454-83	Sequence 83, Appl	347	31	58.5	1016	1	US-07-743-357-5	Sequence 5, Appl
275	31	58.5	377	2	US-09-252-991A-19705	Sequence 19705, A	348	31	58.5	1016	1	US-07-743-357-5	Sequence 6, Appl
276	31	58.5	385	1	US-08-597-545-1	Sequence 1, Appl	349	31	58.5	1036	2	US-09-068-740A-6	Sequence 18, Appl
277	31	58.5	385	1	US-08-457-135-1	Sequence 1, Appl	350	31	58.5	1067	2	US-09-578-536C-18	Sequence 16119, A
278	31	58.5	385	2	US-09-142-027A-10	Sequence 10, Appl	351	31	58.5	1068	2	US-09-248-796A-16119	Sequence 15, Appl
279	31	58.5	403	2	US-09-470-526-2	Sequence 2, Appl	352	31	58.5	1111	2	US-08-317-450B-15	Sequence 15, Appl
280	31	58.5	406	2	US-10-104-047-3010	Sequence 3010, Ap	353	31	58.5	1111	2	US-08-800-593-13	Sequence 15, Appl
281	31	58.5	407	2	US-09-328-352-7393	Sequence 7393, Ap	354	31	58.5	1111	2	US-09-756-071B-15	Sequence 28, Appl
282	31	58.5	409	2	US-09-328-352-7559	Sequence 7559, Ap	355	31	58.5	1112	2	US-09-560-385A-28	Sequence 32, Appl
283	31	58.5	416	2	US-10-101-464A-937	Sequence 937, App	356	31	58.5	1172	2	US-09-560-385A-30	Sequence 30, Appl
284	31	58.5	426	2	US-09-602-777A-70	Sequence 70, Appl	357	31	58.5	1172	2	US-09-560-385A-32	Sequence 32, Appl
285	31	58.5	426	2	US-09-602-777A-72	Sequence 72, Appl	358	31	58.5	1187	1	US-09-068-740A-7	Sequence 7, Appl
286	31	58.5	482	2	US-09-949-016-9106	Sequence 9106, Ap	359	31	58.5	1193	1	US-08-317-450B-13	Sequence 13, Appl
287	31	58.5	488	2	US-08-985-343-1	Sequence 1, Appl	360	31	58.5	1193	2	US-08-400-159-10	Sequence 10, Appl
288	31	58.5	495	1	US-07-841-997A-2	Sequence 2, Appl	361	31	58.5	1193	2	US-08-611-729A-10	Sequence 10, Appl
289	31	58.5	495	1	US-08-290-301-2	Sequence 2, Appl	362	31	58.5	1193	2	US-09-560-385A-26	Sequence 26, Appl
290	31	58.5	495	1	US-08-588-983-2	Sequence 2, Appl	363	31	58.5	1193	2	US-09-560-385A-28	Sequence 28, Appl
291	31	58.5	495	1	US-08-588-976-2	Sequence 2, Appl	364	31	58.5	1193	2	US-09-310-685-8	Sequence 8, Appl
292	31	58.5	495	2	US-09-013-598-2	Sequence 2, Appl	365	31	58.5	1193	2	US-09-310-685-8	Sequence 13, Appl
293	31	58.5	495	2	US-08-985-343-2	Sequence 2348, Ap	366	31	58.5	1193	2	US-10-053-665A-31	Sequence 31, Appl
294	31	58.5	498	2	US-10-104-047-2548	Sequence 15410, A	367	31	58.5	1208	2	US-09-756-071B-13	Sequence 1, Appl
295	31	58.5	506	2	US-09-248-796A-15410	Sequence 9, Appl	368	31	58.5	1208	2	US-09-199-865-1	Sequence 1, Appl
296	31	58.5	525	2	US-09-470-526-9	Sequence 40599, A	369	31	58.5	1215	2	US-10-213-328-1	Sequence 5313, Ap
297	31	58.5	597	2	US-09-861-451A-40	Sequence 44599, A	370	31	58.5	1215	2	US-08-400-159-6	Sequence 6, Appl
298	31	58.5	678	2	US-08-274-121B-6	Sequence 6, Appl	371	31	58.5	1218	2	US-08-611-729A-6	Sequence 7, Appl
299	31	58.5	699	2	US-08-274-121B-6	Sequence 17865, A	372	31	58.5	1218	2	US-09-214-278-7	Sequence 11, Appl
300	31	58.5	703	2	US-09-552-991A-17865	Sequence 41626, A	373	31	58.5	1218	2	US-09-855-722-7	Sequence 7, Appl
301	31	58.5	733	2	US-09-270-767-41626	Sequence 20, Appl	374	31	58.5	1218	2	US-09-855-722-7	Sequence 85, Appl
302	31	58.5	773	1	US-09-913-301-5	Sequence 20, Appl	375	31	58.5	1218	2	US-09-917-254-85	Sequence 85, Appl
303	31	58.5	789	1	US-08-431-080-20	Sequence 20, Appl	376	31	58.5	1218	2	US-09-917-254-85	Sequence 183, App
304	31	58.5	789	1	US-08-431-080-20	Sequence 20, Appl	377	31	58.5	1218	2	US-09-917-254-85	Sequence 188, App
305	31	58.5	789	1	US-08-431-080-20	Sequence 20, Appl	378	31	58.5	1218	2	US-09-917-254-85	Sequence 192, App
306	31	58.5	789	1	US-08-431-080-20	Sequence 20, Appl	379	31	58.5	1218	2	US-09-917-254-85	Sequence 197, App
307	31	58.5	801	2	US-09-913-301-7	Sequence 2, Appl	380	31	58.5	1218	2	US-09-917-254-85	Sequence 197, App
308	31	58.5	804	2	US-09-913-301-7	Sequence 257, App	381	31	58.5	1218	2	US-09-917-254-85	Sequence 197, App
309	31	58.5	805	2	US-09-538-092-257	Sequence 827, App	382	31	58.5	1218	2	US-09-917-254-85	Sequence 197, App
310	31	58.5	816	2	US-10-101-464A-827	Sequence 2, Appl	383	31	58.5	1218	2	US-09-917-254-85	Sequence 197, App
311	31	58.5	850	2	US-09-952-060-2	Sequence 2, Appl	384	31	58.5	1218	2	US-09-917-254-85	Sequence 197, App
312	31	58.5	850	2	US-09-952-060-4	Sequence 6, Appl	385	31	58.5	1218	2	US-09-917-254-85	Sequence 197, App
313	31	58.5	875	2	US-09-952-060-6	Sequence 6, Appl	386	31	58.5	1218	2	US-09-917-254-85	Sequence 197, App
314	31	58.5	875	2	US-09-952-060-8	Sequence 8, Appl	387	31	58.5	1218	2	US-09-917-254-85	Sequence 197, App
315	31	58.5	913	1	US-07-743-357-6	Sequence 6, Appl	388	31	58.5	1218	2	US-09-917-254-85	Sequence 197, App
316	31	58.5	913	1	US-07-743-357-6	Sequence 22, Appl	389	31	58.5	1218	2	US-09-917-254-85	Sequence 197, App
317	31	58.5	984	2	US-09-409-604-4	Sequence 2, Appl	390	31	58.5	1218	2	US-09-917-254-85	Sequence 197, App
318	31	58.5	999	2	US-09-409-604-4	Sequence 4, Appl	391	31	58.5	1218	2	US-09-917-254-85	Sequence 197, App
319	31	58.5	1000	2	US-10-290-579A-190	Sequence 190, App	392	31	58.5	1218	2	US-09-917-254-85	Sequence 197, App
					US-10-290-579A-186	Sequence 186, App							

393	31	58.5	3635	2	US-10-037-182-4	Sequence 4, Appl1	466	30	56.6	163	2	US-09-270-767-33767	Sequence 33767, A
394	30	56.6	9	2	US-08-159-339A-249	Sequence 249, App	467	30	56.6	165	1	US-08-477-493-3	Sequence 3, Appl1
395	30	56.6	15	2	US-09-623-548A-1603	Sequence 1603, Ap	468	30	56.6	166	2	US-09-788-070-4	Sequence 4, Appl1
396	30	56.6	15	2	US-09-657-276-1603	Sequence 1603, Ap	469	30	56.6	166	2	US-10-142-373-4	Sequence 4, Appl1
397	30	56.6	19	2	US-08-974-022-40	Sequence 40, Appl	470	30	56.6	166	2	US-08-155-252A-4	Sequence 4, Appl1
398	30	56.6	19	2	US-08-795-445A-40	Sequence 40, Appl	471	30	56.6	169	2	US-08-465-375-5	Sequence 4, Appl1
399	30	56.6	19	2	US-08-975-447A-40	Sequence 40, Appl	472	30	56.6	170	2	US-09-270-767-77181	Sequence 47181, A
400	30	56.6	19	2	US-08-974-186-40	Sequence 40, Appl	473	30	56.6	174	2	US-08-706-945D-136	Sequence 136, App
401	30	56.6	19	2	US-08-795-446B-40	Sequence 40, Appl	474	30	56.6	178	2	US-09-706-722A-7	Sequence 7, Appl1
402	30	56.6	19	2	US-08-706-945D-62	Sequence 62, Appl	475	30	56.6	180	2	US-09-107-532A-5901	Sequence 5901, Ap
403	30	56.6	19	2	US-08-577-788C-40	Sequence 40, Appl	476	30	56.6	180	2	US-09-949-016-6478	Sequence 6478, Ap
404	30	56.6	25	1	US-08-620-151-72	Sequence 72, Appl	477	30	56.6	184	2	US-09-482-273-231	Sequence 231, App
405	30	56.6	26	1	US-08-331-394-16	Sequence 16, Appl	478	30	56.6	185	2	US-09-482-273-190	Sequence 190, App
406	30	56.6	26	1	US-08-250-858-16	Sequence 16, Appl	479	30	56.6	187	2	US-10-232-858-81	Sequence 81, Appl
407	30	56.6	26	1	US-08-444-915-16	Sequence 16, Appl	480	30	56.6	187	2	US-09-338-063A-81	Sequence 81, Appl
408	30	56.6	26	1	US-08-744-139-16	Sequence 16, Appl	481	30	56.6	197	2	US-09-902-540-14453	Sequence 14453, A
409	30	56.6	26	2	US-09-253-396A-213	Sequence 213, App	482	30	56.6	197	2	US-10-232-858-76	Sequence 76, Appl
410	30	56.6	26	2	US-08-779-599-16	Sequence 16, Appl	483	30	56.6	197	2	US-09-338-063A-76	Sequence 76, Appl
411	30	56.6	26	4	PCR-US95-06639-16	Sequence 16, Appl	484	30	56.6	208	2	US-08-577-788C-50	Sequence 50, Appl
412	30	56.6	27	2	US-10-216-556A-17	Sequence 17, Appl	485	30	56.6	223	2	US-09-270-767-38098	Sequence 38098, A
413	30	56.6	37	2	US-09-733-210-507	Sequence 507, App	486	30	56.6	223	2	US-09-270-767-53315	Sequence 53315, A
414	30	56.6	37	2	US-09-732-210-512	Sequence 512, App	487	30	56.6	225	1	US-08-152-019A-33	Sequence 33, Appl
415	30	56.6	38	2	US-09-732-210-993	Sequence 993, App	488	30	56.6	226	2	US-09-133-321-2	Sequence 2, Appl1
416	30	56.6	47	2	US-08-706-945D-143	Sequence 143, App	489	30	56.6	226	2	US-10-176-884-18	Sequence 18, Appl
417	30	56.6	48	2	US-08-974-022-43	Sequence 43, Appl	490	30	56.6	231	2	US-09-324-258-20	Sequence 20, Appl
418	30	56.6	48	2	US-08-795-445A-43	Sequence 43, Appl	491	30	56.6	244	2	US-09-163-507-1	Sequence 1, Appl1
419	30	56.6	48	2	US-08-795-447A-43	Sequence 43, Appl	492	30	56.6	244	2	US-09-163-507-2	Sequence 2, Appl1
420	30	56.6	48	2	US-08-974-186-43	Sequence 43, Appl	493	30	56.6	245	2	US-09-163-507-3	Sequence 3, Appl1
421	30	56.6	48	2	US-08-795-446B-43	Sequence 43, Appl	494	30	56.6	247	2	US-10-104-047-2014	Sequence 2014, Ap
422	30	56.6	48	2	US-08-577-788C-43	Sequence 43, Appl	495	30	56.6	250	2	US-09-718-032-4	Sequence 4, Appl1
423	30	56.6	51	2	US-09-270-767-34690	Sequence 34690, A	496	30	56.6	268	1	US-08-852-743-3	Sequence 3, Appl1
424	30	56.6	51	2	US-09-270-767-49907	Sequence 49907, A	497	30	56.6	268	1	US-09-185-370-1	Sequence 3, Appl1
425	30	56.6	68	2	US-09-107-532A-6888	Sequence 6888, Ap	498	30	56.6	269	1	US-08-460-309-14	Sequence 14, Appl
426	30	56.6	70	2	US-08-974-022-41	Sequence 41, Appl	499	30	56.6	269	1	US-08-125-077-14	Sequence 14, Appl
427	30	56.6	70	2	US-08-795-445A-41	Sequence 41, Appl	500	30	56.6	271	1	US-08-117-083-14	Sequence 14, Appl
428	30	56.6	70	2	US-08-795-447A-41	Sequence 41, Appl	501	30	56.6	272	2	US-10-232-858-75	Sequence 75, Appl
429	30	56.6	70	2	US-08-974-186-41	Sequence 41, Appl	502	30	56.6	272	2	US-09-338-063A-75	Sequence 75, Appl
430	30	56.6	70	2	US-08-795-446B-41	Sequence 41, Appl	503	30	56.6	274	2	US-09-538-092-282	Sequence 282, App
431	30	56.6	70	2	US-08-706-945D-119	Sequence 119, App	504	30	56.6	278	2	US-09-485-885-21	Sequence 21, Appl
432	30	56.6	70	2	US-08-577-788C-41	Sequence 41, Appl	505	30	56.6	288	2	US-09-949-016-6985	Sequence 685, Ap
433	30	56.6	77	2	US-08-061-376-11	Sequence 11, Appl	506	30	56.6	291	2	US-09-482-273-129	Sequence 129, App
434	30	56.6	81	1	US-08-812-003-2	Sequence 2, Appl1	507	30	56.6	293	2	US-09-896-096A-18	Sequence 18, Appl
435	30	56.6	84	2	US-10-232-858-82	Sequence 82, Appl	508	30	56.6	305	2	US-09-765-815-10	Sequence 10, Appl
436	30	56.6	84	2	US-09-338-063A-82	Sequence 82, Appl	509	30	56.6	320	2	US-09-248-796A-15998	Sequence 15998, A
437	30	56.6	98	2	US-09-270-767-39746	Sequence 39746, A	510	30	56.6	321	2	US-10-232-858-80	Sequence 80, Appl
438	30	56.6	98	2	US-09-270-767-54963	Sequence 54963, A	511	30	56.6	321	2	US-09-338-063A-80	Sequence 80, Appl
439	30	56.6	106	2	US-10-232-858-78	Sequence 78, Appl	512	30	56.6	326	2	US-09-949-016-8980	Sequence 8980, Ap
440	30	56.6	106	2	US-09-338-063A-78	Sequence 78, Appl	513	30	56.6	326	2	US-10-232-858-71	Sequence 71, Appl
441	30	56.6	124	2	US-09-134-001C-5344	Sequence 5344, Ap	514	30	56.6	326	2	US-09-338-063A-71	Sequence 71, Appl
442	30	56.6	139	2	US-08-706-945D-130	Sequence 130, App	515	30	56.6	327	2	US-10-232-858-72	Sequence 72, Appl
443	30	56.6	141	2	US-09-270-767-31758	Sequence 31758, A	516	30	56.6	327	2	US-09-338-063A-72	Sequence 72, Appl
444	30	56.6	141	2	US-09-270-767-46975	Sequence 46975, A	517	30	56.6	328	2	US-09-270-767-58019	Sequence 58019, A
445	30	56.6	143	2	US-10-232-858-77	Sequence 77, Appl	518	30	56.6	329	1	US-08-739-485-3	Sequence 3, Appl1
446	30	56.6	143	2	US-09-338-063A-77	Sequence 77, Appl	519	30	56.6	330	2	US-09-248-796A-19977	Sequence 19977, A
447	30	56.6	144	2	US-09-949-016-11102	Sequence 11102, A	520	30	56.6	332	2	US-09-659-519-4	Sequence 4, Appl1
448	30	56.6	145	2	US-10-232-858-15	Sequence 15, Appl	521	30	56.6	338	2	US-09-633-145-2	Sequence 2, Appl1
449	30	56.6	145	2	US-09-095-094-20	Sequence 20, Appl	522	30	56.6	339	2	US-09-232-858-74	Sequence 74, Appl
450	30	56.6	147	2	US-09-527-236A-20	Sequence 20, Appl	523	30	56.6	342	2	US-08-840-713-4	Sequence 4, Appl1
451	30	56.6	147	2	US-09-756-854-20	Sequence 20, Appl	524	30	56.6	348	1	US-08-118-270-13	Sequence 13, Appl
452	30	56.6	147	2	US-09-590-447-5	Sequence 5, Appl1	525	30	56.6	348	4	FCT-US93-08528-13	Sequence 13, Appl
453	30	56.6	147	2	US-10-041-574-20	Sequence 20, Appl	526	30	56.6	350	2	US-09-270-767-42267	Sequence 42267, A
454	30	56.6	147	2	US-09-095-094-20	Sequence 20, Appl	527	30	56.6	351	2	US-10-232-858-74	Sequence 74, Appl
455	30	56.6	150	2	US-09-134-001C-4722	Sequence 4722, Ap	528	30	56.6	351	2	US-09-338-063A-74	Sequence 74, Appl
456	30	56.6	150	2	US-09-710-279-328	Sequence 328, App	529	30	56.6	359	2	US-10-232-858-68	Sequence 68, Appl
457	30	56.6	154	2	US-10-232-858-13	Sequence 13, Appl	530	30	56.6	359	2	US-10-232-858-70	Sequence 70, Appl
458	30	56.6	154	2	US-09-338-063A-13	Sequence 13, Appl	531	30	56.6	359	2	US-09-338-063A-68	Sequence 68, Appl
459	30	56.6	155	2	US-09-902-540-11918	Sequence 11918, A	532	30	56.6	359	2	US-09-338-063A-70	Sequence 70, Appl
460	30	56.6	156	2	US-09-270-767-43152	Sequence 43152, A	533	30	56.6	362	2	US-10-232-858-11	Sequence 11, Appl
461	30	56.6	158	1	US-08-247-904B-10	Sequence 10, Appl	534	30	56.6	362	2	US-09-338-063A-11	Sequence 11, Appl
462	30	56.6	158	2	US-08-767-902A-19	Sequence 19, Appl	535	30	56.6	363	2	US-09-482-273-230	Sequence 230, App
463	30	56.6	158	2	US-09-422-680A-24	Sequence 24, Appl	536	30	56.6	363	2	US-10-232-858-69	Sequence 69, Appl
464	30	56.6	160	2	US-09-270-767-57547	Sequence 57547, A	537	30	56.6	363	2	US-09-338-063A-69	Sequence 69, Appl
465	30	56.6	161	2	US-09-632-277A-3	Sequence 3, Appl1	538	30	56.6	364	2	US-08-706-945D-141	Sequence 141, App

539	30	56.6	364	2	US-08-706-945D-142	Sequence 142, App	612	30	56.6	496	2	US-08-840-713-39	Sequence 39, Appl
540	30	56.6	364	2	US-09-198-452A-423	Sequence 423, App	613	30	56.6	497	6	5486473-4	Patent No. 5486473
541	30	56.6	364	2	US-09-438-185A-406	Sequence 406, App	614	30	56.6	506	1	US-08-359-780-2	Sequence 2, Appl1
542	30	56.6	364	2	US-09-999-833A-515	Sequence 515, App	615	30	56.6	506	1	US-08-475-682-2	Sequence 2, Appl1
543	30	56.6	364	2	US-10-020-445A-515	Sequence 515, App	616	30	56.6	506	1	US-08-780-833-2	Sequence 2, Appl1
544	30	56.6	380	2	US-10-232-858-4	Sequence 4, Appl1	617	30	56.6	506	1	US-08-636-036-2	Sequence 2, Appl1
545	30	56.6	380	2	US-09-338-063A-4	Sequence 4, Appl1	618	30	56.6	506	2	US-08-918-509-2	Sequence 2, Appl1
546	30	56.6	383	2	US-09-485-885-23	Sequence 23, Appl1	619	30	56.6	506	2	US-09-108-262-2	Sequence 2, Appl1
547	30	56.6	386	2	US-09-949-016-11378	Sequence 11378, A	620	30	56.6	506	2	US-09-688-188B-94	Sequence 94, Appl
548	30	56.6	391	2	US-10-232-858-106	Sequence 106, App	621	30	56.6	506	2	US-09-291-417D-94	Sequence 94, Appl1
549	30	56.6	391	2	US-09-338-063A-106	Sequence 106, App	622	30	56.6	517	2	US-08-985-343-3	Sequence 3, Appl1
550	30	56.6	393	2	US-10-232-858-79	Sequence 79, Appl	623	30	56.6	524	1	US-08-615-942A-2	Sequence 2, Appl1
551	30	56.6	393	2	US-09-338-063A-79	Sequence 79, Appl	624	30	56.6	524	1	US-09-237-325-2	Sequence 2, Appl1
552	30	56.6	394	2	US-10-232-858-9	Sequence 9, Appl1	625	30	56.6	524	2	US-09-538-092-1301	Sequence 1301, Ap
553	30	56.6	394	2	US-09-338-063A-9	Sequence 9, Appl1	626	30	56.6	530	2	US-08-840-713-2	Sequence 2, Appl1
554	30	56.6	396	2	US-09-252-991A-18959	Sequence 18959, A	627	30	56.6	532	2	US-09-826-509-121	Sequence 521, App
555	30	56.6	399	2	US-10-232-858-73	Sequence 73, Appl	628	30	56.6	533	2	US-09-347-819-2	Sequence 2, Appl1
556	30	56.6	399	2	US-09-338-063A-73	Sequence 73, Appl	629	30	56.6	544	1	US-08-935-760-2	Sequence 2, Appl1
557	30	56.6	401	2	US-08-974-022-6	Sequence 2, Appl1	630	30	56.6	544	1	US-08-559-397A-19	Sequence 19, Appl
558	30	56.6	401	2	US-08-974-022-4	Sequence 4, Appl1	631	30	56.6	544	2	US-08-559-397A-30	Sequence 30, Appl
559	30	56.6	401	2	US-08-974-022-6	Sequence 6, Appl1	632	30	56.6	544	2	US-08-688-188B-95	Sequence 95, Appl
560	30	56.6	401	2	US-09-042-785A-12	Sequence 12, Appl	633	30	56.6	544	2	US-09-291-417D-95	Sequence 95, Appl
561	30	56.6	401	2	US-09-042-785A-13	Sequence 13, Appl	634	30	56.6	544	2	US-09-949-016-11562	Sequence 11562, A
562	30	56.6	401	2	US-08-795-445A-2	Sequence 2, Appl1	635	30	56.6	545	1	US-08-935-760-4	Sequence 4, Appl1
563	30	56.6	401	2	US-08-795-445A-4	Sequence 4, Appl1	636	30	56.6	545	2	US-09-688-188B-93	Sequence 93, Appl
564	30	56.6	401	2	US-08-795-445A-6	Sequence 6, Appl1	637	30	56.6	545	2	US-09-291-417D-93	Sequence 93, Appl
565	30	56.6	401	2	US-08-795-445A-6	Sequence 2, Appl1	638	30	56.6	545	2	US-09-538-092-1297	Sequence 1297, Ap
566	30	56.6	401	2	US-08-795-447A-2	Sequence 4, Appl1	639	30	56.6	545	2	US-09-902-540-15239	Sequence 15239, A
567	30	56.6	401	2	US-08-795-447A-4	Sequence 4, Appl1	640	30	56.6	546	2	US-09-949-016-10951	Sequence 10951, A
568	30	56.6	401	2	US-08-795-447A-6	Sequence 6, Appl1	641	30	56.6	551	2	US-10-087-167-105	Sequence 16, Appl
569	30	56.6	401	2	US-08-974-186-2	Sequence 2, Appl1	642	30	56.6	557	1	US-08-313-288B-16	Sequence 16, Appl
570	30	56.6	401	2	US-08-974-186-4	Sequence 4, Appl1	643	30	56.6	560	1	US-08-559-432-5	Sequence 5, Appl1
571	30	56.6	401	2	US-08-795-446B-2	Sequence 2, Appl1	644	30	56.6	560	2	US-09-949-016-10197	Sequence 10187, A
572	30	56.6	401	2	US-08-795-446B-4	Sequence 4, Appl1	645	30	56.6	564	2	US-09-270-767-42699	Sequence 42699, A
573	30	56.6	401	2	US-08-795-446B-6	Sequence 6, Appl1	646	30	56.6	564	2	US-10-087-167-121	Sequence 121, App
574	30	56.6	401	2	US-09-153-927-1	Sequence 1, Appl1	647	30	56.6	588	2	US-10-087-167-123	Sequence 123, App
575	30	56.6	401	2	US-09-072-993C-1	Sequence 124, App	648	30	56.6	588	2	US-10-087-167-143	Sequence 143, App
576	30	56.6	401	2	US-08-706-945D-124	Sequence 126, App	649	30	56.6	589	2	US-10-012-991-3	Sequence 20, Appl
577	30	56.6	401	2	US-08-706-945D-126	Sequence 128, App	650	30	56.6	591	1	US-08-468-249A-40	Sequence 119, App
578	30	56.6	401	2	US-08-577-788C-2	Sequence 2, Appl1	651	30	56.6	591	2	US-10-087-167-119	Sequence 125, App
579	30	56.6	401	2	US-08-577-788C-4	Sequence 4, Appl1	652	30	56.6	593	2	US-10-087-167-127	Sequence 127, App
580	30	56.6	401	2	US-08-577-788C-6	Sequence 6, Appl1	653	30	56.6	599	2	US-10-087-167-137	Sequence 148, App
581	30	56.6	401	2	US-08-577-788C-6	Sequence 54, Appl	654	30	56.6	602	2	US-10-087-167-143	Sequence 143, App
582	30	56.6	401	2	US-08-577-788C-55	Sequence 55, Appl	655	30	56.6	614	1	US-08-295-814E-12	Sequence 12, Appl
583	30	56.6	401	2	US-08-577-788C-55	Sequence 56, Appl	656	30	56.6	614	1	US-08-543-881-2	Sequence 2, Appl1
584	30	56.6	401	2	US-08-577-788C-56	Sequence 56, Appl	657	30	56.6	614	1	US-08-291-229-7	Sequence 7, Appl1
585	30	56.6	401	2	US-09-064-832-2	Sequence 5, Appl1	658	30	56.6	614	1	US-08-291-229-8	Sequence 8, Appl1
586	30	56.6	401	2	US-10-232-858-5	Sequence 5, Appl1	659	30	56.6	614	1	US-08-291-229-8	Sequence 12, Appl
587	30	56.6	401	2	US-10-232-858-62	Sequence 62, Appl	660	30	56.6	614	2	US-09-343-361-12	Sequence 378, App
588	30	56.6	401	2	US-10-232-858-63	Sequence 63, Appl	661	30	56.6	614	2	US-09-919-039-378	Sequence 2, Appl1
589	30	56.6	401	2	US-10-232-858-64	Sequence 64, Appl	662	30	56.6	614	4	PCT-US94-00119-2	Sequence 2, Appl1
590	30	56.6	401	2	US-10-232-858-65	Sequence 65, Appl	663	30	56.6	614	4	PCT-US95-10579-2	Sequence 7, Appl1
591	30	56.6	401	2	US-10-232-858-66	Sequence 66, Appl	664	30	56.6	614	4	PCT-US95-10579-7	Sequence 2, Appl1
592	30	56.6	401	2	US-09-338-063A-62	Sequence 62, Appl1	665	30	56.6	614	4	PCT-US95-10579-8	Sequence 8, Appl1
593	30	56.6	401	2	US-09-338-063A-62	Sequence 62, Appl1	666	30	56.6	614	4	PCT-US95-10579-9	Sequence 9, Appl1
594	30	56.6	401	2	US-09-338-063A-63	Sequence 63, Appl	667	30	56.6	615	2	US-08-840-713-35	Sequence 35, Appl
595	30	56.6	401	2	US-09-338-063A-64	Sequence 64, Appl	668	30	56.6	615	2	US-10-087-167-135	Sequence 135, App
596	30	56.6	401	2	US-09-338-063A-65	Sequence 65, Appl	669	30	56.6	616	2	US-09-388-743-14	Sequence 14, Appl
597	30	56.6	401	2	US-09-338-063A-65	Sequence 65, Appl	670	30	56.6	616	2	US-10-044-543-14	Sequence 14, Appl
598	30	56.6	401	2	US-09-338-063A-66	Sequence 66, Appl	671	30	56.6	617	2	US-08-840-713-37	Sequence 37, App
599	30	56.6	401	2	US-09-338-063A-66	Sequence 66, Appl	672	30	56.6	620	2	US-10-087-167-117	Sequence 137, App
600	30	56.6	426	2	US-08-840-713-6	Sequence 6, Appl1	673	30	56.6	627	1	US-08-295-814E-4	Sequence 4, Appl1
601	30	56.6	432	2	US-09-489-039A-13845	Sequence 13845, A	674	30	56.6	627	1	US-08-291-229-9-10	Sequence 10, Appl
602	30	56.6	442	2	US-09-902-540-13248	Sequence 13248, A	675	30	56.6	627	2	US-09-343-361-4	Sequence 4, Appl1
603	30	56.6	443	2	US-08-821-994-65	Sequence 65, Appl	676	30	56.6	627	4	PCT-US93-01959-4	Sequence 10, Appl
604	30	56.6	443	2	US-08-821-994-65	Sequence 65, Appl	677	30	56.6	627	4	PCT-US93-01959-4	Sequence 10, Appl
605	30	56.6	455	2	US-09-270-767-44741	Sequence 44741, A	678	30	56.6	632	1	US-08-295-814E-10	Sequence 10, Appl
606	30	56.6	459	1	US-08-870-518-4	Sequence 4, Appl1	679	30	56.6	632	4	US-09-343-361-10	Sequence 10, Appl
607	30	56.6	459	1	US-08-114-555A-2	Sequence 2, Appl1	680	30	56.6	632	4	PCT-US93-01959-10	Sequence 10, Appl
608	30	56.6	455	2	US-08-559-397A-2	Sequence 2, Appl1	681	30	56.6	634	2	US-09-949-016-7681	Sequence 7681, Ap
609	30	56.6	485	2	US-10-087-167-129	Sequence 129, App	682	30	56.6	639	2	US-09-248-796A-17567	Sequence 17567, A
610	30	56.6	488	1	US-08-933-750C-17	Sequence 17, Appl	683	30	56.6	658	2	US-08-953-040-9	Sequence 9, Appl1
611	30	56.6	488	2	US-09-234-613-17	Sequence 17, Appl	684	30	56.6	676	2	US-08-630-172-10	Sequence 10, Appl

685	30	56.6	676	2	US-09-375-419-10	Sequence 10, Appl	758	30	56.6	1428	2	US-09-964-956-33	Sequence 33, Appl
686	30	56.6	681	2	US-09-252-991A-25690	Sequence 25690, A	759	30	56.6	1551	2	US-09-949-016-6785	Sequence 6785, Ap
687	30	56.6	710	2	US-09-248-796A-14136	Sequence 14136, A	760	30	56.6	1587	2	US-09-845-583A-10	Sequence 10, Appl
688	30	56.6	721	2	US-09-949-016-11031	Sequence 11031, A	761	30	56.6	1587	2	US-09-561-709B-3	Sequence 3, Appl
689	30	56.6	725	2	US-09-902-540-13698	Sequence 13698, A	762	30	56.6	1725	2	US-09-562-702A-20	Sequence 20, Appl
690	30	56.6	733	2	US-09-248-796A-19530	Sequence 19530, A	763	30	56.6	1725	2	US-09-561-818A-20	Sequence 20, Appl
691	30	56.6	768	1	US-08-454-455-4	Sequence 4, Appl	764	30	56.6	1725	2	US-10-037-182-12	Sequence 12, Appl
692	30	56.6	769	1	US-08-789-078-1	Sequence 1, Appl	765	30	56.6	1761	2	US-09-561-709B-1	Sequence 1, Appl
693	30	56.6	769	1	US-08-752-633-1	Sequence 1, Appl	766	30	56.6	1765	2	US-09-562-702A-16	Sequence 16, Appl
694	30	56.6	769	1	US-08-476-062A-45	Sequence 45, Appl	767	30	56.6	1765	2	US-09-561-818A-16	Sequence 16, Appl
695	30	56.6	769	1	US-07-728-215-31	Sequence 31, Appl	768	30	56.6	1765	2	US-10-037-182-8	Sequence 8, Appl
696	30	56.6	769	2	US-08-938-085A-31	Sequence 31, Appl	769	30	56.6	1766	2	US-09-562-702A-14	Sequence 14, Appl
697	30	56.6	769	2	US-10-072-844-31	Sequence 31, Appl	770	30	56.6	1766	2	US-09-562-702A-18	Sequence 18, Appl
698	30	56.6	769	2	US-10-072-844-31	Sequence 31, Appl	771	30	56.6	1766	2	US-09-561-818A-14	Sequence 14, Appl
699	30	56.6	769	2	US-10-072-838-31	Sequence 31, Appl	772	30	56.6	1766	2	US-09-561-818A-18	Sequence 18, Appl
700	30	56.6	769	2	US-10-072-841A-31	Sequence 31, Appl	773	30	56.6	1766	2	US-09-561-709B-9	Sequence 9, Appl
701	30	56.6	769	2	US-10-219-611A-31	Sequence 31, Appl	774	30	56.6	1766	2	US-09-561-818A-4	Sequence 4, Appl
702	30	56.6	769	4	PCT-US95-04886-1	Sequence 45, Appl	775	30	56.6	1766	2	US-10-037-182-6	Sequence 6, Appl
703	30	56.6	803	2	US-09-063-035-2	Sequence 2, Appl	776	30	56.6	1766	2	US-10-037-182-10	Sequence 10, Appl
704	30	56.6	806	1	US-08-451-715A-6	Sequence 6, Appl	777	30	56.6	1792	2	US-09-561-818A-8	Sequence 8, Appl
705	30	56.6	881	1	US-08-333-901-1	Sequence 1, Appl	778	30	56.6	1792	2	US-09-561-818A-12	Sequence 12, Appl
706	30	56.6	881	1	US-08-456-582-1	Sequence 1, Appl	779	30	56.6	1798	2	US-09-845-583A-8	Sequence 8, Appl
707	30	56.6	881	1	US-08-898-789-1	Sequence 1, Appl	780	30	56.6	1798	2	US-09-561-709B-11	Sequence 11, Appl
708	30	56.6	881	2	US-09-039-555B-16	Sequence 16, Appl	781	30	56.6	1798	2	US-09-917-254-87	Sequence 87, Appl
709	30	56.6	881	2	US-09-324-258-7	Sequence 7, Appl	782	30	56.6	1799	2	US-09-845-583A-6	Sequence 6, Appl
710	30	56.6	930	2	US-08-953-040-2	Sequence 2, Appl	783	30	56.6	1800	2	US-09-561-818A-8	Sequence 8, Appl
711	30	56.6	939	2	US-09-583-110-3208	Sequence 3208, Ap	784	30	56.6	1816	2	US-09-561-818A-2	Sequence 2, Appl
712	30	56.6	939	2	US-09-107-433-4543	Sequence 4543, Ap	785	30	56.6	1816	2	US-09-561-818A-10	Sequence 10, Appl
713	30	56.6	940	2	US-09-078-347A-1	Sequence 1, Appl	786	30	56.6	1824	2	US-09-561-818A-6	Sequence 6, Appl
714	30	56.6	940	2	US-09-651-656-501	Sequence 101, App	787	30	56.6	1854	2	US-09-949-016-11625	Sequence 11625, A
715	30	56.6	940	2	US-09-650-855-101	Sequence 101, App	788	30	56.6	2368	1	US-08-198-446B-15	Sequence 15, Appl
716	30	56.6	941	2	US-09-489-039A-8607	Sequence 8607, Ap	789	30	56.6	2368	1	US-08-870-693-15	Sequence 15, Appl
717	30	56.6	944	2	US-09-446-285A-2	Sequence 2, Appl	790	30	56.6	2743	1	US-10-037-182-36	Sequence 36, Appl
718	30	56.6	944	2	US-09-949-016-7768	Sequence 7768, Ap	791	30	56.6	3200	1	US-08-477-451-8	Sequence 8, Appl
719	30	56.6	991	2	US-09-543-681A-7288	Sequence 7288, Ap	792	30	56.6	3647	2	US-09-949-016-10932	Sequence 10932, A
720	30	56.6	1059	2	US-09-134-513-2	Sequence 2, Appl	793	30	56.6	3665	2	US-10-037-182-2	Sequence 2, Appl
721	30	56.6	1059	2	US-09-134-000C-5600	Sequence 5600, Ap	794	30	56.6	3969	2	US-08-061-376-5	Sequence 1262, Ap
722	30	56.6	1079	1	US-08-484-588-8	Sequence 8, Appl	795	30	55.7	112	2	US-09-538-092-1262	Sequence 2058, A
723	30	56.6	1079	1	US-08-484-585-8	Sequence 8, Appl	796	29.5	55.7	129	1	US-08-152-019A-31	Sequence 31, Appl
724	30	56.6	1079	1	US-08-480-751-8	Sequence 8, Appl	797	29.5	55.7	219	1	US-08-460-309-18	Sequence 18, Appl
725	30	56.6	1079	1	US-08-480-751-8	Sequence 8, Appl	798	29.5	55.7	219	1	US-08-125-077-18	Sequence 18, Appl
726	30	56.6	1079	2	US-08-353-784-8	Sequence 8, Appl	799	29.5	55.7	219	1	US-09-150-133-7	Sequence 7, Appl
727	30	56.6	1079	2	US-08-484-719B-8	Sequence 8, Appl	800	29.5	55.7	376	2	US-09-150-141-7	Sequence 7, Appl
728	30	56.6	1079	2	US-08-484-719B-8	Sequence 8, Appl	801	29.5	55.7	376	2	US-09-374-493-7	Sequence 7, Appl
729	30	56.6	1085	1	US-08-485-588-5	Sequence 5, Appl	802	29.5	55.7	376	2	US-09-374-824-7	Sequence 7, Appl
730	30	56.6	1085	1	US-08-484-585-5	Sequence 5, Appl	803	29.5	55.7	376	2	US-09-374-92-7	Sequence 7, Appl
731	30	56.6	1085	1	US-08-480-751-5	Sequence 5, Appl	804	29.5	55.7	376	2	US-09-785-343-7	Sequence 7, Appl
732	30	56.6	1085	1	US-08-480-751-5	Sequence 5, Appl	805	29.5	55.7	376	2	US-10-411-976-7	Sequence 7, Appl
733	30	56.6	1085	2	US-08-353-784-5	Sequence 5, Appl	806	29.5	55.7	1572	2	US-09-562-702A-32	Sequence 32, Appl
734	30	56.6	1085	2	US-08-484-719B-5	Sequence 5, Appl	807	29.5	55.7	1572	2	US-09-561-818A-28	Sequence 28, Appl
735	30	56.6	1085	2	US-08-484-719B-5	Sequence 5, Appl	808	29.5	55.7	1572	2	US-10-037-182-20	Sequence 20, Appl
736	30	56.6	1085	2	US-08-484-719B-5	Sequence 5, Appl	809	29.5	55.7	1572	2	US-09-562-702A-24	Sequence 24, Appl
737	30	56.6	1101	2	US-10-104-047-2506	Sequence 2506, Ap	810	29.5	55.7	1576	2	US-10-037-182-18	Sequence 18, Appl
738	30	56.6	1106	2	US-09-949-016-9626	Sequence 9626, Ap	811	29.5	55.7	1576	2	US-09-561-818A-24	Sequence 24, Appl
739	30	56.6	1106	2	US-10-338-731-72	Sequence 22, Appl	812	29.5	55.7	1576	2	US-09-562-702A-28	Sequence 28, Appl
740	30	56.6	1125	2	US-09-949-016-10134	Sequence 10134, A	813	29.5	55.7	1604	2	US-09-562-702A-30	Sequence 30, Appl
741	30	56.6	1125	2	US-10-053-662A-2	Sequence 2, Appl	814	29.5	55.7	1605	2	US-09-561-818A-26	Sequence 26, Appl
742	30	56.6	1196	2	US-08-144-121-4	Sequence 4, Appl	815	29.5	55.7	1605	2	US-10-037-182-12	Sequence 12, Appl
743	30	56.6	1196	1	US-08-735-893-4	Sequence 4, Appl	816	29.5	55.7	1605	2	US-09-561-818A-2	Sequence 2, Appl
744	30	56.6	1196	1	US-10-841-139-4	Sequence 4, Appl	817	29.5	55.7	1609	2	US-09-562-702A-22	Sequence 22, Appl
745	30	56.6	1239	2	US-09-248-796A-18091	Sequence 18091, A	818	29.5	55.7	1609	2	US-09-561-818A-22	Sequence 22, Appl
746	30	56.6	1239	2	US-09-949-016-6885	Sequence 6885, Ap	819	29.5	55.7	1609	2	US-09-562-702A-26	Sequence 26, Appl
747	30	56.6	1239	2	US-09-198-452A-98	Sequence 98, Appl	820	29.5	55.7	1609	2	US-10-037-182-14	Sequence 14, Appl
748	30	56.6	1239	2	US-09-107-532A-6220	Sequence 6220, Ap	821	29.5	55.7	1617	2	US-09-562-702A-18	Sequence 18, Appl
749	30	56.6	1239	2	US-09-583-110-5637	Sequence 5637, Ap	822	29.5	55.7	1617	2	US-09-562-702A-18	Sequence 18, Appl
750	30	56.6	1239	2	US-09-107-433-4267	Sequence 4267, Ap	823	29.5	55.7	1617	2	US-09-562-702A-18	Sequence 18, Appl
751	30	56.6	1283	2	US-09-949-016-7130	Sequence 7130, Ap	824	29.5	55.7	1617	2	US-09-562-702A-18	Sequence 18, Appl
752	30	56.6	1342	2	US-09-561-709B-13	Sequence 13, Appl	825	29.5	55.7	1617	2	US-09-562-702A-18	Sequence 18, Appl
753	30	56.6	1400	1	US-08-080-235-7	Sequence 7, Appl	826	29.5	55.7	1617	2	US-09-562-702A-18	Sequence 18, Appl
754	30	56.6	1400	1	US-08-465-713-7	Sequence 7, Appl	827	29.5	55.7	1617	2	US-09-562-702A-18	Sequence 18, Appl
755	30	56.6	1400	4	PCT-US93-05857-7	Sequence 7, Appl	828	29.5	55.7	1617	2	US-09-562-702A-18	Sequence 18, Appl
756	30	56.6	1410	2	US-09-438-185A-84	Sequence 84, Appl	829	29.5	55.7	1617	2	US-09-562-702A-18	Sequence 18, Appl
757	30	56.6	1410	2	US-09-438-185A-84	Sequence 84, Appl	830	29.5	55.7	1617	2	US-09-562-702A-18	Sequence 18, Appl

831	29	54.7	26	1	US-08-620-151-7	Sequence 7, Appl1	904	29	54.7	141	2	US-09-248-796A-19288	Sequence 19288, A
832	29	54.7	26	1	US-08-620-151-101	Sequence 101, App	905	29	54.7	142	2	US-09-902-540-13555	Sequence 13555, A
833	29	54.7	28	1	US-08-616-857-3	Sequence 3, Appl1	906	29	54.7	146	2	US-09-523-323-58	Sequence 58, Appl1
834	29	54.7	34	2	US-09-661-711A-29	Sequence 29, Appl1	907	29	54.7	146	2	US-09-248-796A-23467	Sequence 23467, A
835	29	54.7	35	2	US-09-324-455-15	Sequence 15, Appl1	908	29	54.7	147	2	US-09-527-336A-19	Sequence 19, Appl1
836	29	54.7	35	1	US-08-466-033-71	Sequence 71, Appl1	909	29	54.7	147	2	US-09-756-854-19	Sequence 19, Appl1
837	29	54.7	36	1	US-08-466-033-77	Sequence 77, Appl1	910	29	54.7	147	2	US-10-041-574-19	Sequence 19, Appl1
838	29	54.7	36	1	US-08-444-733-71	Sequence 71, Appl1	911	29	54.7	147	2	US-09-095-094-19	Sequence 6, Appl1
839	29	54.7	36	1	US-08-444-733-77	Sequence 77, Appl1	912	29	54.7	148	2	US-09-830-217-6	Sequence 6, Appl1
840	29	54.7	36	1	US-08-464-134-71	Sequence 71, Appl1	913	29	54.7	148	2	US-09-902-540-12436	Sequence 12436, A
841	29	54.7	36	1	US-08-464-134-77	Sequence 77, Appl1	914	29	54.7	148	2	US-09-902-540-12436	Sequence 12436, A
842	29	54.7	36	1	US-08-461-361-71	Sequence 71, Appl1	915	29	54.7	148	2	US-09-605-703B-2002	Sequence 2002, Ap
843	29	54.7	36	1	US-08-461-361-77	Sequence 77, Appl1	916	29	54.7	148	2	US-09-270-767-40706	Sequence 40706, A
844	29	54.7	36	1	US-08-485-910-71	Sequence 71, Appl1	917	29	54.7	157	2	US-09-270-767-55922	Sequence 55922, A
845	29	54.7	36	1	US-08-485-910-77	Sequence 77, Appl1	918	29	54.7	157	2	US-09-270-767-55922	Sequence 55922, A
846	29	54.7	36	4	PCT-US95-06266-55	Sequence 55, Appl1	919	29	54.7	159	2	US-09-270-767-51373	Sequence 51373, A
847	29	54.7	36	4	PCT-US95-06266-61	Sequence 61, Appl1	920	29	54.7	155	2	US-09-706-722A-3	Sequence 7, Appl1
848	29	54.7	36	4	PCT-US95-06266-61	Sequence 61, Appl1	921	29	54.7	155	2	US-09-706-722A-3	Sequence 7, Appl1
849	29	54.7	43	2	US-09-131-750-24	Sequence 24, Appl1	922	29	54.7	174	2	US-09-489-039A-13010	Sequence 13010, A
850	29	54.7	44	1	US-08-208-108-8	Sequence 8, Appl1	923	29	54.7	174	2	US-09-903-456-40	Sequence 40, Appl1
851	29	54.7	44	1	US-08-466-033-73	Sequence 73, Appl1	924	29	54.7	178	2	US-09-624-670-39	Sequence 39, Appl1
852	29	54.7	44	1	US-08-466-033-73	Sequence 73, Appl1	925	29	54.7	178	2	US-09-145-828A-24	Sequence 24, Appl1
853	29	54.7	44	1	US-08-464-134-73	Sequence 73, Appl1	926	29	54.7	178	2	US-09-903-456-26	Sequence 26, Appl1
854	29	54.7	44	1	US-08-461-361-73	Sequence 73, Appl1	927	29	54.7	180	2	US-09-624-670-25	Sequence 25, Appl1
855	29	54.7	44	1	US-08-461-361-73	Sequence 73, Appl1	928	29	54.7	180	2	US-09-342-325C-56	Sequence 56, Appl1
856	29	54.7	44	4	US-08-485-910-73	Sequence 57, Appl1	929	29	54.7	180	2	US-10-244-367-56	Sequence 36156, A
857	29	54.7	56	1	US-08-466-033-81	Sequence 81, Appl1	930	29	54.7	182	1	US-09-270-767-43121	Sequence 43121, A
858	29	54.7	56	1	US-08-444-733-81	Sequence 81, Appl1	931	29	54.7	184	1	US-08-464-339A-2	Sequence 2, Appl1
859	29	54.7	56	1	US-08-464-134-81	Sequence 81, Appl1	932	29	54.7	184	1	US-08-468-847B-18	Sequence 18, Appl1
860	29	54.7	56	1	US-08-461-361-81	Sequence 81, Appl1	933	29	54.7	184	2	US-09-706-722A-2	Sequence 2, Appl1
861	29	54.7	56	2	US-08-485-910-81	Sequence 81, Appl1	934	29	54.7	184	2	US-09-270-767-31979	Sequence 31979, A
862	29	54.7	56	2	US-09-732-210-912	Sequence 912, App	935	29	54.7	184	2	US-09-270-767-47196	Sequence 47196, A
863	29	54.7	56	2	US-09-732-210-912	Sequence 912, App	936	29	54.7	184	4	US-09-949-016-6782	Sequence 6782, Ap
864	29	54.7	60	2	PCT-US95-06266-65	Sequence 65, Appl1	937	29	54.7	192	1	PCT-US94-14388-2	Sequence 2, Appl1
865	29	54.7	60	2	US-09-248-796A-21998	Sequence 21998, A	938	29	54.7	192	1	US-07-949-812-3	Sequence 3, Appl1
866	29	54.7	60	2	US-09-248-796A-24962	Sequence 24962, A	939	29	54.7	192	2	US-08-981-992-65	Sequence 65, Appl1
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868	29	54.7	63	2	US-09-248-796A-23429	Sequence 23429, A	941	29	54.7	192	2	US-09-310-685-17	Sequence 17, Appl1
869	29	54.7	63	2	US-09-248-796A-23429	Sequence 23429, A	942	29	54.7	192	2	US-09-489-039A-9268	Sequence 9268, Ap
870	29	54.7	69	2	US-09-621-976-7341	Sequence 104, App	943	29	54.7	198	2	US-09-270-767-43282	Sequence 25, Appl1
871	29	54.7	69	2	US-09-513-999C-5197	Sequence 7341, Ap	944	29	54.7	198	2	US-09-981-087A-25	Sequence 25, Appl1
872	29	54.7	70	2	US-09-248-796A-26159	Sequence 5197, Ap	945	29	54.7	198	2	US-09-978-382A-25	Sequence 25, Appl1
873	29	54.7	72	2	US-09-107-433-3855	Sequence 22806, A	946	29	54.7	198	2	US-09-978-729A-25	Sequence 25, Appl1
874	29	54.7	72	2	US-09-107-433-3855	Sequence 26159, Ap	947	29	54.7	198	2	US-09-978-729A-25	Sequence 25, Appl1
875	29	54.7	83	2	US-09-270-767-48343	Sequence 48343, A	948	29	54.7	201	2	US-09-322-478-10	Sequence 10, Appl1
876	29	54.7	86	1	US-08-466-033-75	Sequence 75, Appl1	949	29	54.7	201	2	US-09-489-039A-8533	Sequence 8533, Ap
877	29	54.7	86	1	US-08-464-134-75	Sequence 75, Appl1	950	29	54.7	201	2	US-09-586-106D-10	Sequence 10, Appl1
878	29	54.7	86	1	US-08-461-361-75	Sequence 75, Appl1	951	29	54.7	201	2	US-10-799-870-10	Sequence 10, Appl1
879	29	54.7	86	4	US-08-485-910-75	Sequence 59, Appl1	952	29	54.7	202	2	US-09-949-016-10546	Sequence 10546, A
880	29	54.7	86	4	PCT-US95-06266-59	Sequence 59, Appl1	953	29	54.7	213	2	US-09-902-540-15826	Sequence 15826, A
881	29	54.7	89	2	US-09-732-210-942	Sequence 942, App	954	29	54.7	216	2	US-09-270-767-43641	Sequence 43641, A
882	29	54.7	93	2	US-09-270-767-33290	Sequence 33290, A	955	29	54.7	218	2	US-09-270-767-51022	Sequence 51022, A
883	29	54.7	93	2	US-09-270-767-48507	Sequence 48507, A	956	29	54.7	219	2	US-09-903-456-38	Sequence 38, Appl1
884	29	54.7	93	2	US-09-513-999C-7374	Sequence 7374, Ap	957	29	54.7	219	2	US-09-624-670-37	Sequence 37, Appl1
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886	29	54.7	100	2	US-09-270-767-32986	Sequence 48203, A	959	29	54.7	220	2	US-09-270-767-51012	Sequence 51012, A
887	29	54.7	102	2	US-09-314-844F-6	Sequence 6, Appl1	960	29	54.7	221	1	US-07-949-812-2	Sequence 2, Appl1
888	29	54.7	103	2	US-09-372-407-4	Sequence 37048, A	961	29	54.7	221	1	US-09-540-226-4447	Sequence 44157, A
889	29	54.7	107	2	US-09-270-767-37048	Sequence 37048, A	962	29	54.7	222	2	US-09-270-767-41517	Sequence 25449, A
890	29	54.7	107	2	US-09-270-767-53265	Sequence 53265, A	963	29	54.7	224	1	US-08-616-857-2	Sequence 2, Appl1
891	29	54.7	109	2	US-09-248-796A-18639	Sequence 18639, A	964	29	54.7	224	2	US-09-252-991A-25249	Sequence 25249, A
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894	29	54.7	118	2	US-09-248-796A-19729	Sequence 19729, A	967	29	54.7	233	2	US-09-270-767-32684	Sequence 32684, Ap
895	29	54.7	119	2	US-09-270-767-39748	Sequence 39748, A	968	29	54.7	233	2	US-09-270-767-47901	Sequence 47901, A
896	29	54.7	119	2	US-09-270-767-5965	Sequence 54965, A	969	29	54.7	238	2	US-09-257-179-80	Sequence 14, App
897	29	54.7	121	2	US-09-717-321A-28	Sequence 28, Appl1	970	29	54.7	240	2	US-09-489-847-143	Sequence 143, App
898	29	54.7	121	2	US-09-717-321A-29	Sequence 29, Appl1	971	29	54.7	240	2	US-09-270-767-45512	Sequence 45512, A
899	29	54.7	125	2	US-08-959-382-4	Sequence 4, Appl1	972	29	54.7	244	2	US-09-135-782-4	Sequence 4, Appl1
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901	29	54.7	127	2	US-09-107-532A-7074	Sequence 7074, Ap	974	29	54.7	247	2	US-07-648-796A-2	Sequence 2, Appl1
902	29	54.7	132	2	US-09-134-000C-4075	Sequence 4075, Ap	975	29	54.7	247	2	US-09-489-039A-11251	Sequence 11251, A
903	29	54.7	135	2	US-09-513-999C-5846	Sequence 5846, Ap	976	29	54.7	253	2	US-09-042-785A-4	Sequence 4, Appl1

977 29 54.7 254 2 US-09-422-680A-6 Sequence 6, Appl
978 29 54.7 266 2 US-09-248-796A-17346 Sequence 17346, A
979 29 54.7 270 2 US-09-248-796A-18267 Sequence 18267, A
980 29 54.7 271 1 US-08-152-019A-28 Sequence 28, Appl
981 29 54.7 273 2 US-09-270-767-566A2 Sequence 566A2, A
982 29 54.7 273 2 US-09-248-796A-24866 Sequence 24866, A
983 29 54.7 274 2 US-09-248-796A-23439 Sequence 23439, A
984 29 54.7 275 2 US-09-270-767-33842 Sequence 33842, A
985 29 54.7 275 2 US-09-270-767-49059 Sequence 49059, A
986 29 54.7 276 2 US-08-981-332-43 Sequence 43, Appl
987 29 54.7 276 2 US-09-908-332-43 Sequence 43, Appl
988 29 54.7 278 1 US-08-460-309-13 Sequence 13, Appl
989 29 54.7 278 1 US-08-125-077-13 Sequence 29, Appl
990 29 54.7 279 1 US-08-152-019A-29 Sequence 21, Appl
991 29 54.7 280 2 US-09-145-828A-21 Sequence 28, Appl
992 29 54.7 280 2 US-09-903-456-28 Sequence 27, Appl
993 29 54.7 280 2 US-09-624-670-27 Sequence 59, Appl
994 29 54.7 286 2 US-09-903-456-59 Sequence 58, Appl
995 29 54.7 286 2 US-09-624-670-58 Sequence 17, Appl
996 29 54.7 289 2 US-09-145-828A-17 Sequence 21, Appl
997 29 54.7 289 2 US-09-903-456-21 Sequence 23, Appl
998 29 54.7 289 2 US-09-903-456-34 Sequence 34, Appl
999 29 54.7 289 2 US-09-624-670-20 Sequence 20, Appl
1000 29 54.7 289 2 US-09-624-670-33 Sequence 33, Appl

ALIGNMENTS

RESULT 1
US-08-159-339A-1170
Sequence 1170, Application US/08159339A
Patent No. 6037135
GENERAL INFORMATION:
APPLICANT: Kubo, Ralph T.
APPLICANT: Grey, Howard M.
APPLICANT: Sette, Alessandro
APPLICANT: Celis, Esrehan
TITLE OF INVENTION: HLA Binding peptides and Their
TITLE OF INVENTION: Uses
NUMBER OF SEQUENCES: 1254
CORRESPONDENCE ADDRESSES:
ADDRESSEE: Townsend and Townsend and Crew LLP
STREET: Two Embarcadero Center, Eighth Floor
CITY: San Francisco
STATE: CA
COUNTRY: USA
ZIP: 94111-3834
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
OPERATING SYSTEM: DOS
SOFTWARE: FastSeq for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/159,339A
FILING DATE: 29-NOV-1993
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/926,666
FILING DATE: 07-AUG-1992
APPLICATION NUMBER: US 08/027,746
FILING DATE: 05-MAR-1993
APPLICATION NUMBER: US 08/103,396
FILING DATE: 06-AUG-1993
ATTORNEY/AGENT INFORMATION:
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REGISTRATION NUMBER: 32,762
REFERENCE/DOCKET NUMBER: 018623-005030US
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 576-0200
TELEFAX: (415) 576-0300
TELEX:
INFORMATION FOR SEQ ID NO: 1170:

SEQUENCE CHARACTERISTICS:
LENGTH: 11 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-08-159-339A-1170

Query Match 100.0%; Score 53; DB 2; Length 11;
Best Local Similarity 100.0%; Pred. No. 0.015;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 YAVCDKCLK 9
Db 2 YAVCDKCLK 10

RESULT 2
US-10-612-818-4
Sequence 4, Application US/10612818
Patent No. 6933123
GENERAL INFORMATION:
APPLICANT: Impact Diagnostics
TITLE OF INVENTION: Impact Diagnostics
TITLE OF INVENTION: Peptides from the E2, E6 and E7 Proteins of Human Papillomavirus
TITLE OF INVENTION: 18 for Detecting and/or Diagnosing Cervical and Other Human Papill
TITLE OF INVENTION: Associated Cancers
FILE REFERENCE: 3352-2-2
CURRENT APPLICATION NUMBER: US/10/612,818
CURRENT FILING DATE: 2003-07-01
PRIOR APPLICATION NUMBER: US 60/394,172
PRIOR FILING DATE: 2002-07-02
PRIOR APPLICATION NUMBER: US 09/828,645
PRIOR FILING DATE: 2001-04-05
NUMBER OF SEQ ID NOS: 8
SOFTWARE: PatentIn version 3.1
SEQ ID NO 4
LENGTH: 22
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Derived from the E6 early coding region of HPV 16
US-10-612-818-4

Query Match 100.0%; Score 53; DB 2; Length 22;
Best Local Similarity 100.0%; Pred. No. 0.028;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 YAVCDKCLK 9
Db 6 YAVCDKCLK 14

RESULT 3
US-09-701-080C-18
Sequence 18, Application US/09701080C
Patent No. 6864054
GENERAL INFORMATION:
APPLICANT: INSTITUTE OF MOLECULAR AND CELL BIOLOGY
TITLE OF INVENTION: POLYPEPTIDES FROM CREB BINDING PROTEIN AND RELATED PROTEIN P300 FC
TITLE OF INVENTION: TRANSCRIPTIONAL REGULATION
FILE REFERENCE: N73477C GCM
CURRENT APPLICATION NUMBER: US/09/701,080C
CURRENT FILING DATE: 2001-02-27
PRIOR APPLICATION NUMBER: GB 9811303.8
PRIOR FILING DATE: 1998-05-26
PRIOR APPLICATION NUMBER: GB 9900157.0
PRIOR FILING DATE: 1999-01-05
NUMBER OF SEQ ID NOS: 36
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 18
LENGTH: 151
TYPE: PRT
INFORMATION FOR SEQ ID NO: 1170:

ORGANISM: Human Papillomavirus
US-09-701-080C-18

Query Match 100.0%; Score 53; DB 2; Length 151;
Best Local Similarity 100.0%; Pred. No. 0.17;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 YAVCDKCLK 9
DB 60 YAVCDKCLK 68

RESULT 4

US-09-980-523A-2
Sequence 2, Application US/09980523A
Patent No. 6783763
GENERAL INFORMATION:
APPLICANT: CHOPPIN, JEANNINE
APPLICANT: BOURGAULT VILLADA, ISABELLE
APPLICANT: GUILLET, JEAN-GERARD
APPLICANT: CONNAN, FRANCINE
APPLICANT: FERRIES, ESTELLE
TITLE OF INVENTION: POLYPEPTIDIC PROTEIN FRAGMENTS OF THE E6 AND E7
TITLE OF INVENTION: PROTEINS OF HPV, THEIR PRODUCTION AND THEIR USE
FILE REFERENCE: WO81 AO INS
CURRENT APPLICATION NUMBER: US/09/980,523A
PRIOR FILING DATE: 2002-04-29
PRIOR APPLICATION NUMBER: PCT/FR00/01513
PRIOR FILING DATE: 2000-05-31
PRIOR APPLICATION NUMBER: FR 99/07012
NUMBER OF SEQ ID NOS: 24
SOFTWARE: Patent In Ver. 2.1
SEQ ID NO 2
LENGTH: 158
TYPE: PRT
ORGANISM: Human Papillomavirus
US-09-980-523A-2

Query Match 100.0%; Score 53; DB 2; Length 158;
Best Local Similarity 100.0%; Pred. No. 0.17;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 YAVCDKCLK 9
DB 67 YAVCDKCLK 75

RESULT 5

US-08-316-239B-3
Sequence 3, Application US/08316239B
Patent No. 5679509
GENERAL INFORMATION:
APPLICANT: Wheeler, Cosette M.
APPLICANT: Parmenter, Cheryl A.
TITLE OF INVENTION: Methods and a Diagnostic Aid for
TITLE OF INVENTION: Distinguishing a Subset of HPV that is Associated with an
TITLE OF INVENTION: Increased Risk of Developing Cervical Dysplasia and
TITLE OF INVENTION: Cervical Cancer
NUMBER OF SEQUENCES: 4
CORRESPONDENCE ADDRESS:
ADDRESSEE: Jagtiani & Associates
STREET: 6126 Rocky Way Court
CITY: Centreville
STATE: VA
COUNTRY: USA
ZIP: 20120-3400
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/316,239B
FILING DATE: 30-SEP-1994
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Jagtiani, Ajay A.
REGISTRATION NUMBER: 35,205
REFERENCE/DOCKET NUMBER: UNME-0001
TELECOMMUNICATION INFORMATION:
TELEPHONE: (703) 817-9453
TELEFAX: (703) 803-9387
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 162 amino acids
TYPE: amino acid
STRANDEDNESS: not relevant
TOPOLOGY: not relevant
MOLECULE TYPE: protein
HYPOTHETICAL: NO
US-08-316-239B-3

Query Match 100.0%; Score 53; DB 1; Length 162;
Best Local Similarity 100.0%; Pred. No. 0.18;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 YAVCDKCLK 9
DB 67 YAVCDKCLK 75

RESULT 6

US-08-316-239B-4
Sequence 4, Application US/08316239B
Patent No. 5679509
GENERAL INFORMATION:
APPLICANT: Wheeler, Cosette M.
APPLICANT: Parmenter, Cheryl A.
TITLE OF INVENTION: Methods and a Diagnostic Aid for
TITLE OF INVENTION: Distinguishing a Subset of HPV that is Associated with an
TITLE OF INVENTION: Increased Risk of Developing Cervical Dysplasia and
TITLE OF INVENTION: Cervical Cancer
NUMBER OF SEQUENCES: 4
CORRESPONDENCE ADDRESS:
ADDRESSEE: Jagtiani & Associates
STREET: 6126 Rocky Way Court
CITY: Centreville
STATE: VA
COUNTRY: USA
ZIP: 20120-3400
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/316,239B
FILING DATE: 30-SEP-1994
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Jagtiani, Ajay A.
REGISTRATION NUMBER: 35,205
REFERENCE/DOCKET NUMBER: UNME-0001
TELECOMMUNICATION INFORMATION:
TELEPHONE: (703) 817-9453
TELEFAX: (703) 803-9387
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 162 amino acids
TYPE: amino acid
STRANDEDNESS: not relevant
TOPOLOGY: not relevant
MOLECULE TYPE: protein
HYPOTHETICAL: NO

US-08-316-239B-4

Query Match 100.0%; Score 53; DB 1; Length 162;
Best Local Similarity 100.0%; Pred. No. 0.18;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 YAVCDKCLK 9
Db 67 YAVCDKCLK 75

RESULT 7

US-08-860-165-12
; Sequence 12, Application US/08860165A
; Patent No. 6004557
; GENERAL INFORMATION:
; APPLICANT: EDWARDS, Stirling John
; APPLICANT: COX, John Cooper
; APPLICANT: WEBB, Elizabeth Ann
; APPLICANT: FRAZER, Ian
; TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
; FILE REFERENCE: 17227/130
; CURRENT APPLICATION NUMBER: US/08/860,165A
; EARLIER FILING DATE: 1997-09-22
; EARLIER APPLICATION NUMBER: PCT/AU95/00868
; EARLIER FILING DATE: 1995-12-20
; EARLIER APPLICATION NUMBER: AU PN0157
; EARLIER FILING DATE: 1994-12-20
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: Patentln Ver. 2.0
; SEQ ID NO 12
; LENGTH: 172
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Gene Fusion
US-08-860-165-12

Query Match 100.0%; Score 53; DB 2; Length 172;
Best Local Similarity 100.0%; Pred. No. 0.19;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 YAVCDKCLK 9
Db 5 YAVCDKCLK 13

RESULT 8

US-08-860-165-14
; Sequence 14, Application US/08860165A
; Patent No. 6004557
; GENERAL INFORMATION:
; APPLICANT: EDWARDS, Stirling John
; APPLICANT: COX, John Cooper
; APPLICANT: WEBB, Elizabeth Ann
; APPLICANT: FRAZER, Ian
; TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
; FILE REFERENCE: 17227/130
; CURRENT APPLICATION NUMBER: US/08/860,165A
; CURRENT FILING DATE: 1997-09-22
; EARLIER APPLICATION NUMBER: PCT/AU95/00868
; EARLIER FILING DATE: 1995-12-20
; EARLIER APPLICATION NUMBER: AU PN0157
; EARLIER FILING DATE: 1994-12-20
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: Patentln Ver. 2.0
; SEQ ID NO 14
; LENGTH: 172
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Gene Fusion
US-08-860-165-14

Query Match 100.0%; Score 53; DB 2; Length 172;
Best Local Similarity 100.0%; Pred. No. 0.19;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 YAVCDKCLK 9
Db 136 YAVCDKCLK 144

RESULT 9

US-09-359-382-12
; Sequence 12, Application US/09359382
; Patent No. 6306397
; GENERAL INFORMATION:
; APPLICANT: EDWARDS, Stirling John
; APPLICANT: COX, John Cooper
; APPLICANT: WEBB, Elizabeth Ann
; APPLICANT: FRAZER, Ian
; TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
; FILE REFERENCE: 017227/0148
; CURRENT APPLICATION NUMBER: US/09/359,382
; CURRENT FILING DATE: 1999-07-23
; EARLIER APPLICATION NUMBER: US 08/860,165
; EARLIER FILING DATE: 1997-09-22
; EARLIER APPLICATION NUMBER: PCT/AU95/00868
; EARLIER FILING DATE: 1995-12-20
; EARLIER APPLICATION NUMBER: AU PN0157/94
; EARLIER FILING DATE: 1994-12-20
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: Patentln Ver. 2.0
; SEQ ID NO 12
; LENGTH: 172
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-09-359-382-12

Query Match 100.0%; Score 53; DB 2; Length 172;
Best Local Similarity 100.0%; Pred. No. 0.19;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 YAVCDKCLK 9
Db 5 YAVCDKCLK 13

RESULT 10

US-09-359-382-14
; Sequence 14, Application US/09359382
; Patent No. 6306397
; GENERAL INFORMATION:
; APPLICANT: EDWARDS, Stirling John
; APPLICANT: COX, John Cooper
; APPLICANT: WEBB, Elizabeth Ann
; APPLICANT: FRAZER, Ian
; TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
; FILE REFERENCE: 017227/0148
; CURRENT APPLICATION NUMBER: US/09/359,382
; CURRENT FILING DATE: 1999-07-23
; EARLIER APPLICATION NUMBER: US 08/860,165
; EARLIER FILING DATE: 1997-09-22
; EARLIER APPLICATION NUMBER: PCT/AU95/00868
; EARLIER FILING DATE: 1995-12-20
; EARLIER APPLICATION NUMBER: AU PN0157/94
; EARLIER FILING DATE: 1994-12-20
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: Patentln Ver. 2.0
; SEQ ID NO 14
; LENGTH: 172
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-09-359-382-14

Query Match 100.0%; Score 53; DB 2; Length 172;
Best Local Similarity 100.0%; Pred. No. 0.19;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 YAVCDKCLK 9
|||
Db 136 YAVCDKCLK 144

RESULT 11
US-09-462-993-1
; Sequence 1, Application US/09462993
; Patent No. 6884786
; GENERAL INFORMATION:
; APPLICANT: KIENY, Marie-Paule
; APPLICANT: BALLOU, Jean-Marc
; APPLICANT: BIZOUARD, Nadine
; TITLE OF INVENTION: ANTITUMORAL COMPOSITION BASED ON IMMUNOGENIC
; FILE REFERENCE: 017753-122
; CURRENT APPLICATION NUMBER: US/09/462,993
; PRIOR FILING DATE: 2000-04-17
; PRIOR APPLICATION NUMBER: PCT/FR98/01576
; PRIOR FILING DATE: 1998-07-17
; PRIOR APPLICATION NUMBER: FR 97/09152
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: PatentIn Ver. 2.2
; SEQ ID NO 1
; LENGTH: 243
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Derived from
; OTHER INFORMATION: human papillomavirus, strain HPV-16, E6 protein
; OTHER INFORMATION: fused E protein signals, clone E6*TMF.
US-09-462-993-1

Query Match 100.0%; Score 53; DB 2; Length 243;
Best Local Similarity 100.0%; Pred. No. 0.26;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 YAVCDKCLK 9
|||
Db 95 YAVCDKCLK 103

RESULT 12
US-08-860-165-10
; Sequence 10, Application US/08860165A
; Patent No. 6004557
; GENERAL INFORMATION:
; APPLICANT: EDWARDS, Stirling John
; APPLICANT: COX, John Cooper
; APPLICANT: WEBB, Elizabeth Ann
; APPLICANT: FRAZER, Ian
; TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
; FILE REFERENCE: 17227/130
; CURRENT APPLICATION NUMBER: US/08/860,165A
; PRIOR FILING DATE: 1997-09-22
; EARLIER APPLICATION NUMBER: PCT/AU95/00868
; EARLIER FILING DATE: 1995-12-20
; EARLIER APPLICATION NUMBER: AU PNO157
; EARLIER FILING DATE: 1994-12-20
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 10
; LENGTH: 266
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Gene Fusion
US-08-860-165-10

Query Match 100.0%; Score 53; DB 2; Length 266;
Best Local Similarity 100.0%; Pred. No. 0.28;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 YAVCDKCLK 9
|||
Db 67 YAVCDKCLK 75

RESULT 13
US-09-359-382-10
; Sequence 10, Application US/09359382
; Patent No. 6306397
; GENERAL INFORMATION:
; APPLICANT: EDWARDS, Stirling John
; APPLICANT: COX, John Cooper
; APPLICANT: WEBB, Elizabeth Ann
; APPLICANT: FRAZER, Ian
; TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
; FILE REFERENCE: 017227/0148
; CURRENT APPLICATION NUMBER: US/09/359,382
; PRIOR FILING DATE: 1999-07-23
; EARLIER APPLICATION NUMBER: US 08/860,165
; EARLIER FILING DATE: 1997-09-22
; EARLIER APPLICATION NUMBER: PCT/AU95/00868
; EARLIER FILING DATE: 1995-12-20
; EARLIER APPLICATION NUMBER: AU PNO157/94
; EARLIER FILING DATE: 1994-12-20
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 10
; LENGTH: 266
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-09-359-382-10

Query Match 100.0%; Score 53; DB 2; Length 266;
Best Local Similarity 100.0%; Pred. No. 0.28;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 YAVCDKCLK 9
|||
Db 67 YAVCDKCLK 75

RESULT 14
US-09-367-309A-1
; Sequence 1, Application US/09367309A
; Patent No. 6428807
; GENERAL INFORMATION:
; APPLICANT: MACFARLAN, RODERICK I.
; APPLICANT: MALLIAROS, JIM
; TITLE OF INVENTION: CHELATING IMMUNOSTIMULATING COMPLEXES
; FILE REFERENCE: 017227/0149
; CURRENT APPLICATION NUMBER: US/09/367,309A
; PRIOR FILING DATE: 1999-08-11
; PRIOR APPLICATION NUMBER: PCT/AU98/00080
; PRIOR FILING DATE: 1998-02-13
; PRIOR APPLICATION NUMBER: AU PO 5178
; PRIOR FILING DATE: 1997-02-19
; NUMBER OF SEQ ID NOS: 6
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
; LENGTH: 266
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-09-367-309A-1

Query Match 100.0%; Score 53; DB 2; Length 266;
Best Local Similarity 100.0%; Pred. No. 0.28;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 YAVCDKCLK 9
Db 67 YAVCDKCLK 75

RESULT 15
US-09-485-885-4
; Sequence 4, Application US/09485885
; Patent No. 6342224
; GENERAL INFORMATION:
; APPLICANT: Bruck, Claudine
; APPLICANT: Cabazon Silva, Teresa
; APPLICANT: Delisse, Anne-Marie Eva Fernande
; APPLICANT: Gerard, Catherine Marie Ghislaine
; APPLICANT: Lombardo-Bencheikh, Angela
; TITLE OF INVENTION: Vaccine
; FILE REFERENCE: B45107
; CURRENT APPLICATION NUMBER: US/09/485,885
; CURRENT FILING DATE: 2000-02-18
; PRIOR APPLICATION NUMBER: PCT/EP98/05285
; PRIOR FILING DATE: 1998-08-17
; PRIOR APPLICATION NUMBER: GB 9717953.5
; PRIOR FILING DATE: 1997-08-22
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 4
; LENGTH: 273
; TYPE: PRT
; ORGANISM: Homo sapien
US-09-485-885-4

Query Match 100.0%; Score 53; DB 2; Length 273;
Best Local Similarity 100.0%; Pred. No. 0.29;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 YAVCDKCLK 9
Db 173 YAVCDKCLK 181

RESULT 16
US-09-485-885-10
; Sequence 10, Application US/09485885
; Patent No. 6342224
; GENERAL INFORMATION:
; APPLICANT: Bruck, Claudine
; APPLICANT: Cabazon Silva, Teresa
; APPLICANT: Delisse, Anne-Marie Eva Fernande
; APPLICANT: Gerard, Catherine Marie Ghislaine
; APPLICANT: Lombardo-Bencheikh, Angela
; TITLE OF INVENTION: Vaccine
; FILE REFERENCE: B45107
; CURRENT APPLICATION NUMBER: US/09/485,885
; CURRENT FILING DATE: 2000-02-18
; PRIOR APPLICATION NUMBER: PCT/EP98/05285
; PRIOR FILING DATE: 1998-08-17
; PRIOR APPLICATION NUMBER: GB 9717953.5
; PRIOR FILING DATE: 1997-08-22
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 10
; LENGTH: 292
; TYPE: PRT
; ORGANISM: Homo sapien
US-09-485-885-10

Query Match 100.0%; Score 53; DB 2; Length 292;
Best Local Similarity 100.0%; Pred. No. 0.31;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 YAVCDKCLK 9
Db 192 YAVCDKCLK 200

RESULT 17
US-09-485-885-6
; Sequence 6, Application US/09485885
; Patent No. 6342224
; GENERAL INFORMATION:
; APPLICANT: Bruck, Claudine
; APPLICANT: Cabazon Silva, Teresa
; APPLICANT: Delisse, Anne-Marie Eva Fernande
; APPLICANT: Gerard, Catherine Marie Ghislaine
; APPLICANT: Lombardo-Bencheikh, Angela
; TITLE OF INVENTION: Vaccine
; FILE REFERENCE: B45107
; CURRENT APPLICATION NUMBER: US/09/485,885
; CURRENT FILING DATE: 2000-02-18
; PRIOR APPLICATION NUMBER: PCT/EP98/05285
; PRIOR FILING DATE: 1998-08-17
; PRIOR APPLICATION NUMBER: GB 9717953.5
; PRIOR FILING DATE: 1997-08-22
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 6
; LENGTH: 371
; TYPE: PRT
; ORGANISM: Homo sapien
US-09-485-885-6

Query Match 100.0%; Score 53; DB 2; Length 371;
Best Local Similarity 100.0%; Pred. No. 0.39;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 YAVCDKCLK 9
Db 173 YAVCDKCLK 181

RESULT 18
US-09-485-885-14
; Sequence 14, Application US/09485885
; Patent No. 6342224
; GENERAL INFORMATION:
; APPLICANT: Bruck, Claudine
; APPLICANT: Cabazon Silva, Teresa
; APPLICANT: Delisse, Anne-Marie Eva Fernande
; APPLICANT: Gerard, Catherine Marie Ghislaine
; APPLICANT: Lombardo-Bencheikh, Angela
; TITLE OF INVENTION: Vaccine
; FILE REFERENCE: B45107
; CURRENT APPLICATION NUMBER: US/09/485,885
; CURRENT FILING DATE: 2000-02-18
; PRIOR APPLICATION NUMBER: PCT/EP98/05285
; PRIOR FILING DATE: 1998-08-17
; PRIOR APPLICATION NUMBER: GB 9717953.5
; PRIOR FILING DATE: 1997-08-22
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 14
; LENGTH: 390
; TYPE: PRT
; ORGANISM: Homo sapien
US-09-485-885-14

Query Match 100.0%; Score 53; DB 2; Length 390;
Best Local Similarity 100.0%; Pred. No. 0.4;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 YAVCDKCLK 9
Db 192 YAVCDKCLK 200

RESULT 19

US-08-934-915-162
; Sequence 162, Application US/08934915
; Patent No. 5932412
; GENERAL INFORMATION:
; APPLICANT: DILLNER, JOAKIM
; APPLICANT: CHENG, HWEE-MING
; TITLE OF INVENTION: SYNTHETIC PEPTIDES OF HUMAN
; TITLE OF INVENTION: PAPILLOMAVIRUS 1, 5, 6, 8,
; TITLE OF INVENTION: 11, 16, 18, 31, 33 AND 56,
; TITLE OF INVENTION: USEFUL IN IMMUNOASSAY FOR
; TITLE OF INVENTION: DIAGNOSTIC PURPOSES
; NUMBER OF SEQUENCES: 193
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MASON & ASSOCIATES, P.A.
; STREET: 17757 U.S. HWY. 19 NORTH, SUITE 500
; CITY: CLEARWATER
; STATE: FLORIDA
; COUNTRY: U.S.A.
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: Windows 3.0
; SOFTWARE: Microsoft Word 6.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/934,915
; FILING DATE: 22-SEP-1997
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 07/949,836
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: LOUISE A. FOUCH
; REGISTRATION NUMBER: 37,133
; REFERENCE/DOCKET NUMBER: 1946.6
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 813-538-3800
; TELEFAX: 813-538-3820
; TELEX:
; INFORMATION FOR SEQ ID NO: 162:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-08-934-915-162

Query Match 90.6%; Score 48; DB 1; Length 20;
Best Local Similarity 88.9%; Pred. No. 0.16;
Matches 8; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 YAVCDKCLK 9
DB 6 YAVCNKCLK 14

RESULT 20
US-08-159-339A-1169
; Sequence 1169, Application US/08159339A
; Patent No. 6037135
; GENERAL INFORMATION:
; APPLICANT: Kubo, Ralph T.
; APPLICANT: Grey, Howard M.
; APPLICANT: Sette, Alessandro
; APPLICANT: Celis, Bettean
; TITLE OF INVENTION: HLA Binding peptides and Their
; TITLE OF INVENTION: Uses
; NUMBER OF SEQUENCES: 1254
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Townsend and Townsend and Crew LLP
; STREET: Two Embarcadero Center, Eighth Floor
; CITY: San Francisco
; STATE: CA

COUNTRY: USA
ZIP: 94111-3834
COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FASTSEQ for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/159,339A
; FILING DATE: 29-NOV-1993
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/926,666
; FILING DATE: 07-AUG-1992
; APPLICATION NUMBER: US 08/027,746
; FILING DATE: 05-MAR-1993
; APPLICATION NUMBER: US 08/103,396
; FILING DATE: 06-AUG-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Weber, Ellen Lauer
; REGISTRATION NUMBER: 32,762
; REFERENCE/DOCKET NUMBER: 018623-005030US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (415) 576-0200
; TELEFAX: (415) 576-0300
; TELEX:
; INFORMATION FOR SEQ ID NO: 1169:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 8 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-08-159-339A-1169

Query Match 86.8%; Score 46; DB 2; Length 8;
Best Local Similarity 100.0%; Pred. No. 4.6e+05;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 AVCDKCLK 9
DB 1 AVCDKCLK 8

RESULT 21
US-08-159-339A-561
; Sequence 561, Application US/08159339A
; Patent No. 6037135
; GENERAL INFORMATION:
; APPLICANT: Kubo, Ralph T.
; APPLICANT: Grey, Howard M.
; APPLICANT: Sette, Alessandro
; APPLICANT: Celis, Bettean
; TITLE OF INVENTION: HLA Binding peptides and Their
; TITLE OF INVENTION: Uses
; NUMBER OF SEQUENCES: 1254
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Townsend and Townsend and Crew LLP
; STREET: Two Embarcadero Center, Eighth Floor
; CITY: San Francisco
; STATE: CA
; COUNTRY: USA
; ZIP: 94111-3834
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FASTSEQ for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/159,339A
; FILING DATE: 29-NOV-1993
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 07/926,666
FILING DATE: 07-AUG-1992
APPLICATION NUMBER: US 08/027,746
FILING DATE: 05-MAR-1993
APPLICATION NUMBER: US 08/103,396
FILING DATE: 06-AUG-1993
ATTORNEY/AGENT INFORMATION:
NAME: Weber, Ellen Lauver
REGISTRATION NUMBER: 32,762
REFERENCE/DOCKET NUMBER: 018623-005030US
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 576-0200
TELEFAX: (415) 576-0300
TELEX:
INFORMATION FOR SEQ ID NO: 561:
SEQUENCE CHARACTERISTICS:
LENGTH: 10 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-08-159-339A-561

Query Match 86.8%; Score 46; DB 2; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.18;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 AVCDKCLK 9
Db 1 AVCDKCLK 8

RESULT 22

US-08-159-339A-74
Sequence 74, Application US/08159339A
Patent No. 6037135
GENERAL INFORMATION:
APPLICANT: Kubo, Ralph T.
APPLICANT: Sette, Alessandro
APPLICANT: Cells, Esteban
TITLE OF INVENTION: HLA Binding peptides and Their
TITLE OF INVENTION: Uses
NUMBER OF SEQUENCES: 1254
CORRESPONDENCE ADDRESS:
ADDRESSES: Townsend and Townsend and Crew LLP
STREET: Two Embarcadero Center, Eighth Floor
CITY: San Francisco
STATE: CA
COUNTRY: USA
ZIP: 94111-3834
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
OPERATING SYSTEM: DOS
SOFTWARE: FASTSEQ for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/159,339A
FILING DATE: 29-NOV-1993
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/926,666
FILING DATE: 07-AUG-1992
APPLICATION NUMBER: US 08/027,746
FILING DATE: 05-MAR-1993
APPLICATION NUMBER: US 08/103,396
FILING DATE: 06-AUG-1993
ATTORNEY/AGENT INFORMATION:
NAME: Weber, Ellen Lauver
REGISTRATION NUMBER: 32,762
REFERENCE/DOCKET NUMBER: 018623-005030US
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 576-0200

TELEFAX: (415) 576-0300
TELEX:
INFORMATION FOR SEQ ID NO: 74:
SEQUENCE CHARACTERISTICS:
LENGTH: 9 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-08-159-339A-74

Query Match 79.2%; Score 42; DB 2; Length 9;
Best Local Similarity 100.0%; Pred. No. 4.6e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3 VCDKCLK 9
Db 1 VCDKCLK 7

RESULT 23

US-09-270-767-32119
Sequence 32119, Application US/09270767
Patent No. 6703491
GENERAL INFORMATION:
APPLICANT: Homburger et al.
TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
FILE REFERENCE: File Reference: 7326-094
CURRENT APPLICATION NUMBER: US/09/270,767
CURRENT FILING DATE: 1999-03-17
NUMBER OF SEQ ID NOS: 62517
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 32119
LENGTH: 170
TYPE: PRT
ORGANISM: Drosophila melanogaster
US-09-270-767-32119

Query Match 73.6%; Score 39; DB 2; Length 170;
Best Local Similarity 66.7%; Pred. No. 34;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 YAVCDKCLK 9
Db 38 YSFCCKCLK 46

RESULT 24

US-09-270-767-47336
Sequence 47336, Application US/09270767
Patent No. 6703491
GENERAL INFORMATION:
APPLICANT: Homburger et al.
TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
FILE REFERENCE: File Reference: 7326-094
CURRENT APPLICATION NUMBER: US/09/270,767
CURRENT FILING DATE: 1999-03-17
NUMBER OF SEQ ID NOS: 62517
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 47336
LENGTH: 170
TYPE: PRT
ORGANISM: Drosophila melanogaster
US-09-270-767-47336

Query Match 73.6%; Score 39; DB 2; Length 170;
Best Local Similarity 66.7%; Pred. No. 34;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 YAVCDKCLK 9
Db 38 YSFCCKCLK 46

RESULT 25
US-08-194-468-2
Sequence 2, Application US/08194468
Patent No. 5750336
GENERAL INFORMATION:
APPLICANT: Montminy, Marc R.
TITLE OF INVENTION: ASSAYS FOR THE IDENTIFICATION OF
TITLE OF INVENTION: COMPOUNDS WHICH INHIBIT ACTIVATION OF CAMP AND MITOGEN
TITLE OF INVENTION: RESPONSIVE GENES
NUMBER OF SEQUENCES: 3
CORRESPONDENCE ADDRESS:
ADDRESSEE: Pretty, Schroeder, Brueggemann & Clark
STREET: 444 South Flower Street, Suite 2000
CITY: Los Angeles
STATE: California
COUNTRY: USA
ZIP: 90071
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/194,468
FILING DATE: 10-FEB-1994
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Reiter, Stephen E.
REGISTRATION NUMBER: 31,192
REFERENCE/DOCKET NUMBER: P41 9672
TELECOMMUNICATION INFORMATION:
TELEPHONE: (619)-546-4737
TELEFAX: (619)-546-9392
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 2441 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-194-468-2

Query Match 69.8%; Score 37; DB 1; Length 2441;
Best Local Similarity 85.7%; Pred. No. 8.4e+02;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 3 VCDKCLK 9
DB 1308 VCDNCLK 1314

RESULT 26
US-08-961-739-2
Sequence 2, Application US/08961739A
Patent No. 6063583
GENERAL INFORMATION:
APPLICANT: Montminy, Marc R.
TITLE OF INVENTION: Methods for Treating Diabetes Mellitus
FILE REFERENCE: SALK1650-1
CURRENT APPLICATION NUMBER: US/08/961,739A
CURRENT FILING DATE: 1997-10-31
EARLIER APPLICATION NUMBER: US 194,468
EARLIER FILING DATE: 1994-02-10
NUMBER OF SEQ ID NOS: 4
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 2
LENGTH: 2441
TYPE: PRT
ORGANISM: Mus
FEATURE:
NAME/KEY: VARIANT
LOCATION: (1)...(2441)
OTHER INFORMATION: Xaa = Any Amino Acid

US-08-961-739-2

Query Match 69.8%; Score 37; DB 2; Length 2441;
Best Local Similarity 85.7%; Pred. No. 8.4e+02;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 3 VCDKCLK 9
DB 1308 VCDNCLK 1314

RESULT 27
US-09-514-247A-8
Sequence 8, Application US/09514247A
Patent No. 6365361
GENERAL INFORMATION:
APPLICANT: TANABE SEIYAKU CO. LTD.
APPLICANT: TANIGUCHI, Tomoyasu
APPLICANT: MIZUKAMI, Junko
TITLE OF INVENTION: METHOD FOR IDENTIFYING OR SCREENING AGONIST AND ANTAGONIST TO PPA
FILE REFERENCE: TANIGUCHI=6
CURRENT APPLICATION NUMBER: US/09/514,247A
CURRENT FILING DATE: 2000-02-28
PRIOR APPLICATION NUMBER: PCT/JP98/03734
PRIOR FILING DATE: 1998-08-24
PRIOR APPLICATION NUMBER: JP231084/1997
PRIOR FILING DATE: 1997-08-27
NUMBER OF SEQ ID NOS: 10
SOFTWARE: PatentIn version 3.0
SEQ ID NO 8
LENGTH: 2441
TYPE: PRT
ORGANISM: mouse
US-09-514-247A-8

Query Match 69.8%; Score 37; DB 2; Length 2441;
Best Local Similarity 85.7%; Pred. No. 8.4e+02;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 3 VCDKCLK 9
DB 1308 VCDNCLK 1314

RESULT 28
US-09-686-316-2
Sequence 2, Application US/09686316
Patent No. 6646115
GENERAL INFORMATION:
APPLICANT: Montminy, Marc R.
TITLE OF INVENTION: Methods for Treating Diabetes Mellitus
FILE REFERENCE: SALK1650-1
CURRENT APPLICATION NUMBER: US/09/686,316
CURRENT FILING DATE: 2000-10-10
PRIOR APPLICATION NUMBER: US/08/961,739
PRIOR FILING DATE: 1997-10-31
PRIOR APPLICATION NUMBER: US 194,468
PRIOR FILING DATE: 1994-02-10
NUMBER OF SEQ ID NOS: 4
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 2
LENGTH: 2441
TYPE: PRT
ORGANISM: Mus
FEATURE:
NAME/KEY: VARIANT
LOCATION: (1)...(2441)
OTHER INFORMATION: Xaa = Any Amino Acid
US-09-686-316-2

Query Match 69.8%; Score 37; DB 2; Length 2441;
Best Local Similarity 85.7%; Pred. No. 8.4e+02;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 3 VCDKCLK 9
|||
Db 1308 VCDNCLK 1314

RESULT 29
US-09-514-247A-10
; Sequence 10, Application US/09514247A
; Patent No. 6365361
; GENERAL INFORMATION:
; APPLICANT: TANABE SEIYAKU CO. LTD.
; APPLICANT: TANIGUCHI, Tomoyasu
; APPLICANT: MIYUKAMI, Junko
; TITLE OF INVENTION: METHOD FOR IDENTIFYING OR SCREENING AGONIST AND ANTAGONIST TO PPA
; FILE REFERENCE: TANIGUCHI=6
; CURRENT APPLICATION NUMBER: US/09/514,247A
; CURRENT FILING DATE: 2000-02-28
; PRIOR APPLICATION NUMBER: PCT/JP98/03734
; PRIOR FILING DATE: 1998-08-24
; PRIOR APPLICATION NUMBER: JP231084/1997
; PRIOR FILING DATE: 1997-08-27
; NUMBER OF SEQ ID NOS: 10
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 10
; LENGTH: 2442
; TYPE: PRT
; ORGANISM: human
US-09-514-247A-10

Query Match 69.8%; Score 37; DB 2; Length 2442;
Best Local Similarity 85.7%; Pred. No. 8.4e+02;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 3 VCDKCLK 9
|||
Db 1307 VCDNCLK 1313

RESULT 30
US-09-538-092-1370
; Sequence 1370, Application US/09538092
; Patent No. 6753314
; GENERAL INFORMATION:
; APPLICANT: Glaxo, Iolac
; APPLICANT: Mansfield, Traci A.
; TITLE OF INVENTION: Protein-Protein Complexes and Method of Using Same
; FILE REFERENCE: 15966-542
; CURRENT APPLICATION NUMBER: US/09/538,092
; CURRENT FILING DATE: 2000-03-29
; PRIOR APPLICATION NUMBER: 60/127,352
; PRIOR FILING DATE: 1999-04-01
; PRIOR APPLICATION NUMBER: 60/178,965
; PRIOR FILING DATE: 2000-02-01
; NUMBER OF SEQ ID NOS: 1387
; SOFTWARE: CuratSeqFormatter Version 0.9
; SEQ ID NO 1370
; LENGTH: 2442
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (0)-(0)
; OTHER INFORMATION: Polypeptide Accession Number Q92793
US-09-538-092-1370

Query Match 69.8%; Score 37; DB 2; Length 2442;
Best Local Similarity 85.7%; Pred. No. 8.4e+02;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 3 VCDKCLK 9
|||
Db 1307 VCDNCLK 1313

RESULT 31
US-10-012-819-6
; Sequence 6, Application US/10012819
; Patent No. 6916615
; GENERAL INFORMATION:
; APPLICANT: Legrain, Pierre
; APPLICANT: Selig, Luc
; APPLICANT: Rain, Jean-Christophe
; TITLE OF INVENTION: Collection of Prokaryotic DNA for Two-Hybrid System, Helicobacter
; TITLE OF INVENTION: Pylori Protein-Protein Interactions and Applications thereof
; FILE REFERENCE: B5053
; CURRENT APPLICATION NUMBER: US/10/012,819
; CURRENT FILING DATE: 2001-10-30
; PRIOR APPLICATION NUMBER: EP 99401066.8
; PRIOR FILING DATE: 1999-04-30
; NUMBER OF SEQ ID NOS: 278
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 6
; LENGTH: 34
; TYPE: PRT
; ORGANISM: Helicobacter pylori
US-10-012-819-6

Query Match 67.9%; Score 36; DB 2; Length 34;
Best Local Similarity 71.4%; Pred. No. 23;
Matches 5; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

OY 1 YAVCDKC 7
|||
Db 5 YGVCEKC 11

RESULT 32
US-09-134-000C-4206
; Sequence 4206, Application US/09134000C
; Patent No. 6617156
; GENERAL INFORMATION:
; APPLICANT: Lynn Doucette-Stamm et al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO
; TITLE OF INVENTION: ENTEROCOCCUS FAECALIS FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 032796-032
; CURRENT APPLICATION NUMBER: US/09/134,000C
; CURRENT FILING DATE: 1998-08-13
; PRIOR APPLICATION NUMBER: US 60/055,778
; PRIOR FILING DATE: 1997-08-15
; NUMBER OF SEQ ID NOS: 6812
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 4206
; LENGTH: 74
; TYPE: PRT
; ORGANISM: Enterococcus faecalis
US-09-134-000C-4206

Query Match 67.9%; Score 36; DB 2; Length 74;
Best Local Similarity 71.4%; Pred. No. 47;
Matches 5; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

OY 3 VCDKCLK 9
|||
Db 62 VCDKCIE 68

RESULT 33
US-09-345-473E-24
; Sequence 24, Application US/09345473E
; Patent No. 6558903
; GENERAL INFORMATION:
; APPLICANT: Hodge, Martin
; TITLE OF INVENTION: No. 6558903el Kinases and Uses Thereof
; FILE REFERENCE: 35800/183781
; CURRENT APPLICATION NUMBER: US/09/345,473E

CURRENT FILING DATE: 1999-06-30
NUMBER OF SEQ ID NOS: 62
SOFTWARE: FASTSEQ for Windows Version 4.0
SEQ ID NO: 24
LENGTH: 1404
TYPE: PRT
ORGANISM: Gallus gallus
US-09-345-473B-24

Query Match 67.9% Score 36; DB 2; Length 1404;
Best Local Similarity 44.4%; Pred. No. 7.3e+02;
Matches 4; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

QY 1 YAVCDKCLK 9
DB 525 PSTCDRCCLR 533

RESULT 34
US-09-862-027-24
Sequence 24, Application US/09862027
Patent No. 6858418
GENERAL INFORMATION:
APPLICANT: Hodge, Martin R.
TITLE OF INVENTION: No. 6858418el Kinases and Uses Thereof
FILE REFERENCE: 35800/234862
CURRENT APPLICATION NUMBER: US/09/862,027
CURRENT FILING DATE: 2001-05-21
PRIOR APPLICATION NUMBER: US 09/345,473
PRIOR FILING DATE: 1999-06-30
NUMBER OF SEQ ID NOS: 82
SOFTWARE: FASTSEQ for Windows Version 4.0
SEQ ID NO: 24
LENGTH: 1404
TYPE: PRT
ORGANISM: Gallus gallus
US-09-862-027-24

Query Match 67.9% Score 36; DB 2; Length 1404;
Best Local Similarity 44.4%; Pred. No. 7.3e+02;
Matches 4; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

QY 1 YAVCDKCLK 9
DB 525 PSTCDRCCLR 533

RESULT 35
US-08-159-339A-239
Sequence 239, Application US/08159339A
Patent No. 6037135
GENERAL INFORMATION:
APPLICANT: Kubo, Ralph T.
APPLICANT: Grey, Howard M.
APPLICANT: Sette, Alessandro
APPLICANT: Celis, Basteen
TITLE OF INVENTION: HLA Binding peptides and Their
TITLE OF INVENTION: Uses
NUMBER OF SEQUENCES: 1254
CORRESPONDENCE ADDRESSES:
ADDRESSER: Townsend and Townsend and Crew LLP
STREET: Two Embarcadero Center, Eighth Floor
CITY: San Francisco
STATE: CA
COUNTRY: USA
ZIP: 94111-3834
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FASTSEQ for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/159,339A

FILING DATE: 29-NOV-1993
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/926,666
FILING DATE: 07-AUG-1992
APPLICATION NUMBER: US 08/027,746
FILING DATE: 05-MAR-1993
APPLICATION NUMBER: US 08/103,396
FILING DATE: 06-AUG-1993
ATTORNEY/AGENT INFORMATION:
NAME: Weber, Ellen Lauver
REGISTRATION NUMBER: 32,762
REFERENCE/DOCKET NUMBER: 018623-005030US
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 576-0200
TELEFAX: (415) 576-0300
TELEX:
INFORMATION FOR SEQ ID NO: 239:
SEQUENCE CHARACTERISTICS:
LENGTH: 9 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-08-159-339A-239

Query Match 66.0% Score 35; DB 2; Length 9;
Best Local Similarity 77.8%; Pred. No. 4.6e+05;
Matches 7; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 YAVCDKCLK 9
DB 1 YAVADKALK 9

RESULT 36
US-09-732-210-151
Sequence 151, Application US/09732210
Patent No. 6573361
GENERAL INFORMATION:
APPLICANT: Bunkers, Greg J.
APPLICANT: Liang, Jihong
APPLICANT: Mitranck, Cindy A.
APPLICANT: Seale, Jeffrey W.
TITLE OF INVENTION: Anti-fungal Proteins and Methods for Their Use
FILE REFERENCE: 38-21(15036)B
CURRENT APPLICATION NUMBER: US/09/732,210
CURRENT FILING DATE: 2000-12-07
PRIOR APPLICATION NUMBER: US 60/169,513
PRIOR FILING DATE: 1999-12-07
PRIOR APPLICATION NUMBER: US 60/169,340
PRIOR FILING DATE: 1999-12-07
NUMBER OF SEQ ID NOS: 1753
SEQ ID NO: 151
LENGTH: 69
TYPE: PRT
ORGANISM: Aquifex aeolicus
US-09-732-210-151

Query Match 66.0% Score 35; DB 2; Length 69;
Best Local Similarity 85.7%; Pred. No. 64;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 3 VCDKCLK 9
DB 49 VCTKCLK 55

RESULT 37
US-09-513-999C-6410
Sequence 6410, Application US/09513999C
Patent No. 6783961

```

; GENERAL INFORMATION:
; APPLICANT: Dumas Milne Edwards, J.B.
; APPLICANT: Duclert, A. Y.
; APPLICANT: Giordano, J. Y.
; TITLE OF INVENTION: Expressed Sequence Tags and Encoded Human Proteins.
; Patent No. 6783961
; FILE REFERENCE: 59, US2, PRG
; CURRENT APPLICATION NUMBER: US/09/513, 999C
; CURRENT FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: US 60/122,487
; PRIOR FILING DATE: 1999-02-26
; NUMBER OF SEQ ID NOS: 36681
; SOFTWARE: Patent.pm
; SEQ ID NO 6410
; LENGTH: 132
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: UNSURE
; LOCATION: 58
; OTHER INFORMATION: Xaa=lys or Thr
; FEATURE:
; NAME/KEY: UNSURE
; LOCATION: 132
; OTHER INFORMATION: Xaa=His or Gln
; US-09-513-999C-6410

Query Match      66.0%; Score 35; DB 2; Length 132;
Best Local Similarity 55.6%; Pred. No. 1.2e+02;
Matches 5; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY      1 YAVCDKCLK 9
Db      67 YRACDHCLR 75

RESULT 38
US-08-871-268A-17
; Sequence 17, Application US/08871268A
; Patent No. 5866391
; GENERAL INFORMATION:
; APPLICANT: Jones, Aubrey
; APPLICANT: Cherry, Joel R.
; TITLE OF INVENTION: Aspergillus Porphobilinogen Synthases
; TITLE OF INVENTION: and Nucleic Acids Encoding Same
; NUMBER OF SEQUENCES: 23
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: No. 58663910 No. 5866391disk of No. 5866391th America, Inc.
; STREET: 405 Lexington Avenue
; CITY: New York
; STATE: NY
; COUNTRY: USA
; ZIP: 10174
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/871,268A
; FILING DATE: 09-JUN-1997
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Lambiliis, Elias
; REGISTRATION NUMBER: 33,728
; REFERENCE/DOCKET NUMBER: 4809,200-US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 212-867-0123
; TELEFAX: 212-878-9655
; INFORMATION FOR SEQ ID NO: 17:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 342 amino acids
; TYPE: amino acid

; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: No. 5866391e
; US-08-871-268A-17

Query Match      66.0%; Score 35; DB 1; Length 342;
Best Local Similarity 62.5%; Pred. No. 2.8e+02;
Matches 5; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY      1 YAVCDKCL 8
Db      127 YIICDVCL 134

RESULT 39
US-08-871-267B-25
; Sequence 25, Application US/08871267B
; Patent No. 6100057
; GENERAL INFORMATION:
; APPLICANT: Elrod, Susan L.
; APPLICANT: Cherry, Joel R.
; TITLE OF INVENTION: A Method for Increasing Hemoprotein
; TITLE OF INVENTION: Production in Filamentous Fungi
; NUMBER OF SEQUENCES: 39
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: No. 61000570 No. 6100057disk of No. 6100057th America, Inc.
; STREET: 405 Lexington Avenue - 64th Fl.
; CITY: New York
; STATE: NY
; COUNTRY: USA
; ZIP: 10174
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/871,267B
; FILING DATE: 9-JUN-1997
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Rozek, Carol E.
; REGISTRATION NUMBER: 36,993
; REFERENCE/DOCKET NUMBER: 4771,200-US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 212-878-9652
; TELEFAX: 212-878-9655
; TELEX:
; INFORMATION FOR SEQ ID NO: 25:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 342 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: No. 6100057e
; US-08-871-267B-25

Query Match      66.0%; Score 35; DB 2; Length 342;
Best Local Similarity 62.5%; Pred. No. 2.8e+02;
Matches 5; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY      1 YAVCDKCL 8
Db      127 YIICDVCL 134

RESULT 40
US-09-618-419-25
; Sequence 25, Application US/09618419
; Patent No. 6261827
; GENERAL INFORMATION:
; APPLICANT: Elrod, Susan L.
```

```

; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: No. 5866391e
; US-08-871-268A-17

Query Match      66.0%; Score 35; DB 1; Length 342;
Best Local Similarity 62.5%; Pred. No. 2.8e+02;
Matches 5; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY      1 YAVCDKCL 8
Db      127 YIICDVCL 134

RESULT 39
US-08-871-267B-25
; Sequence 25, Application US/08871267B
; Patent No. 6100057
; GENERAL INFORMATION:
; APPLICANT: Elrod, Susan L.
; APPLICANT: Cherry, Joel R.
; TITLE OF INVENTION: A Method for Increasing Hemoprotein
; TITLE OF INVENTION: Production in Filamentous Fungi
; NUMBER OF SEQUENCES: 39
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: No. 61000570 No. 6100057disk of No. 6100057th America, Inc.
; STREET: 405 Lexington Avenue - 64th Fl.
; CITY: New York
; STATE: NY
; COUNTRY: USA
; ZIP: 10174
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/871,267B
; FILING DATE: 9-JUN-1997
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Rozek, Carol E.
; REGISTRATION NUMBER: 36,993
; REFERENCE/DOCKET NUMBER: 4771,200-US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 212-878-9652
; TELEFAX: 212-878-9655
; TELEX:
; INFORMATION FOR SEQ ID NO: 25:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 342 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: No. 6100057e
; US-08-871-267B-25

Query Match      66.0%; Score 35; DB 2; Length 342;
Best Local Similarity 62.5%; Pred. No. 2.8e+02;
Matches 5; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY      1 YAVCDKCL 8
Db      127 YIICDVCL 134

RESULT 40
US-09-618-419-25
; Sequence 25, Application US/09618419
; Patent No. 6261827
; GENERAL INFORMATION:
; APPLICANT: Elrod, Susan L.
```

Cherry, Joel R.
Jones, Aubrey
TITLE OF INVENTION: A Method for Increasing Hemoprotein
Production in Filamentous Fungi
NUMBER OF SEQUENCES: 39
CORRESPONDENCE ADDRESS:
ADDRESSER: No. 62618270 No. 6261827disk OF No. 6261827ch America, Inc.
STREET: 405 Lexington Avenue - 64th Fl.
CITY: New York
STATE: NY
COUNTRY: USA
ZIP: 10174
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FASTSEQ for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/618,419
FILING DATE: 18-Jul-2000
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/871,267
FILING DATE: 9-JUN-1997
ATTORNEY/AGENT INFORMATION:
NAME: Rozek, Carol E.
REGISTRATION NUMBER: 36,993
REFERENCE/DOCKET NUMBER: 4771.200-US
TELECOMMUNICATION INFORMATION:
TELEPHONE: 212-878-9652
TELEFAX: 212-878-9655
TELEX: <Unknown>
INFORMATION FOR SEQ ID NO: 25:
SEQUENCE CHARACTERISTICS:
LENGTH: 342 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: No. 6261827e
SEQUENCE DESCRIPTION: SEQ ID NO: 25:
US-09-618-419-25
Query Match 66.0%; Score 35; DB 2; Length 342;
Best Local Similarity 62.5%; Pred. No. 2.8e+02;
Matches 5; Conservative 1; Mismatches 2; Indels 0; Gaps 0;
CY 1 YAVCDKCL 8
DB 127 YICDVCCL 134
RESULT 41
US-09-163-674-17
Sequence 17, Application US/09163674
Patent No. 6306630
GENERAL INFORMATION:
APPLICANT: Jones, Aubrey
APPLICANT: Cherry, Joel R.
TITLE OF INVENTION: Aspergillus Perophobilligen Synthases
TITLE OF INVENTION: and Nucleic Acids Encoding Same
NUMBER OF SEQUENCES: 23
CORRESPONDENCE ADDRESS:
ADDRESSER: No. 63066300 No. 6306630disk of No. 6306630ch America, Inc.
STREET: 405 Lexington Avenue
CITY: New York
STATE: NY
COUNTRY: USA
ZIP: 10174
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FASTSEQ for Windows Version 2.0
CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/163,674
FILING DATE: 30-Sept-1998
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: Gregg, Valeta A.
REGISTRATION NUMBER: 35,127
REFERENCE/DOCKET NUMBER: 4809.210-US
TELECOMMUNICATION INFORMATION:
TELEPHONE: 212-867-0123
TELEFAX: 212-878-9655
INFORMATION FOR SEQ ID NO: 17:
SEQUENCE CHARACTERISTICS:
LENGTH: 342 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: No. 6306630e
US-09-163-674-17
Query Match 66.0%; Score 35; DB 2; Length 342;
Best Local Similarity 62.5%; Pred. No. 2.8e+02;
Matches 5; Conservative 1; Mismatches 2; Indels 0; Gaps 0;
CY 1 YAVCDKCL 8
DB 127 YICDVCCL 134
RESULT 42
US-09-032-372-1
Sequence 1, Application US/09032372
Patent No. 6008337
GENERAL INFORMATION:
APPLICANT: Bandman, Olga
APPLICANT: Hillman, Jennifer L.
APPLICANT: Corley, Neil C.
APPLICANT: Guegler, Karl J.
APPLICANT: Yue, Henry
APPLICANT: Lal, Preeti
TITLE OF INVENTION: CELL CYCLE RELATED PROTEINS
NUMBER OF SEQUENCES: 13
CORRESPONDENCE ADDRESS:
ADDRESSER: Incyte Pharmaceuticals, Inc.
STREET: 3174 Porter Drive
CITY: Palo Alto
STATE: CA
COUNTRY: USA
ZIP: 94304
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FASTSEQ for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/032,372
FILING DATE: Herewith
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Billings, Lucy J
REGISTRATION NUMBER: 36,749
REFERENCE/DOCKET NUMBER: PF-0478 US
TELECOMMUNICATION INFORMATION:
TELEPHONE: 650-855-0555
TELEFAX: 650-845-4166
TELEX:
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 395 amino acids
TYPE: amino acid
STRANDEDNESS: single

TOPOLOGY: linear
IMMEDIATE SOURCE:
LIBRARY: SYNORAB01
CLONE: 78191
US-09-032-372-1

Query Match 66.0%; Score 35; DB 2; Length 395;
Best Local Similarity 55.6%; Pred. No. 3.3e+02;
Matches 5; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

Qy 1 YAVCDKCLK 9
Db 11 FGSCDKCFK 19

RESULT 43
US-10-098-108-7
Sequence 7, Application US/10098108
Patent No. 691135
GENERAL INFORMATION:
APPLICANT: Kapeller-Libermann, Rosana
APPLICANT: Bandaru, Rajasekhar
TITLE OF INVENTION: 57316 And 33338, Human Ubiquitin Carboxyl
TITLE OF INVENTION: Terminal Hydrolases and Uses Therefor
FILE REFERENCE: MP101-050P1RM
CURRENT APPLICATION NUMBER: US/10/098,108
CURRENT FILING DATE: 2002-03-13
PRIOR APPLICATION NUMBER: 60/276,395
PRIOR FILING DATE: 2001-03-16
NUMBER OF SEQ ID NOS: 11
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 7
LENGTH: 814
TYPE: PRT
ORGANISM: Homo sapiens
US-10-098-108-7

Query Match 66.0%; Score 35; DB 2; Length 814;
Best Local Similarity 55.6%; Pred. No. 6.4e+02;
Matches 5; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

Qy 1 YAVCDKCLK 9
Db 59 MWCSECLK 67

RESULT 44
US-08-227-536-2
Sequence 2, Application US/08227536
Patent No. 5658784
GENERAL INFORMATION:
APPLICANT: Eckner, Richard
APPLICANT: Ewen, Mark
APPLICANT: Livingston, David
TITLE OF INVENTION: NUCLEIC ACID, ENCODING TRANSCRIPTION
TITLE OF INVENTION: FACTOR P300 AND USES OF P300
NUMBER OF SEQUENCES: 13
CORRESPONDENCE ADDRESS:
ADDRESSEE: Weingarten, Schurgin, Gagnebin & Hayes
STREET: Ten Post Office Square
CITY: Boston
STATE: MA
COUNTRY: US
ZIP: 02109
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/227,536
FILING DATE: 14-APR-1994
CLASSIFICATION: 436

ATTORNEY/AGENT INFORMATION:
NAME: Williams Ph.D., Kathleen A.
REGISTRATION NUMBER: 14,380
REFERENCE/DOCKET NUMBER: DPCI-308XX
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 542-2290
TELEFAX: (617) 451-0313
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 2414 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-227-536-2

Query Match 66.0%; Score 35; DB 1; Length 2414;
Best Local Similarity 85.7%; Pred. No. 1.7e+03;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 3 VCDKCLK 9
Db 1271 VCDGCLK 1277

RESULT 45
US-09-538-092-1289
Sequence 1289, Application US/09538092
Patent No. 675314
GENERAL INFORMATION:
APPLICANT: Glot, Joel
APPLICANT: Mansfield, Traci A.
TITLE OF INVENTION: Protein-Protein Complexes and Method of Using Same
FILE REFERENCE: 15966-542
CURRENT APPLICATION NUMBER: US/09/538,092
CURRENT FILING DATE: 2000-03-29
PRIOR APPLICATION NUMBER: 60/127,352
PRIOR FILING DATE: 1999-04-01
PRIOR APPLICATION NUMBER: 60/178,965
PRIOR FILING DATE: 2000-02-01
NUMBER OF SEQ ID NOS: 1387
SOFTWARE: CuratSeqFormatter Version 0.9
SEQ ID NO 1289
LENGTH: 2414
TYPE: PRT
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: misc_feature
LOCATION: (0)...(0)
OTHER INFORMATION: Polypeptide Accession Number Q09472
US-09-538-092-1289

Query Match 66.0%; Score 35; DB 2; Length 2414;
Best Local Similarity 85.7%; Pred. No. 1.7e+03;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 3 VCDKCLK 9
Db 1271 VCDGCLK 1277

RESULT 46
PCT-US95-04682-2
Sequence 2, Application PC/TUS9504682
GENERAL INFORMATION:
APPLICANT:
TITLE OF INVENTION: NUCLEIC ACID ENCODING TRANSCRIPTION
TITLE OF INVENTION: FACTOR P300 AND USES OF P300
NUMBER OF SEQUENCES: 13
CORRESPONDENCE ADDRESS:
ADDRESSEE: Weingarten, Schurgin, Gagnebin & Hayes
STREET: Ten Post Office Square
CITY: Boston
STATE: MA

COUNTRY: US
ZIP: 02109
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US95/04682
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/227,536
FILING DATE: 14-April-1994
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: Holliday C. Heine, Ph.D.
REGISTRATION NUMBER: 34,346
REFERENCE/DOCKET NUMBER: DFCI-308Xq999
TELEPHONE: (617) 542-2290
TELEFAX: (617) 451-0313
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 2414 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
PCT-US95-04682-2

Query Match 66.0%; Score 35; DB 4; Length 2414;
Best Local Similarity 85.7%; Pred. No. 1.7e+03;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 3 VCDGCLK 9
DB 1271 VCDGCLK 1277

RESULT 47
US-09-513-999C-7370
Sequence 7370, Application US/09513999C
Patent No. 6783961
GENERAL INFORMATION:
APPLICANT: Dumas Milne Edwards, J.B.
APPLICANT: Duclert, A.Y.
APPLICANT: Giordano, J.Y.
TITLE OF INVENTION: Expressed Sequence Tags and Encoded Human Proteins.
Patent No. 6783961
FILE REFERENCE: 59, US2, REG
CURRENT APPLICATION NUMBER: US/09/513,999C
CURRENT FILING DATE: 2000-02-24
PRIOR APPLICATION NUMBER: US 60/122,487
PRIOR FILING DATE: 1999-02-26
NUMBER OF SEQ ID NOS: 36681
SOFTWARE: Patent.pm
SEQ ID NO 7370
LENGTH: 74
TYPE: PRT
ORGANISM: Homo sapiens
US-09-513-999C-7370

Query Match 64.2%; Score 34; DB 2; Length 74;
Best Local Similarity 66.7%; Pred. No. 1e+02;
Matches 6; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 YAVCDKCLK 9
DB 24 YNCKDKCNK 32

RESULT 48
US-08-456-265A-108

Sequence 108, Application US/08456265A
Patent No. 5767369
GENERAL INFORMATION:
APPLICANT: Alexander, Danny C.
APPLICANT: Ryals, John A.
APPLICANT: Goodman, Robert M.
APPLICANT: Stinson, Jeffrey R.
TITLE OF INVENTION: CHEMICALLY REGULATABLE AND ANTI-PATHOGENIC
NUMBER OF SEQUENCES: 111
CORRESPONDENCE ADDRESS:
ADDRESSEE: CIBA-GEIGY Corporation
STREET: 520 White Plains Road, P.O. Box 2005
CITY: Tarrytown
STATE: New York
COUNTRY: USA
ZIP: 10591
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/456,265A
FILING DATE: 31-MAY-95
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/181,271
FILING DATE: 13-JAN-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/093,301
FILING DATE: 16-JUL-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/937,197
FILING DATE: 6-NOV-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/678,378
FILING DATE: 1-APR-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/305,566
FILING DATE: 6-FEB-1989
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/165,667
FILING DATE: 8-MAR-1988
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/042,847
FILING DATE: 6-APR-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/632,441
FILING DATE: 21-DEC-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/425,504
FILING DATE: 20-OCT-1989
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/848,506
FILING DATE: 6-MAR-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/768,122
FILING DATE: 27-SEP-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/580,431
FILING DATE: 7-SEP-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/368,672
FILING DATE: 20-JUN-1989
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/329,018
FILING DATE: 24-MAR-1989
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/045,957
FILING DATE: 12-APR-1993
ATTORNEY/AGENT INFORMATION:
NAME: Meigs, J. Timothy

REGISTRATION NUMBER: 38,241
REFERENCE/DOCKET NUMBER: S-19825/P1/CGC 1727/DIV10
TELECOMMUNICATION INFORMATION:
TELEPHONE: (919)541-8587
TELEFAX: (919)541-8689
INFORMATION FOR SEQ ID NO: 108:
SEQUENCE CHARACTERISTICS:
LENGTH: 94 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-456-265A-108

Query Match 64.2%; Score 34; DB 1; Length 94;
Best Local Similarity 55.6%; Pred. No. 1.2e+02;
Matches 5; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY 1 YAVCDKCLK 9
|:|:|
Db 83 YQICSKCPK 91

RESULT 49
US-08-971-217-108
Sequence 108, Application US/08971217
Patent No. 5942662
GENERAL INFORMATION:
APPLICANT: Ryals, John A.
APPLICANT: Harms, Christian
APPLICANT: Friedrich, Leslie
APPLICANT: Beck, James
APPLICANT: Uknes, Scott
APPLICANT: Ward, Eric
TITLE OF INVENTION: INDUCIBLE HERBICIDE RESISTANCE
NUMBER OF SEQUENCES: 111
CORRESPONDENCE ADDRESS:
ADDRESSEE: No. 5942662artis Corporation
STREET: 3054 Cornwallis Road, P.O. Box 12257
CITY: Research Triangle Park
STATE: NC
COUNTRY: USA
ZIP: 27709
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/971,217
FILING DATE:
CLASSIFICATION: 800
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/457,364
FILING DATE: 31-MAY-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/181,271
FILING DATE: 13-JAN-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/093,301
FILING DATE: 16-JUL-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/937,197
FILING DATE: 6-NOV-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/678,378
FILING DATE: 1-APR-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/305,566
FILING DATE: 6-FEB-1989
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/165,667
FILING DATE: 8-MAR-1988
PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 08/042,847
FILING DATE: 6-APR-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/632,441
FILING DATE: 21-DEC-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/425,504
FILING DATE: 20-OCT-1989
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/848,506
FILING DATE: 6-MAR-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/768,122
FILING DATE: 27-SEP-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/580,431
FILING DATE: 7-SEP-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/368,672
FILING DATE: 20-JUN-1989
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/329,018
FILING DATE: 24-MAR-1989
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/045,957
FILING DATE: 12-APR-1993
ATTORNEY/AGENT INFORMATION:
NAME: Meigs, J. Timothy
REGISTRATION NUMBER: 38,241
REFERENCE/DOCKET NUMBER: S-19825/P1/CGC 1727/DIV5/CONT
TELECOMMUNICATION INFORMATION:
TELEPHONE: (919)541-8587
TELEFAX: (919)541-8689
INFORMATION FOR SEQ ID NO: 108:
SEQUENCE CHARACTERISTICS:
LENGTH: 94 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-971-217-108

Query Match 64.2%; Score 34; DB 1; Length 94;
Best Local Similarity 55.6%; Pred. No. 1.2e+02;
Matches 5; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY 1 YAVCDKCLK 9
|:|:|
Db 83 YQICSKCPK 91

RESULT 50
US-09-350-600-108
Sequence 108, Application US/09350600
Patent No. 6262342
GENERAL INFORMATION:
APPLICANT: Meins, Frederick
APPLICANT: Shinsht, Hideaki
APPLICANT: Wenzler, Herman
APPLICANT: Hofsteenge, Jan
APPLICANT: Ryals, John
APPLICANT: Sperisen, Christoph
TITLE OF INVENTION: DNA SEQUENCES ENCODING POLYPEPTIDES
NUMBER OF SEQUENCES: 111
CORRESPONDENCE ADDRESS:
ADDRESSEE: No. 6262342artis Corporation
STREET: 3054 Cornwallis Road, P.O. Box 12257
CITY: Research Triangle Park
STATE: NC
COUNTRY: USA
ZIP: 27709
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/350,600
FILING DATE:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/971,217
FILING DATE: 14-NOV-1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/457,364
FILING DATE: 31-MAY-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/181,271
FILING DATE: 13-JAN-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/093,301
FILING DATE: 16-JUL-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/937,197
FILING DATE: 6-NOV-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/678,378
FILING DATE: 1-APR-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/305,566
FILING DATE: 6-FEB-1989
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/165,667
FILING DATE: 8-MAR-1988
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/042,847
FILING DATE: 6-APR-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/632,441
FILING DATE: 21-DEC-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/425,504
FILING DATE: 20-OCT-1989
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/848,506
FILING DATE: 6-MAR-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/768,122
FILING DATE: 27-SEP-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/580,431
FILING DATE: 7-SEP-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/368,672
FILING DATE: 20-JUN-1989
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/329,018
FILING DATE: 24-MAR-1989
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/381,443
FILING DATE: 18-JUL-1989
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/353,312
FILING DATE: 17-MAY-1989
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/226,303
FILING DATE: 29-JUL-1988
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/045,957
FILING DATE: 12-APR-1993
ATTORNEY/AGENT INFORMATION:
NAME: Meigs, J. Timothy
REGISTRATION NUMBER: 38,241
REFERENCE/DOCKET NUMBER: S-198250
TELECOMMUNICATION INFORMATION:
TELEPHONE: (919) 541-8587
TELEFAX: (919) 541-8689

INFORMATION FOR SEQ ID NO: 108:
SEQUENCE CHARACTERISTICS:
LENGTH: 94 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-09-350-600-108

Query Match 64.2%; Score 34; DB 2; Length 94;
Best Local Similarity 55.6%; Pred. No. 1.2e+02;
Matches 5; Conservative 1; Mismatches 3; Indels 0; Gaps 0;
OY 1 YAVCDKCLK 9
Db 83 YQICKCPK 91

Search completed: May 5, 2006, 05:35:55
Job time : 25.7 secs

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OM protein - protein search, using sw model

Run on: May 5, 2006, 08:29:07 ; Search time 56 Seconds
(without alignments)
67.151 Million cell updates/sec

Title: US-08-170-344-45
Perfect score: 53
Sequence: 1 YAVCDKCLK 9

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1867569 seqs, 417829326 residues

Total number of hits satisfying chosen parameters: 1867569

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 1000 summaries

Database :
1: /cgn2_6/ptodata/1/pubpaa/US07_PUBCOMB.pep.*
2: /cgn2_6/ptodata/1/pubpaa/US08_PUBCOMB.pep.*
3: /cgn2_6/ptodata/1/pubpaa/US09_PUBCOMB.pep.*
4: /cgn2_6/ptodata/1/pubpaa/US10A_PUBCOMB.pep.*
5: /cgn2_6/ptodata/1/pubpaa/US10B_PUBCOMB.pep.*
6: /cgn2_6/ptodata/1/pubpaa/US11_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	53	100.0	20	4	US-10-476-570-11 Sequence 11, Appl
2	53	100.0	22	4	US-10-612-818-4 Sequence 4, Appl
3	53	100.0	22	5	US-10-995-902-4 Sequence 4, Appl
4	53	100.0	151	4	US-10-177-390-6 Sequence 6, Appl
5	53	100.0	151	5	US-10-484-063-27 Sequence 20, Appl
6	53	100.0	151	5	US-10-484-063-27 Sequence 27, Appl
7	53	100.0	158	5	US-10-858-384-2 Sequence 2, Appl
8	53	100.0	158	5	US-10-367-057-16 Sequence 16, Appl
9	53	100.0	158	6	US-11-021-949-13 Sequence 13, Appl
10	53	100.0	171	4	US-10-472-724-2 Sequence 1, Appl
11	53	100.0	243	6	US-11-072-288-1 Sequence 1, Appl
12	53	100.0	266	3	US-09-367-309A-1 Sequence 1, Appl
13	53	100.0	273	4	US-10-000-903-14 Sequence 4, Appl
14	53	100.0	273	5	US-10-899-771-4 Sequence 10, Appl
15	53	100.0	292	4	US-10-000-903-10 Sequence 10, Appl
16	53	100.0	292	5	US-10-899-771-10 Sequence 6, Appl
17	53	100.0	371	4	US-10-000-903-6 Sequence 6, Appl
18	53	100.0	371	5	US-10-899-771-6 Sequence 14, Appl
19	53	100.0	390	4	US-10-000-903-14 Sequence 14, Appl
20	53	100.0	390	5	US-10-899-771-14 Sequence 14, Appl
21	48	90.6	9	5	US-10-484-063-6 Sequence 237, App
22	48	90.6	10	2	US-08-344-824-237 Sequence 346, App
23	43	81.1	292	4	US-10-424-599-205655 Sequence 205655, A
24	43	81.1	292	4	US-10-424-599-205655 Sequence 197309, A
25	42	79.2	256	4	US-10-424-599-197309 Sequence 361, App
26	42	79.2	256	4	US-10-424-599-197309 Sequence 361, App
27	41	77.4	158	6	US-11-021-949-13 Sequence 14, Appl

28	40	75.5	149	6	US-11-021-949-14 Sequence 14, Appl
29	39	73.6	152	4	US-10-424-599-199555 Sequence 199555, A
30	38	71.7	43	5	US-10-721-793-222 Sequence 222, App
31	38	71.7	43	5	US-10-721-793-224 Sequence 224, App
32	38	71.7	188	5	US-10-450-763-42145 Sequence 42145, App
33	38	71.7	384	6	US-11-097-143-6276 Sequence 6276, App
34	38	71.7	688	4	US-10-369-493-5438 Sequence 5438, App
35	38	71.7	781	4	US-10-424-599-265840 Sequence 265840, A
36	37	69.8	148	6	US-11-021-949-19 Sequence 19, Appl
37	37	69.8	151	6	US-11-021-949-24 Sequence 24, Appl
38	37	69.8	151	6	US-11-021-949-25 Sequence 25, Appl
39	37	69.8	330	4	US-10-437-963-157042 Sequence 157042, A
40	37	69.8	1696	4	US-10-437-963-128565 Sequence 128565, A
41	37	69.8	2429	5	US-10-732-923-18427 Sequence 18427, A
42	37	69.8	2440	5	US-10-732-923-18452 Sequence 18452, A
43	37	69.8	2441	5	US-10-732-923-18452 Sequence 8, Appl
44	37	69.8	2441	5	US-10-628-957-2 Sequence 2, Appl
45	37	69.8	2441	5	US-10-473-127-643 Sequence 643, App
46	37	69.8	2441	5	US-10-732-923-18428 Sequence 18428, A
47	37	69.8	2441	5	US-10-732-923-18429 Sequence 18429, A
48	37	69.8	2442	5	US-10-109-886-10 Sequence 10, Appl
49	37	69.8	2442	5	US-10-473-127-631 Sequence 631, App
50	37	69.8	2442	5	US-10-473-127-633 Sequence 633, App
51	37	69.8	2442	5	US-10-473-127-645 Sequence 645, App
52	37	69.8	2442	5	US-10-473-127-647 Sequence 647, App
53	37	69.8	2442	5	US-10-732-923-18450 Sequence 18450, A
54	37	69.8	2442	5	US-10-732-923-18451 Sequence 18451, A
55	37	69.8	2442	5	US-10-840-060-92 Sequence 92, Appl
56	37	69.8	3190	5	US-10-732-923-18448 Sequence 18448, A
57	37	69.8	3275	5	US-10-840-060-90 Sequence 90, Appl
58	37	69.8	3275	6	US-10-840-060-90 Sequence 38103, A
59	37	69.8	3276	6	US-11-097-143-18103 Sequence 18447, A
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62	36	67.9	78	4	US-10-424-599-195375 Sequence 195375, A
63	36	67.9	111	4	US-10-767-701-33165 Sequence 33165, A
64	36	67.9	117	3	US-09-882-227-148 Sequence 148, App
65	36	67.9	117	4	US-10-335-977-6393 Sequence 6393, App
66	36	67.9	122	4	US-10-335-977-6394 Sequence 6394, App
67	36	67.9	181	4	US-10-220-120-302 Sequence 302, App
68	36	67.9	264	4	US-10-363-829-184 Sequence 479, App
69	36	67.9	264	4	US-10-363-829-184 Sequence 479, App
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71	36	67.9	286	3	US-10-266-829-58 Sequence 58, Appl
72	36	67.9	286	5	US-10-878-523-88 Sequence 40097, A
73	36	67.9	291	5	US-10-450-763-10097 Sequence 13674, A
74	36	67.9	296	6	US-11-097-143-13674 Sequence 2051, App
75	36	67.9	298	4	US-09-833-245-2051 Sequence 83, Appl
76	36	67.9	298	4	US-10-266-829-83 Sequence 83, Appl
77	36	67.9	298	5	US-10-878-523-83 Sequence 2306, App
78	36	67.9	306	4	US-10-266-049-2306 Sequence 102, App
79	36	67.9	309	5	US-10-878-523-102 Sequence 102, App
80	36	67.9	309	5	US-10-266-829-105 Sequence 105, App
81	36	67.9	367	5	US-10-266-829-105 Sequence 105, App
82	36	67.9	367	5	US-10-878-523-105 Sequence 246501, A
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92	36	67.9	1963	4	US-10-437-963-106209 Sequence 18333, A
93	36	67.9	2231	5	US-10-369-493-18330 Sequence 18330, App
94	36	67.9	2531	5	US-10-733-923-18433 Sequence 2103, App
95	36	67.9	2531	5	US-10-408-765A-2103 Sequence 2, Appl
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			96	4	US-10-425-115-187724 Sequence 187724, A

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103	35	66.0	143	4	US-10-236-115-1448	Sequence 1448, Ap	176	34	64.2	462	4	US-10-424-599-25512	Sequence 252512, A
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115	35	66.0	395	5	US-10-732-923-7531	Sequence 7531, Ap	188	34	64.2	628	4	US-10-425-114-60118	Sequence 60118, A
116	35	66.0	428	4	US-10-389-566-2022	Sequence 2022, Ap	189	34	64.2	630	6	US-11-097-143-11157	Sequence 11157, A
117	35	66.0	708	4	US-10-108-260A-4329	Sequence 4329, Ap	190	34	64.2	632	4	US-10-437-963-155187	Sequence 155187, A
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122	35	66.0	814	4	US-10-098-108-7	Sequence 7, Appl1	195	34	64.2	725	5	US-10-951-163-77	Sequence 77, Appl1
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126	35	66.0	2414	5	US-10-473-127-634	Sequence 634, Ap	199	34	64.2	760	4	US-10-408-765A-2499	Sequence 2499, Ap
127	35	66.0	2414	5	US-10-473-127-641	Sequence 641, Ap	200	34	64.2	805	4	US-10-080-334-115	Sequence 115, Ap
128	35	66.0	2414	5	US-10-473-127-642	Sequence 642, Ap	201	34	64.2	806	4	US-10-080-334-114	Sequence 114, Ap
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132	35	66.0	2414	5	US-10-756-149-5732	Sequence 5732, Ap	205	34	64.2	845	4	US-10-424-599-151205	Sequence 151205, A
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135	34	64.2	43	5	US-10-721-793-204	Sequence 204, Ap	208	34	64.2	940	4	US-10-282-122A-52332	Sequence 52332, A
136	34	64.2	43	5	US-10-721-793-218	Sequence 218, Ap	209	34	64.2	1036	4	US-10-322-281-160	Sequence 160, Ap
137	34	64.2	43	5	US-10-721-793-220	Sequence 220, Ap	210	34	64.2	1037	4	US-10-437-963-158055	Sequence 158055, A
138	34	64.2	43	5	US-10-721-793-226	Sequence 226, Ap	211	34	64.2	1038	4	US-10-322-281-157	Sequence 157, Ap
139	34	64.2	43	5	US-10-721-793-228	Sequence 228, Ap	212	34	64.2	1052	5	US-10-631-467-699	Sequence 699, Ap
140	34	64.2	43	5	US-10-721-793-230	Sequence 230, Ap	213	34	64.2	1052	5	US-10-631-467-760	Sequence 760, Ap
141	34	64.2	43	5	US-10-721-793-232	Sequence 232, Ap	214	34	64.2	1082	4	US-10-437-963-167162	Sequence 167162, A
142	34	64.2	43	5	US-10-721-793-234	Sequence 234, Ap	215	34	64.2	1086	4	US-10-437-963-104962	Sequence 104962, A
143	34	64.2	43	5	US-10-721-793-236	Sequence 236, Ap	216	34	64.2	1103	5	US-10-739-930-6650	Sequence 6650, Ap
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145	34	64.2	43	5	US-10-721-793-280	Sequence 280, Ap	218	34	64.2	1189	4	US-10-437-963-156044	Sequence 156044, A
146	34	64.2	61	4	US-10-424-599-168262	Sequence 168262, A	219	34	64.2	1305	4	US-10-282-122A-76741	Sequence 76741, A
147	34	64.2	66	3	US-09-764-868-1184	Sequence 1184, Ap	220	34	64.2	1525	3	US-09-782-714-1	Sequence 1, Appl1
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152	34	64.2	137	4	US-10-437-963-143525	Sequence 143525, A	225	34	64.2	3242	6	US-11-097-143-3363	Sequence 3363, Ap
153	34	64.2	140	4	US-10-767-701-38586	Sequence 38586, A	226	34	64.2	4823	4	US-10-051-874-169	Sequence 169, Ap
154	34	64.2	149	6	US-11-021-949-18	Sequence 18, Appl1	227	33	62.3	14	5	US-10-433-919-12	Sequence 12, Appl1
155	34	64.2	157	4	US-10-424-599-146765	Sequence 146765, A	228	33	62.3	14	5	US-10-433-919-13	Sequence 13, Appl1
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157	34	64.2	167	4	US-10-425-114-64865	Sequence 64865, A	230	33	62.3	41	4	US-10-724-972A-4458	Sequence 4458, Ap
158	34	64.2	174	4	US-10-425-115-551731	Sequence 551731, A	231	33	62.3	49	4	US-10-424-599-216774	Sequence 216774, A
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162	34	64.2	211	4	US-10-425-115-297657	Sequence 297657, A	235	33	62.3	70	4	US-10-425-115-323882	Sequence 323882, A
163	34	64.2	221	4	US-10-424-599-211530	Sequence 211530, A	236	33	62.3	76	4	US-10-424-599-245729	Sequence 245729, A
164	34	64.2	224	4	US-10-425-114-55395	Sequence 55395, A	237	33	62.3	76	4	US-10-437-963-110982	Sequence 110982, A
165	34	64.2	245	4	US-10-437-963-165376	Sequence 165376, A	238	33	62.3	79	4	US-10-425-115-346113	Sequence 346113, A
166	34	64.2	294	4	US-10-282-122A-65382	Sequence 65382, A	239	33	62.3	85	3	US-09-919-901-13	Sequence 6, Appl1
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168	34	64.2	317	4	US-10-424-599-172901	Sequence 172901, A	241	33	62.3	85	4	US-10-191-966-6	Sequence 20, Appl1
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172	34	64.2	369	4	US-10-029-386-32119	Sequence 32119, A	245	33	62.3	96	4	US-10-424-599-151922	Sequence 151922, A
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248	33	62.3	120	4	US-10-424-599-177089	Sequence 177089, A	321	33	62.3	392	4	US-10-425-115-275858	Sequence 275858, A
249	33	62.3	124	5	US-10-128-558-240	Sequence 240, App	322	33	62.3	397	6	US-11-097-143-39264	Sequence 39264, A
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251	33	62.3	139	4	US-10-437-963-121605	Sequence 121605, A	324	33	62.3	400	4	US-10-322-696-105	Sequence 105, App
252	33	62.3	139	4	US-10-767-701-41080	Sequence 41080, A	325	33	62.3	421	4	US-10-695-577-2	Sequence 2, App1
253	33	62.3	139	4	US-10-425-115-199043	Sequence 199043, A	326	33	62.3	421	4	US-10-695-577-4	Sequence 4, App1
254	33	62.3	142	5	US-10-450-763-43504	Sequence 43504, A	327	33	62.3	427	4	US-10-425-115-304190	Sequence 59337, A
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256	33	62.3	145	4	US-10-425-115-257222	Sequence 257222, A	329	33	62.3	443	6	US-11-097-143-46214	Sequence 42472, A
257	33	62.3	148	5	US-10-501-282-4218	Sequence 4218, App	330	33	62.3	478	5	US-10-425-114-42472	Sequence 60, App1
258	33	62.3	155	6	US-11-021-949-22	Sequence 22, App1	331	33	62.3	491	4	US-10-367-057-60	Sequence 308737, A
259	33	62.3	155	6	US-11-021-949-23	Sequence 23, App1	332	33	62.3	494	4	US-10-416-316-8	Sequence 8, App1
260	33	62.3	161	4	US-10-377-079-64	Sequence 64, App1	333	33	62.3	517	4	US-10-094-749-45508	Sequence 2508, App
261	33	62.3	169	4	US-10-038-854-365	Sequence 365, App	334	33	62.3	517	4	US-10-694-711-6	Sequence 6, App1
262	33	62.3	177	3	US-09-864-761-38981	Sequence 38981, A	335	33	62.3	521	6	US-11-097-143-9918	Sequence 9918, App
263	33	62.3	177	4	US-10-425-114-40469	Sequence 40469, A	336	33	62.3	524	4	US-10-027-806-10	Sequence 10, App1
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265	33	62.3	183	4	US-10-425-115-349243	Sequence 349243, A	338	33	62.3	524	4	US-10-027-801-10	Sequence 10, App1
266	33	62.3	184	4	US-10-424-599-180089	Sequence 180089, A	339	33	62.3	524	4	US-10-029-120-10	Sequence 32, App1
267	33	62.3	189	4	US-10-425-114-71223	Sequence 71223, A	340	33	62.3	530	4	US-10-655-799-12	Sequence 10, App1
268	33	62.3	193	4	US-10-425-115-202932	Sequence 202932, A	341	33	62.3	530	4	US-10-655-799-12	Sequence 10, App1
269	33	62.3	195	5	US-10-450-763-56693	Sequence 56693, A	342	33	62.3	567	5	US-10-989-891-130	Sequence 31, App1
270	33	62.3	197	3	US-09-864-408A-1106	Sequence 7106, App	343	33	62.3	570	4	US-10-491-472-31	Sequence 3, App1
271	33	62.3	204	4	US-10-424-599-237834	Sequence 273834, A	344	33	62.3	579	5	US-10-491-472-31	Sequence 1063, App
272	33	62.3	208	4	US-10-767-701-373769	Sequence 373769, A	345	33	62.3	585	4	US-10-416-864-1063	Sequence 6, App1
273	33	62.3	212	4	US-10-425-115-315381	Sequence 315381, A	346	33	62.3	595	3	US-10-416-864-1063	Sequence 1, App1
274	33	62.3	216	4	US-10-282-1122A-46134	Sequence 46134, A	347	33	62.3	604	5	US-10-205-342-1	Sequence 13443, A
275	33	62.3	218	4	US-10-767-701-36133	Sequence 36133, A	348	33	62.3	604	5	US-10-732-923-13443	Sequence 53, App1
276	33	62.3	219	4	US-10-437-963-204471	Sequence 204471, A	349	33	62.3	606	4	US-10-440-341-5	Sequence 53, App1
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278	33	62.3	228	3	US-09-815-242-10077	Sequence 10077, A	351	33	62.3	606	4	US-10-311-527-4	Sequence 1815, App
279	33	62.3	228	4	US-10-282-122A-56458	Sequence 56458, A	352	33	62.3	606	5	US-10-473-127-1815	Sequence 1816, App
280	33	62.3	228	4	US-10-424-599-242913	Sequence 242913, A	353	33	62.3	606	5	US-10-473-127-1816	Sequence 1818, App
281	33	62.3	257	4	US-10-767-701-37546	Sequence 37546, A	354	33	62.3	606	5	US-10-473-127-1819	Sequence 1819, App
282	33	62.3	261	4	US-10-112-944-435	Sequence 435, App	355	33	62.3	606	5	US-10-473-127-1819	Sequence 1820, App
283	33	62.3	268	5	US-10-732-923-18438	Sequence 18438, A	356	33	62.3	606	5	US-10-473-127-1821	Sequence 1821, App
284	33	62.3	270	4	US-10-104-047-3374	Sequence 3274, App	357	33	62.3	606	5	US-10-473-127-1821	Sequence 1821, App
285	33	62.3	302	5	US-10-739-930-9885	Sequence 9885, App	358	33	62.3	606	5	US-10-732-923-13689	Sequence 13689, A
286	33	62.3	302	4	US-10-767-701-41911	Sequence 41911, A	359	33	62.3	606	5	US-10-491-545A-2	Sequence 4, App1
287	33	62.3	315	4	US-10-425-114-47323	Sequence 47323, A	360	33	62.3	606	5	US-10-491-545A-4	Sequence 2, App1
288	33	62.3	316	4	US-10-126-099-5	Sequence 5, App1	361	33	62.3	606	5	US-10-756-149-5371	Sequence 5371, App
289	33	62.3	331	3	US-09-764-864-866	Sequence 866, App	362	33	62.3	606	5	US-10-473-127-1817	Sequence 1822, App
290	33	62.3	336	3	US-09-771-161A-174	Sequence 174, App1	363	33	62.3	609	5	US-10-473-127-1822	Sequence 1822, App
291	33	62.3	342	4	US-10-038-854-22	Sequence 22, App1	364	33	62.3	618	4	US-10-425-115-26533	Sequence 26533, A
292	33	62.3	343	3	US-09-908-744-70	Sequence 70, App1	365	33	62.3	618	4	US-11-097-143-8331	Sequence 8331, App
293	33	62.3	343	3	US-10-369-493-17108	Sequence 17108, A	366	33	62.3	644	4	US-10-425-114-59459	Sequence 59459, A
294	33	62.3	345	5	US-10-454-246-144	Sequence 184, App	367	33	62.3	653	4	US-11-097-143-26889	Sequence 26889, A
295	33	62.3	346	5	US-10-739-930-5798	Sequence 5798, App	368	33	62.3	666	6	US-11-097-143-26892	Sequence 26892, A
296	33	62.3	347	4	US-10-118-804-17	Sequence 17, App1	369	33	62.3	666	6	US-11-097-143-26895	Sequence 26895, A
297	33	62.3	361	6	US-11-097-143-31665	Sequence 31665, A	370	33	62.3	666	6	US-11-097-143-26895	Sequence 26898, A
298	33	62.3	361	3	US-09-826-509-433	Sequence 433, App	371	33	62.3	666	6	US-11-097-143-26895	Sequence 26958, A
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302	33	62.3	366	4	US-10-352-684A-6	Sequence 6, App1	375	33	62.3	698	5	US-10-809-075-2	Sequence 265, App
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304	33	62.3	368	4	US-10-424-599-277114	Sequence 277114, A	377	33	62.3	740	3	US-10-872-645-3	Sequence 354, App
305	33	62.3	370	5	US-10-454-246-182	Sequence 182, App	378	33	62.3	740	5	US-10-745-231-354	Sequence 118054, A
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312	33	62.3	389	5	US-10-322-696-108	Sequence 108, App1	385	33	62.3	783	5	US-10-450-763-57410	Sequence 57410, A
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314	33	62.3	389	5	US-10-678-639-26	Sequence 26, App1	387	33	62.3	791	5	US-10-473-127-193-32	Sequence 32, App1
315	33	62.3	389	5	US-10-847-972-34	Sequence 34, App1	388	33	62.3	796	4	US-10-377-079-2	Sequence 2, App1
316	33	62.3	389	5	US-10-847-972-72	Sequence 72, App1	389	33	62.3	822	4	US-10-425-114-62784	Sequence 62784, A
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395	33	62.3	970	5	US-10-775-204-1641	Sequence 1641, Ap	468	32	60.4	162	3	US-09-798-789-11	Sequence 11, Appl1
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418	33	62.3	2307	4	US-10-191-966-9	Sequence 9, Appl1	491	32	60.4	233	4	US-10-425-115-333687	Sequence 333687,
419	33	62.3	2307	4	US-10-191-966-16	Sequence 16, Appl1	492	32	60.4	240	4	US-10-369-493-13535	Sequence 13535, A
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423	32.5	61.3	566	4	US-10-177-478-12	Sequence 12, Appl1	496	32	60.4	252	4	US-10-788-792-159	Sequence 159, App
424	32	60.4	14	5	US-10-433-919-9	Sequence 9, Appl1	497	32	60.4	256	4	US-10-289-762-910	Sequence 910, Appl
425	32	60.4	14	5	US-10-433-919-9	Sequence 9, Appl1	498	32	60.4	258	3	US-09-898-837A-26	Sequence 26, Appl1
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433	32	60.4	37	4	US-10-282-1224-76435	Sequence 76435, A	506	32	60.4	310	4	US-10-369-493-1180	Sequence 1180, Ap
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437	32	60.4	43	5	US-10-721-793-210	Sequence 210, App	510	32	60.4	330	4	US-10-205-194-142	Sequence 142, App
438	32	60.4	43	5	US-10-721-793-212	Sequence 212, App	511	32	60.4	333	4	US-10-424-599-241165	Sequence 241165,
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441	32	60.4	43	5	US-10-721-793-274	Sequence 274, App	514	32	60.4	372	4	US-10-437-963-198696	Sequence 198696,
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446	32	60.4	70	5	US-10-450-763-80098	Sequence 40098, A	519	32	60.4	333	4	US-10-776-774-2331	Sequence 2331, Ap
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449	32	60.4	88	4	US-10-425-115-278894	Sequence 278894,	522	32	60.4	337	5	US-10-473-127-1139	Sequence 1139, Ap
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453	32	60.4	102	5	US-10-472-928-322	Sequence 322, App	526	32	60.4	337	5	US-10-473-127-1145	Sequence 1145, Ap
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541	32	60.4	421	4	US-10-282-122A-54977	Sequence 54977, A	614	32	60.4	630	5	US-10-473-127-247	Sequence 247, App
542	32	60.4	421	5	US-10-275-652-12	Sequence 12, Appl	615	32	60.4	630	5	US-10-473-127-248	Sequence 248, App
543	32	60.4	422	4	US-10-424-232-2	Sequence 2, Appl	616	32	60.4	630	5	US-10-473-127-249	Sequence 249, App
544	32	60.4	422	4	US-10-695-577-5	Sequence 5, Appl	617	32	60.4	636	4	US-10-381-327-7	Sequence 7, Appl
545	32	60.4	422	5	US-10-287-436A-559	Sequence 559, App	618	32	60.4	637	6	US-11-097-143-12783	Sequence 12783, A
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551	32	60.4	431	5	US-10-477-238A-669	Sequence 669, App	624	32	60.4	685	5	US-10-756-149-4897	Sequence 4897, App
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564	32	60.4	472	4	US-10-425-114-55988	Sequence 55988, A	637	32	60.4	790	5	US-10-996-058-42	Sequence 42, Appl
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846	31	58.5	363	4	US-10-424-599-201039	Sequence 201039, A	919	31	58.5	483	4	US-10-389-566-1195	Sequence 1195, Ap
847	31	58.5	369	5	US-10-450-763-36743	Sequence 36743, A	920	31	58.5	488	4	US-10-215-060-1	Sequence 1, Appl1
848	31	58.5	374	4	US-10-062-831-83	Sequence 83, Appl	921	31	58.5	488	4	US-10-389-566-2234	Sequence 2234, Ap
849	31	58.5	374	4	US-10-062-599-83	Sequence 83, Appl	922	31	58.5	495	4	US-10-215-060-2	Sequence 2, Appl1
850	31	58.5	374	4	US-10-170-385-417	Sequence 417, Appl	923	31	58.5	495	4	US-10-369-493-1463	Sequence 1463, Ap
851	31	58.5	374	4	US-10-369-493-7026	Sequence 7026, Ap	924	31	58.5	495	4	US-10-389-566-2105	Sequence 2105, Ap
852	31	58.5	374	4	US-10-369-493-15536	Sequence 15536, A	925	31	58.5	495	4	US-10-389-566-2121	Sequence 2121, Ap
853	31	58.5	375	5	US-10-732-923-757	Sequence 757, Appl	926	31	58.5	495	4	US-10-389-566-2185	Sequence 2185, Ap
854	31	58.5	377	5	US-10-369-493-15907	Sequence 15907, A	927	31	58.5	497	4	US-10-389-566-1832	Sequence 1832, Ap
855	31	58.5	377	4	US-10-369-493-16278	Sequence 16278, A	928	31	58.5	498	4	US-10-104-047-2548	Sequence 2548, Ap
856	31	58.5	387	6	US-11-097-143-18171	Sequence 18171, A	929	31	58.5	501	4	US-10-369-493-1581	Sequence 1581, Ap
857	31	58.5	388	4	US-10-479-435-8	Sequence 9, Appl1	930	31	58.5	501	4	US-10-425-115-268625	Sequence 268625, A
858	31	58.5	388	5	US-10-947-052-9	Sequence 9, Appl1	931	31	58.5	521	4	US-10-059-271-90	Sequence 90, Appl1
859	31	58.5	389	4	US-10-424-599-206539	Sequence 206539, A	932	31	58.5	522	4	US-10-220-120-267	Sequence 267, Appl
860	31	58.5	391	4	US-10-424-599-186536	Sequence 186536, A	933	31	58.5	525	3	US-09-470-526-9	Sequence 9, Appl1
861	31	58.5	391	4	US-10-437-963-202800	Sequence 202800, A	934	31	58.5	527	4	US-10-369-493-3588	Sequence 3588, Ap
862	31	58.5	398	4	US-10-425-115-273130	Sequence 273130, A	935	31	58.5	529	4	US-10-389-566-2048	Sequence 2048, Ap
863	31	58.5	402	4	US-10-221-625-36	Sequence 36, Appl	936	31	58.5	532	4	US-10-703-292-3	Sequence 3, Appl1
864	31	58.5	403	5	US-10-972-024-266	Sequence 266, Appl	937	31	58.5	530	4	US-10-425-115-125616	Sequence 125616, A
865	31	58.5	403	3	US-09-470-526-2	Sequence 2, Appl1	938	31	58.5	531	4	US-10-437-963-125431	Sequence 125431, A
866	31	58.5	403	4	US-10-029-386-32933	Sequence 32933, A	939	31	58.5	532	4	US-10-425-115-185214	Sequence 285214, A
867	31	58.5	406	4	US-10-104-047-3010	Sequence 3010, Ap	940	31	58.5	533	4	US-10-425-115-185214	Sequence 185214, A
868	31	58.5	406	4	US-10-472-385-8	Sequence 8, Appl1	941	31	58.5	533	4	US-10-369-493-12632	Sequence 12632, A
869	31	58.5	406	4	US-10-472-385-10	Sequence 10, Appl	942	31	58.5	533	4	US-10-437-963-189604	Sequence 189604, A
870	31	58.5	407	4	US-10-425-115-325621	Sequence 325621, A	943	31	58.5	533	4	US-10-437-963-189604	Sequence 189604, A
871	31	58.5	407	4	US-10-425-115-325621	Sequence 154350, A	944	31	58.5	533	4	US-10-437-963-189604	Sequence 189604, A
872	31	58.5	416	4	US-10-437-963-144350	Sequence 937, Appl	945	31	58.5	533	4	US-10-437-963-189604	Sequence 189604, A
873	31	58.5	416	4	US-10-101-464A-937	Sequence 937, Appl	946	31	58.5	533	4	US-10-437-963-189604	Sequence 189604, A
874	31	58.5	416	5	US-10-864-252-937	Sequence 52429, A	947	31	58.5	533	4	US-10-437-963-189604	Sequence 189604, A
875	31	58.5	416	5	US-10-450-763-52429	Sequence 52429, A	948	31	58.5	533	4	US-10-437-963-189604	Sequence 189604, A
876	31	58.5	417	4	US-10-389-566-11778	Sequence 11778, Ap	949	31	58.5	533	4	US-10-437-963-189604	Sequence 189604, A
877	31	58.5	417	4	US-10-389-566-1571	Sequence 1571, Ap	950	31	58.5	533	4	US-10-437-963-189604	Sequence 189604, A
878	31	58.5	419	4	US-10-389-566-1572	Sequence 1572, Ap	951	31	58.5	533	4	US-10-437-963-189604	Sequence 189604, A
879	31	58.5	419	4	US-10-389-566-1590	Sequence 1590, Ap	952	31	58.5	533	4	US-10-437-963-189604	Sequence 189604, A
880	31	58.5	419	4	US-10-282-122A-46699	Sequence 46699, A	953	31	58.5	533	4	US-10-437-963-189604	Sequence 189604, A
881	31	58.5	419	4	US-10-282-122A-52115	Sequence 52115, A	954	31	58.5	533	4	US-10-437-963-189604	Sequence 189604, A
882	31	58.5	419	4	US-10-282-122A-60894	Sequence 60894, A	955	31	58.5	533	4	US-10-437-963-189604	Sequence 189604, A
883	31	58.5	419	5	US-10-947-052-10	Sequence 10, Appl	956	31	58.5	533	4	US-10-437-963-189604	Sequence 189604, A
884	31	58.5	420	4	US-10-389-566-1110	Sequence 1110, Ap	957	31	58.5	533	4	US-10-437-963-189604	Sequence 189604, A
885	31	58.5	420	4	US-10-389-566-1971	Sequence 1971, Ap	958	31	58.5	533	4	US-10-437-963-189604	Sequence 189604, A
886	31	58.5	420	4	US-10-389-566-1987	Sequence 1987, Ap	959	31	58.5	533	4	US-10-437-963-189604	Sequence 189604, A
887	31	58.5	421	4	US-10-389-566-1791	Sequence 1791, Ap	960	31	58.5	533	4	US-10-437-963-189604	Sequence 189604, A
888	31	58.5	421	5	US-10-510-813-66	Sequence 66, Appl	961	31	58.5	533	4	US-10-437-963-189604	Sequence 189604, A
889	31	58.5	423	5	US-10-947-052-11	Sequence 11, Appl	962	31	58.5	533	4	US-10-437-963-189604	Sequence 189604, A
890	31	58.5	424	4	US-10-389-566-1000	Sequence 1000, Ap	963	31	58.5	533	4	US-10-437-963-189604	Sequence 189604, A
891	31	58.5	425	4	US-10-389-566-1529	Sequence 1529, Ap	964	31	58.5	533	4	US-10-437-963-189604	Sequence 189604, A
892	31	58.5	426	3	US-09-738-626-6119	Sequence 6119, Ap	965	31	58.5	533	4	US-10-437-963-189604	Sequence 189604, A
893	31	58.5	426	4	US-10-389-566-1870	Sequence 1870, Ap	966	31	58.5	533	4	US-10-437-963-189604	Sequence 189604, A
894	31	58.5	426	5	US-10-721-922A-162	Sequence 162, Appl	967	31	58.5	533	4	US-10-437-963-189604	Sequence 189604, A
895	31	58.5	426	5	US-10-721-922A-164	Sequence 164, Appl	968	31	58.5	533	4	US-10-437-963-189604	Sequence 189604, A
896	31	58.5	426	5	US-10-721-922A-164	Sequence 52314, A	969	31	58.5	533	4	US-10-437-963-189604	Sequence 189604, A
897	31	58.5	429	4	US-10-282-122A-52314	Sequence 52314, A	970	31	58.5	533	4	US-10-437-963-189604	Sequence 189604, A
898	31	58.5	430	4	US-10-282-122A-54008	Sequence 54008, A	971	31	58.5	533	4	US-10-437-963-189604	Sequence 189604, A
899	31	58.5	431	4	US-10-389-566-1754	Sequence 1754, Ap	972	31	58.5	533	4	US-10-437-963-189604	Sequence 189604, A
900	31	58.5	431	4	US-10-389-566-2030	Sequence 2030, Ap	973	31	58.5	533	4	US-10-437-963-189604	Sequence 189604, A
901	31	58.5	432	4	US-10-389-566-1574	Sequence 1574, Ap	974	31	58.5	533	4	US-10-437-963-189604	Sequence 189604, A
902	31	58.5	432	4	US-10-389-566-1574	Sequence 51746, A	975	31	58.5	533	4	US-10-437-963-189604	Sequence 189604, A
903	31	58.5	437	3	US-09-808-566-1432	Sequence 1432, Ap	976	31	58.5	533	4	US-10-437-963-189604	Sequence 189604, A

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977 31 58.5 723 4 US-10-425-114-38957 Sequence 38957, A
978 31 58.5 743 4 US-10-282-122A-76874 Sequence 76874, A
979 31 58.5 746 4 US-10-282-122A-72949 Sequence 72949, A
980 31 58.5 773 4 US-10-408-693-5 Sequence 5, Appl1
981 31 58.5 780 5 US-10-996-058-44 Sequence 44, Appl1
982 31 58.5 783 3 US-09-888-615-67 Sequence 67, Appl1
983 31 58.5 792 4 US-10-369-493-1962 Sequence 1962, Ap
984 31 58.5 795 4 US-10-314-657-43 Sequence 43, Appl1
985 31 58.5 795 5 US-10-473-193-43 Sequence 43, Appl1
986 31 58.5 797 4 US-10-333-314-7 Sequence 7, Appl1
987 31 58.5 799 4 US-10-236-392-58 Sequence 58, Appl1
988 31 58.5 801 4 US-10-408-693-7 Sequence 7, Appl1
989 31 58.5 804 4 US-10-408-693-2 Sequence 2, Appl1
990 31 58.5 804 4 US-10-618-941-122 Sequence 122, App
991 31 58.5 805 4 US-10-369-493-1769 Sequence 1769, Ap
992 31 58.5 816 4 US-10-101-464A-827 Sequence 827, App
993 31 58.5 816 5 US-10-864-252-827 Sequence 827, App
994 31 58.5 819 4 US-10-437-963-151529 Sequence 151529,
995 31 58.5 822 4 US-10-645-250A-8 Sequence 8, Appl1
996 31 58.5 827 4 US-10-470-991-3 Sequence 3, Appl1
997 31 58.5 827 6 US-11-097-143-5541 Sequence 5541, Ap
998 31 58.5 831 4 US-10-273-680-2 Sequence 2, Appl1
999 31 58.5 831 4 US-10-087-887-65 Sequence 65, Appl1
1000 31 58.5 831 4 US-10-087-887-72 Sequence 72, Appl1
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ALIGNMENTS

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RESULT 1
US-10-476-570-11
; Sequence 11, Application US/10476570
; Publication No. US20040170644A1
; GENERAL INFORMATION:
; APPLICANT: COMMISSARIAT A L'ENERGIE ATOMIQUE
; APPLICANT: INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE
; APPLICANT: MAILLIER, Bernard
; APPLICANT: BOURGAULT-VILLADA, Isabelle
; APPLICANT: POUVELLE-MORTAILLE, Sandra
; TITLE OF INVENTION: Mixture of peptides derived from B6 and/or E7
; TITLE OF INVENTION: Papillomavirus proteins and uses thereof
; FILE REFERENCE: 45636-5071-US
; CURRENT APPLICATION NUMBER: US/10/476,570
; CURRENT FILING DATE: 2003-11-04
; PRIOR APPLICATION NUMBER: PCT/FR02/01533
; PRIOR FILING DATE: 2002-05-03
; PRIOR APPLICATION NUMBER: FR 01 05980
; PRIOR FILING DATE: 2001-05-04
; NUMBER OF SEQ ID NOS: 63
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 11
; LENGTH: 20
; TYPE: PRT
; ORGANISM: artificial sequence
; FEATURE:
; OTHER INFORMATION: Description of the artificial sequence: peptide B6 61-80
US-10-476-570-11
Query Match 100.0%; Score 53; DB 4; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.19;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 YAVCDKCLK 9
Db 7 YAVCDKCLK 15
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RESULT 2
US-10-612-818-4
; Sequence 4, Application US/10612818
; Publication No. US20040110925A1
; GENERAL INFORMATION:
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; APPLICANT: Impact Diagnostics
; APPLICANT: Impact Diagnostics
; TITLE OF INVENTION: Peptides from the E2, E6 and E7 Proteins of Human Papillomaviruses
; TITLE OF INVENTION: 18 for Detecting and/or Diagnosing Cervical and Other Human Papill
; FILE REFERENCE: 3352-2-2
; CURRENT APPLICATION NUMBER: US/10/612,818
; CURRENT FILING DATE: 2003-07-01
; PRIOR APPLICATION NUMBER: US 60/394,172
; PRIOR FILING DATE: 2002-07-02
; PRIOR APPLICATION NUMBER: US 09/828,645
; PRIOR FILING DATE: 2001-04-05
; NUMBER OF SEQ ID NOS: 8
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 4
; LENGTH: 22
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Derived from the B6 early coding region of HPV 16
US-10-612-818-4
Query Match 100.0%; Score 53; DB 4; Length 22;
Best Local Similarity 100.0%; Pred. No. 0.2;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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QY 1 YAVCDKCLK 9
Db 6 YAVCDKCLK 14
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RESULT 3
US-10-995-902-4
; Sequence 4, Application US/10995902
; Publication No. US20050221295A1
; GENERAL INFORMATION:
; APPLICANT: Impact Diagnostics
; APPLICANT: Impact Diagnostics
; TITLE OF INVENTION: Peptides from the E2, E6 and E7 Proteins of Human Papillomaviruses
; TITLE OF INVENTION: 18 for Detecting and/or Diagnosing Cervical and Other Human Papill
; FILE REFERENCE: 3352-2-2
; CURRENT APPLICATION NUMBER: US/10/995,902
; CURRENT FILING DATE: 2004-11-23
; PRIOR APPLICATION NUMBER: US 60/394,172
; PRIOR FILING DATE: 2002-07-02
; PRIOR APPLICATION NUMBER: US 09/828,645
; PRIOR FILING DATE: 2001-04-05
; NUMBER OF SEQ ID NOS: 8
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 4
; LENGTH: 22
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Derived from the B6 early coding region of HPV 16
US-10-995-902-4
Query Match 100.0%; Score 53; DB 5; Length 22;
Best Local Similarity 100.0%; Pred. No. 0.2;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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QY 1 YAVCDKCLK 9
Db 6 YAVCDKCLK 14
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RESULT 4
US-10-177-390-6
; Sequence 6, Application US/10177390
; Publication No. US20030143743A1
; GENERAL INFORMATION:
; APPLICANT: Schuler, Gerold
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; APPLICANT: N.V. Antwerp Immovatiecentrum
; TITLE OF INVENTION: Improved Transfection of Eucaryotic Cells with Linear
; FILE OF INVENTION: Polynucleotides by Electroporation
; FILE REFERENCE: 021505wo/JH/ml
; CURRENT APPLICATION NUMBER: US/10/177,390
; NUMBER OF SEQ ID NOS: 34
; SOFTWARE: Patent In Ver. 2.1
; SEQ ID NO 6
; LENGTH: 151
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-10-177-390-6
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Query Match          100.0%; Score 53; DB 4; Length 151;
Best Local Similarity 100.0%; Pred. No. 1.1;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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QY      1 YAVCDKCLK 9
      |||||
      60 YAVCDKCLK 68
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RESULT 5
US-10-484-063-20
; Sequence 20, Application US/10484063
; Publication No. US20050048467A1
; GENERAL INFORMATION:
; APPLICANT: SASTRY, K. JAGANNADHA
; APPLICANT: TORTOLERO-LUNA, GUILERMO
; APPLICANT: FOLLEN, MICHELE
; TITLE OF INVENTION: METHODS AND COMPOSITIONS RELATING TO HPV-ASSOCIATED
; FILE OF INVENTION: PRE-CANCEROUS AND CANCEROUS GROWTHS, INCLUDING CIN
; FILE REFERENCE: UTSC:560US
; CURRENT APPLICATION NUMBER: US/10/484,063
; CURRENT FILING DATE: 2004-01-16
; PRIOR APPLICATION NUMBER: PCT/US02/23198
; PRIOR FILING DATE: 2002-07-19
; PRIOR APPLICATION NUMBER: 60/306,809
; PRIOR FILING DATE: 2001-07-20
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: Patent In Ver. 2.1
; SEQ ID NO 20
; LENGTH: 151
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-484-063-20
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Query Match          100.0%; Score 53; DB 5; Length 151;
Best Local Similarity 100.0%; Pred. No. 1.1;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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QY      1 YAVCDKCLK 9
      |||||
      60 YAVCDKCLK 68
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RESULT 6
US-10-484-063-27
; Sequence 27, Application US/10484063
; Publication No. US20050048467A1
; GENERAL INFORMATION:
; APPLICANT: SASTRY, K. JAGANNADHA
; APPLICANT: TORTOLERO-LUNA, GUILERMO
; APPLICANT: FOLLEN, MICHELE
; TITLE OF INVENTION: METHODS AND COMPOSITIONS RELATING TO HPV-ASSOCIATED
; FILE OF INVENTION: PRE-CANCEROUS AND CANCEROUS GROWTHS, INCLUDING CIN
; FILE REFERENCE: UTSC:560US
; CURRENT APPLICATION NUMBER: US/10/484,063
; CURRENT FILING DATE: 2004-01-16
; PRIOR APPLICATION NUMBER: PCT/US02/23198
; PRIOR FILING DATE: 2002-07-19
; PRIOR APPLICATION NUMBER: 60/306,809
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; PRIOR FILING DATE: 2001-07-20
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: Patent In Ver. 2.1
; SEQ ID NO 27
; LENGTH: 151
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-10-484-063-27
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Query Match          100.0%; Score 53; DB 5; Length 151;
Best Local Similarity 100.0%; Pred. No. 1.1;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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QY      1 YAVCDKCLK 9
      |||||
      60 YAVCDKCLK 68
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RESULT 7
US-10-858-384-2
; Sequence 2, Application US/10858384
; Publication No. US20050033025A1
; GENERAL INFORMATION:
; APPLICANT: CHOPPIN, JEANNINE
; APPLICANT: BOURGAULT VILLADA, ISABELLE
; APPLICANT: GUILLET, JEAN-GERARD
; APPLICANT: CONNAN, FRANCINE
; APPLICANT: FERRIES, ESTELLE
; TITLE OF INVENTION: POLYPEPTIDIC PROTEIN FRAGMENTS OF THE E6 PROTEIN
; FILE OF INVENTION: OR E7 OF HPV, THEIR PRODUCTION AND THEIR USE
; TITLE OF INVENTION: PARTICULARLY IN VACCINATION
; FILE REFERENCE: 0508-1037-1
; CURRENT APPLICATION NUMBER: US/10/858,384
; CURRENT FILING DATE: 2004-06-02
; PRIOR APPLICATION NUMBER: FR 9907012
; PRIOR FILING DATE: 1999-06-03
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: Patent In Ver. 3.2
; SEQ ID NO 2
; LENGTH: 158
; TYPE: PRT
; ORGANISM: Human Papillomavirus
US-10-858-384-2
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Query Match          100.0%; Score 53; DB 5; Length 158;
Best Local Similarity 100.0%; Pred. No. 1.1;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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QY      1 YAVCDKCLK 9
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      67 YAVCDKCLK 75
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RESULT 8
US-10-367-057-16
; Sequence 16, Application US/10367057
; Publication No. US20050100554A1
; GENERAL INFORMATION:
; APPLICANT: Cuthill, Scott;
; APPLICANT: Jackson, Amanda;
; APPLICANT: Lewin, David A.;
; APPLICANT: Ooi, Chean Eng
; TITLE OF INVENTION: Complexes and Methods of Using Same
; FILE REFERENCE: 21402-559
; CURRENT APPLICATION NUMBER: US/10/367,057
; CURRENT FILING DATE: 2003-02-14
; PRIOR APPLICATION NUMBER: 60/256,911
; PRIOR FILING DATE: 2002-02-14
; NUMBER OF SEQ ID NOS: 198
; SOFTWARE: Cuiaseqlet version 0.1
; SEQ ID NO 16
; LENGTH: 158
; TYPE: PRT
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ORGANISM: Homo sapiens
US-10-367-057-16

Query Match 100.0%; Score 53; DB 5; Length 158;
Best Local Similarity 100.0%; Pred. No. 1.1;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 YAVCDKCLK 9
Db 67 YAVCDKCLK 75

RESULT 9
US-11-021-949-13
Sequence 13, Application US/11021949
Publication No. US20050142541A1
GENERAL INFORMATION:
APPLICANT: LU, PETER
APPLICANT: GARMAN, JONATHAN DAVID
APPLICANT: BELMARES, MICHAEL P.
APPLICANT: DIAZ-SARMIENTO, CHAMORRO SOMOZA
APPLICANT: SCHEIZER, JOHANNES
TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
FILE REFERENCE: VITA-012
CURRENT APPLICATION NUMBER: US/11/021,949
CURRENT FILING DATE: 2004-12-23
PRIOR APPLICATION NUMBER: 60/532,373
PRIOR FILING DATE: 2003-12-23
NUMBER OF SEQ ID NOS: 361
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 13
LENGTH: 158
TYPE: PRT
ORGANISM: human papilloma virus (HPV)
US-11-021-949-13

Query Match 100.0%; Score 53; DB 6; Length 158;
Best Local Similarity 100.0%; Pred. No. 1.1;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 YAVCDKCLK 9
Db 67 YAVCDKCLK 75

RESULT 10
US-10-472-724-2
Sequence 2, Application US/10472724
Publication No. US20040171806A1
GENERAL INFORMATION:
APPLICANT: Cid-Airegui, Angel
APPLICANT: Zur Hausen, Harald
TITLE OF INVENTION: Modified HPV E6 and E7 genes and proteins useful for vaccination
FILE REFERENCE: 4121-154
CURRENT APPLICATION NUMBER: US/10/472,724
CURRENT FILING DATE: 2003-09-17
PRIOR APPLICATION NUMBER: PCT/EP02/03271
PRIOR FILING DATE: 2002-03-22
PRIOR APPLICATION NUMBER: EP 01107271.7
PRIOR FILING DATE: 2001-03-23
NUMBER OF SEQ ID NOS: 27
SOFTWARE: Patentin version 3.2
SEQ ID NO 2
LENGTH: 171
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic Construct
US-10-472-724-2

Query Match 100.0%; Score 53; DB 4; Length 171;
Best Local Similarity 100.0%; Pred. No. 1.2;

Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 YAVCDKCLK 9
Db 72 YAVCDKCLK 80

RESULT 11
US-11-072-288-1
Sequence 1, Application US/11072288
Publication No. US20050159386A1
GENERAL INFORMATION:
APPLICANT: KIENY, Marie-Paule
APPLICANT: BALLOUT, Jean-Marc
APPLICANT: BIZOUARNE, Nadine
TITLE OF INVENTION: ANTITUMORAL COMPOSITION BASED ON IMMUNOGENIC
POLYPEPTIDE WITH MODIFIED CELL LOCATION
FILE REFERENCE: 01753-122
CURRENT APPLICATION NUMBER: US/11/072,288
CURRENT FILING DATE: 2005-03-07
PRIOR APPLICATION NUMBER: US/09/462,993
PRIOR FILING DATE: 2000-04-17
PRIOR APPLICATION NUMBER: PCT/FR98/01576
PRIOR FILING DATE: 1998-07-17
PRIOR APPLICATION NUMBER: FR 97/09152
NUMBER OF SEQ ID NOS: 23
SOFTWARE: Patentin Ver. 2.2
SEQ ID NO 1
LENGTH: 243
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Derived from
OTHER INFORMATION: human papillomavirus, strain HPV-16, E6 protein
OTHER INFORMATION: fused F protein signals, clone E6*TMF.
US-11-072-288-1

Query Match 100.0%; Score 53; DB 6; Length 243;
Best Local Similarity 100.0%; Pred. No. 1.7;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 YAVCDKCLK 9
Db 95 YAVCDKCLK 103

RESULT 12
US-09-367-309A-1
Sequence 1, Application US/09367309A
Publication No. US20020081329A1
GENERAL INFORMATION:
APPLICANT: MACFARLAN, RODERICK I.
APPLICANT: MALLIAROS, JIM
TITLE OF INVENTION: CHELATING IMMUNOSTIMULATING COMPLEXES
FILE REFERENCE: 017227/0149
CURRENT APPLICATION NUMBER: US/09/367,309A
CURRENT FILING DATE: 1999-08-11
PRIOR APPLICATION NUMBER: PCT/AU98/00080
PRIOR FILING DATE: 1998-02-13
PRIOR APPLICATION NUMBER: AU PO 5178
PRIOR FILING DATE: 1997-02-19
NUMBER OF SEQ ID NOS: 6
SOFTWARE: Patentin Ver. 2.1
SEQ ID NO 1
LENGTH: 266
TYPE: PRT
ORGANISM: Human papillomavirus type 16
US-09-367-309A-1

Query Match 100.0%; Score 53; DB 3; Length 266;
Best Local Similarity 100.0%; Pred. No. 1.8;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 YAVCDKCLK 9
|||
Db 67 YAVCDKCLK 75

RESULT 13
US-10-000-903-4
; Sequence 4, Application US/10000903
; Publication No. US20020182221A1
; GENERAL INFORMATION:
; APPLICANT: Bruck, Claudine
; APPLICANT: Cabezon Silva, Teresa
; APPLICANT: Delisse, Anne-Marie Eva Bernande
; APPLICANT: Gerard, Catherine Marie Ghislaine
; APPLICANT: Lombardo-Bencheikh, Angela
; TITLE OF INVENTION: Vaccine
; FILE REFERENCE: B45107
; CURRENT APPLICATION NUMBER: US/10/000, 903
; CURRENT FILING DATE: 2001-10-01
; PRIOR APPLICATION NUMBER: PCT/EP98/05285
; PRIOR FILING DATE: 1998-08-17
; PRIOR APPLICATION NUMBER: GB 9717953.5
; PRIOR FILING DATE: 1997-08-22
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 4
; LENGTH: 273
; TYPE: PRT
; ORGANISM: Homo sapien
US-10-000-903-4

Query Match 100.0%; Score 53; DB 4; Length 273;
Best Local Similarity 100.0%; Pred. No. 1.8;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 YAVCDKCLK 9
|||
Db 173 YAVCDKCLK 181

RESULT 14
US-10-899-771-4
; Sequence 4, Application US/10899771
; Publication No. US20050031638A1
; GENERAL INFORMATION:
; APPLICANT: Dalemans, Wilfried L.J.
; APPLICANT: Gerard, Catherine Marie Ghislaine
; TITLE OF INVENTION: Compositions Comprising Human Papilloma Virus Proteins
; FILE REFERENCE: B45124
; CURRENT APPLICATION NUMBER: US/10/899, 771
; CURRENT FILING DATE: 2004-07-27
; PRIOR APPLICATION NUMBER: US/09/581, 976
; PRIOR FILING DATE: 2000-06-20
; PRIOR APPLICATION NUMBER: PCT/EP98/08563
; PRIOR FILING DATE: 1998-12-18
; PRIOR APPLICATION NUMBER: GB 9727262.9
; PRIOR FILING DATE: 1997-12-24
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 4
; LENGTH: 273
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Chimeric protein (protein D from Haemophilus
; OTHER INFORMATION: influenzae B and B6 from Human papilloma virus type
; OTHER INFORMATION: 16)
US-10-899-771-4

Query Match 100.0%; Score 53; DB 5; Length 273;
Best Local Similarity 100.0%; Pred. No. 1.8;

Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 YAVCDKCLK 9
|||
Db 173 YAVCDKCLK 181

RESULT 15
US-10-000-903-10
; Sequence 10, Application US/10000903
; Publication No. US20020182221A1
; GENERAL INFORMATION:
; APPLICANT: Bruck, Claudine
; APPLICANT: Cabezon Silva, Teresa
; APPLICANT: Delisse, Anne-Marie Eva Bernande
; APPLICANT: Gerard, Catherine Marie Ghislaine
; APPLICANT: Lombardo-Bencheikh, Angela
; TITLE OF INVENTION: Vaccine
; FILE REFERENCE: B45107
; CURRENT APPLICATION NUMBER: US/10/000, 903
; CURRENT FILING DATE: 2001-10-01
; PRIOR APPLICATION NUMBER: PCT/EP98/05285
; PRIOR FILING DATE: 1998-08-17
; PRIOR APPLICATION NUMBER: GB 9717953.5
; PRIOR FILING DATE: 1997-08-22
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 10
; LENGTH: 292
; TYPE: PRT
; ORGANISM: Homo sapien
US-10-000-903-10

Query Match 100.0%; Score 53; DB 4; Length 292;
Best Local Similarity 100.0%; Pred. No. 1.9;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 YAVCDKCLK 9
|||
Db 192 YAVCDKCLK 200

RESULT 16
US-10-899-771-10
; Sequence 10, Application US/10899771
; Publication No. US20050031638A1
; GENERAL INFORMATION:
; APPLICANT: Dalemans, Wilfried L.J.
; APPLICANT: Gerard, Catherine Marie Ghislaine
; TITLE OF INVENTION: Compositions Comprising Human Papilloma Virus Proteins
; FILE REFERENCE: B45124
; CURRENT APPLICATION NUMBER: US/10/899, 771
; CURRENT FILING DATE: 2004-07-27
; PRIOR APPLICATION NUMBER: US/09/581, 976
; PRIOR FILING DATE: 2000-06-20
; PRIOR APPLICATION NUMBER: PCT/EP98/08563
; PRIOR FILING DATE: 1998-12-18
; PRIOR APPLICATION NUMBER: GB 9727262.9
; PRIOR FILING DATE: 1997-12-24
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 10
; LENGTH: 292
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Chimeric protein (Clyra from Streptococcus
; OTHER INFORMATION: pneumoniae and B6 from Human papilloma virus type
; OTHER INFORMATION: 16)
US-10-899-771-10

Query Match 100.0%; Score 53; DB 5; Length 292;
Best Local Similarity 100.0%; Pred. No. 1.8;

Best Local Similarity 100.0%; Pred. No. 1.9;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 YAVCDKCLK 9
|||
Db 192 YAVCDKCLK 200

RESULT 17

US-10-000-903-6
; Sequence 6, Application US/10000903
; Publication No. US2002018221A1
; GENERAL INFORMATION:
; APPLICANT: Bruck, Claudine
; APPLICANT: Cabezon Silva, Teresa
; APPLICANT: Delisse, Anne-Marie Eva Fernandez
; APPLICANT: Gerard, Catherine Marie Ghislaine
; APPLICANT: Lombardo-Bencheikh, Angela
; TITLE OF INVENTION: Vaccine
; FILE REFERENCE: B45107
; CURRENT APPLICATION NUMBER: US/10/000.903
; CURRENT FILING DATE: 2001-10-01
; PRIOR APPLICATION NUMBER: PCT/EP98/05285
; PRIOR FILING DATE: 1998-08-17
; PRIOR APPLICATION NUMBER: GB 9717953.5
; PRIOR FILING DATE: 1997-08-22
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 6
; LENGTH: 371
; TYPE: PRT
; ORGANISM: Homo sapien
US-10-000-903-6

Query Match 100.0%; Score 53; DB 4; Length 371;
Best Local Similarity 100.0%; Pred. No. 2.4;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 YAVCDKCLK 9
|||
Db 173 YAVCDKCLK 181

RESULT 18

US-10-899-771-6
; Sequence 6, Application US/10899771
; Publication No. US20050031638A1
; GENERAL INFORMATION:
; APPLICANT: Dalemans, Wilfried L.J.
; APPLICANT: Gerard, Catherine Marie Ghislaine
; TITLE OF INVENTION: Compositions Comprising Human Papilloma Virus Proteins
; TITLE OF INVENTION: and Fusion Proteins Adjuvanted with a CpG Oligonucleotide
; FILE REFERENCE: B45124
; CURRENT APPLICATION NUMBER: US/10/899.771
; CURRENT FILING DATE: 2004-07-27
; PRIOR APPLICATION NUMBER: US/09/581.976
; PRIOR FILING DATE: 2000-06-20
; PRIOR APPLICATION NUMBER: PCT/EP98/08563
; PRIOR FILING DATE: 1998-12-18
; PRIOR APPLICATION NUMBER: GB 9727262.9
; PRIOR FILING DATE: 1997-12-24
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 6
; LENGTH: 371
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Chimeric protein (protein D from Haemophilus
; OTHER INFORMATION: Influenzae B and B67 fusion from Human Papilloma
; OTHER INFORMATION: virus type 16)
US-10-899-771-6

Query Match 100.0%; Score 53; DB 5; Length 371;
Best Local Similarity 100.0%; Pred. No. 2.4;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 YAVCDKCLK 9
|||
Db 173 YAVCDKCLK 181

RESULT 19

US-10-000-903-14
; Sequence 14, Application US/10000903
; Publication No. US2002018221A1
; GENERAL INFORMATION:
; APPLICANT: Bruck, Claudine
; APPLICANT: Cabezon Silva, Teresa
; APPLICANT: Delisse, Anne-Marie Eva Fernandez
; APPLICANT: Gerard, Catherine Marie Ghislaine
; APPLICANT: Lombardo-Bencheikh, Angela
; TITLE OF INVENTION: Vaccine
; FILE REFERENCE: B45107
; CURRENT APPLICATION NUMBER: US/10/000.903
; CURRENT FILING DATE: 2001-10-01
; PRIOR APPLICATION NUMBER: PCT/EP98/05285
; PRIOR FILING DATE: 1998-08-17
; PRIOR APPLICATION NUMBER: GB 9717953.5
; PRIOR FILING DATE: 1997-08-22
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 14
; LENGTH: 390
; TYPE: PRT
; ORGANISM: Homo sapien
US-10-000-903-14

Query Match 100.0%; Score 53; DB 4; Length 390;
Best Local Similarity 100.0%; Pred. No. 2.5;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 YAVCDKCLK 9
|||
Db 192 YAVCDKCLK 200

RESULT 20

US-10-899-771-14
; Sequence 14, Application US/10899771
; Publication No. US20050031638A1
; GENERAL INFORMATION:
; APPLICANT: Dalemans, Wilfried L.J.
; APPLICANT: Gerard, Catherine Marie Ghislaine
; TITLE OF INVENTION: Compositions Comprising Human Papilloma Virus Proteins
; TITLE OF INVENTION: and Fusion Proteins Adjuvanted with a CpG Oligonucleotide
; FILE REFERENCE: B45124
; CURRENT APPLICATION NUMBER: US/10/899.771
; CURRENT FILING DATE: 2004-07-27
; PRIOR APPLICATION NUMBER: US/09/581.976
; PRIOR FILING DATE: 2000-06-20
; PRIOR APPLICATION NUMBER: PCT/EP98/08563
; PRIOR FILING DATE: 1998-12-18
; PRIOR APPLICATION NUMBER: GB 9727262.9
; PRIOR FILING DATE: 1997-12-24
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 14
; LENGTH: 390
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Chimeric protein (Clyta from Streptococcus
; OTHER INFORMATION: pneumoniae and B67 fusion from Human Papilloma
; OTHER INFORMATION: virus type 16)
US-10-899-771-14

Query Match 100.0%; Score 53; DB 5; Length 390;
Best Local Similarity 100.0%; Pred. No. 2.5;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 YAVCDKCL 9
Db 192 YAVCDKCL 200

RESULT 21
US-10-484-063-6
Sequence 6, Application US/10484063
Publication No. US20050048467A1
GENERAL INFORMATION:
APPLICANT: SASTRY, K. JAGANNADHA
APPLICANT: TORTOLERO-LUNA, GUILTERMO
APPLICANT: FOLLEN, MICHAEL
TITLE OF INVENTION: METHODS AND COMPOSITIONS RELATING TO HPV-ASSOCIATED
TITLE OF INVENTION: PRE-CANCEROUS AND CANCEROUS GROWTHS, INCLUDING CIN
FILE REFERENCE: UTSC:560US
CURRENT APPLICATION NUMBER: US/10/484,063
CURRENT FILING DATE: 2004-01-16/US02/23198
PRIOR APPLICATION NUMBER: PCT/US02/23198
PRIOR FILING DATE: 2002-07-19
PRIOR APPLICATION NUMBER: 60/306,809
PRIOR FILING DATE: 2001-07-20
NUMBER OF SEQ ID NOS: 27
SOFTWARE: Patentin Ver. 2.1
SEQ ID NO 6
LENGTH: 9
TYPE: PRT
ORGANISM: Human papillomavirus
US-10-484-063-6

Query Match 90.6%; Score 48; DB 5; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.7e+06;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 YAVCDKCL 8
Db 2 YAVCDKCL 9

RESULT 22
US-08-344-824-237
Sequence 237, Application US/08344824
Publication No. US20030152580A1
GENERAL INFORMATION:
APPLICANT: SETTE, Alessandro
APPLICANT: SIDNEY, John
TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
NUMBER OF SEQUENCES: 399
CORRESPONDENCE ADDRESS:
ADDRESSEE: Townsend and Townsend Kourlie and Crew
STREET: One Market Plaza, Stewart Street Tower, 20th
FLOOR
CITY: San Francisco
STATE: California
COUNTRY: USA
ZIP: 94105
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/344,824
FILING DATE: 23-NOV-1994
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/278,634
FILING DATE: 21-JUL-1994

ATTORNEY/AGENT INFORMATION:
NAME: Bastian, Kevin L.
REGISTRATION NUMBER: 34,774
REFERENCE/DOCKET NUMBER: 14137-80-1
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 543-9600
TELEFAX: (415) 543-5043
INFORMATION FOR SEQ ID NO: 237:
SEQUENCE CHARACTERISTICS:
LENGTH: 10 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
US-08-344-824-237

Query Match 90.6%; Score 48; DB 2; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.6;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 YAVCDKCL 8
Db 3 YAVCDKCL 10

RESULT 23
US-08-344-824-346
Sequence 346, Application US/08344824
Publication No. US20030152580A1
GENERAL INFORMATION:
APPLICANT: SETTE, Alessandro
APPLICANT: SIDNEY, John
TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
NUMBER OF SEQUENCES: 399
CORRESPONDENCE ADDRESS:
ADDRESSEE: Townsend and Townsend Kourlie and Crew
STREET: One Market Plaza, Stewart Street Tower, 20th
FLOOR
CITY: San Francisco
STATE: California
COUNTRY: USA
ZIP: 94105
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/344,824
FILING DATE: 23-NOV-1994
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/278,634
FILING DATE: 21-JUL-1994
ATTORNEY/AGENT INFORMATION:
NAME: Bastian, Kevin L.
REGISTRATION NUMBER: 34,774
REFERENCE/DOCKET NUMBER: 14137-80-1
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 543-9600
TELEFAX: (415) 543-5043
INFORMATION FOR SEQ ID NO: 346:
SEQUENCE CHARACTERISTICS:
LENGTH: 9 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
US-08-344-824-346

Query Match 83.0%; Score 44; DB 2; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.7e+06;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 YAVCDKC 7
Db 3 YAVCDKC 9

RESULT 24
US-10-424-599-205655

; Sequence 205655, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa Thomas J
; APPLICANT: Kovalic David K
; APPLICANT: Zhou Yihua
; APPLICANT: Cao Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated with
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 205655
; LENGTH: 292
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_27734C.1.pep
US-10-424-599-205655

Query Match 81.1%; Score 43; DB 4; Length 292;
Best Local Similarity 87.5%; Pred. No. 68;
Matches 7; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 YAVCDKCL 8
Db 91 YAVCDKCL 98

RESULT 25
US-10-425-114-53267

; Sequence 53267, Application US/10425114
; Publication No. US20040034888A1
; GENERAL INFORMATION:
; APPLICANT: Liu, Jingdong
; APPLICANT: Zhou, Yihua
; APPLICANT: Kovalic, David K.
; APPLICANT: Screen, Steven E.
; APPLICANT: Tabaska, Jack E.
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated with
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(5313)B
; CURRENT APPLICATION NUMBER: US/10/425,114
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 73128
; SEQ ID NO 53267
; LENGTH: 241
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; OTHER INFORMATION: Clone ID: 700837183_FLI.pep
US-10-425-114-53267

Query Match 79.2%; Score 42; DB 4; Length 241;
Best Local Similarity 87.5%; Pred. No. 82;
Matches 7; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 2 AYVCDKCL 9
Db 193 AYVCDKCL 200

RESULT 26

US-10-424-599-197309
; Sequence 197309, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa Thomas J
; APPLICANT: Kovalic David K
; APPLICANT: Zhou Yihua
; APPLICANT: Cao Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated with
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 197309
; LENGTH: 256
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_20197C.1.pep
US-10-424-599-197309

Query Match 79.2%; Score 42; DB 4; Length 256;
Best Local Similarity 87.5%; Pred. No. 86;
Matches 7; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 2 AYVCDKCL 9
Db 208 AYVCDKCL 215

RESULT 27
US-11-021-949-361

; Sequence 361, Application US/11021949
; Publication No. US20050142541A1
; GENERAL INFORMATION:
; APPLICANT: LU, PETER
; APPLICANT: GARMAN, JONATHAN DAVID
; APPLICANT: BELMARES, MICHAEL P.
; APPLICANT: DIAZ-SARIENTO, CHAMORRO SOMOZA
; APPLICANT: SCHWEIZER, JOHANNES
; TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
; TITLE OF INVENTION: AND METHODS OF THEIR USE
; FILE REFERENCE: VITA-012
; CURRENT APPLICATION NUMBER: US/11/021,949
; CURRENT FILING DATE: 2004-12-23
; PRIOR APPLICATION NUMBER: 60/532,373
; PRIOR FILING DATE: 2003-12-23
; NUMBER OF SEQ ID NOS: 361
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 361
; LENGTH: 158
; TYPE: PRT
; ORGANISM: human papilloma virus (HPV)
US-11-021-949-361

Query Match 77.4%; Score 41; DB 6; Length 158;
Best Local Similarity 66.7%; Pred. No. 81;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 YAVCDKCL 9
Db 62 YAVCDKCL 70

RESULT 28
US-11-021-949-14
; Sequence 14, Application US/11021949
; Publication No. US20050142541A1
; GENERAL INFORMATION:
; APPLICANT: LU, PETER
; APPLICANT: GARMAN, JONATHAN DAVID
; APPLICANT: BELMARES, MICHAEL P.


```

; APPLICANT: DIAZ-SARMIENTO, CHAMORRO SOMOZA
; APPLICANT: SCHWEIZER, JOHANNES
; TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
; TITLE OF INVENTION: AND METHODS OF THEIR USE
; FILE REFERENCE: VITA-012
; CURRENT APPLICATION NUMBER: US/11/021,949
; CURRENT FILING DATE: 2004-12-23
; PRIOR APPLICATION NUMBER: 60/532,373
; PRIOR FILING DATE: 2003-12-23
; NUMBER OF SEQ ID NOS: 361
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 14
; LENGTH: 149
; TYPE: PRT
; ORGANISM: human papilloma virus (HPV)
; US-11-021-949-14

Query Match
Best Local Similarity 75.5%; Score 40; DB 6; Length 149;
Best Local Similarity 77.8%; Pred. No. 1.1e+02;
Matches 7; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 YAVCDKCLK 9
Db 60 YGVCCKCLK 68

RESULT 29
US-10-424-599-199555
; Sequence 199555, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa Thomas J
; APPLICANT: Kovalic David K
; APPLICANT: Zhou Yihua
; APPLICANT: Cao Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 199555
; LENGTH: 152
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1) ..(152)
; OTHER INFORMATION: unsure at all Xaa locations
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_22222C.1.pep
; US-10-424-599-199555

Query Match
Best Local Similarity 73.6%; Score 39; DB 4; Length 152;
Best Local Similarity 85.7%; Pred. No. 1.6e+02;
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 3 VCDKCLK 9
Db 64 LCDKCLK 70

RESULT 30
US-10-721-793-222
; Sequence 222, Application US/10721793
; Publication No. US2005006531A1
; GENERAL INFORMATION:
; APPLICANT: Corona Villagas, Miguel
; APPLICANT: Garcia Rodriguez, Ma Consuelo
; APPLICANT: Valdez Cruz, Norma Adriana
; APPLICANT: Gurrola Briones, Georgina
; APPLICANT: Becerril Lujan, Baltazar
; APPLICANT: Possani Postay, Lourival Domingos
```

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; TITLE OF INVENTION: Recombinant Immunogens for the Generation of Antivenoms to the
; TITLE OF INVENTION: Venom of Scorpions of the Genus Centruroides
; FILE REFERENCE: 2099.0070001
; CURRENT APPLICATION NUMBER: US/10/721,793
; CURRENT FILING DATE: 2003-11-26
; PRIOR APPLICATION NUMBER: US 60/430,067
; PRIOR FILING DATE: 2002-12-02
; NUMBER OF SEQ ID NOS: 294
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 222
; LENGTH: 43
; TYPE: PRT
; ORGANISM: Centruroides limpidus limpidus
; US-10-721-793-222

Query Match
Best Local Similarity 71.7%; Score 38; DB 5; Length 43;
Best Local Similarity 66.7%; Pred. No. 75;
Matches 6; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 YAVCDKCLK 9
Db 17 YGQCDKCKC 25

RESULT 31
US-10-721-793-224
; Sequence 224, Application US/10721793
; Publication No. US2005006531A1
; GENERAL INFORMATION:
; APPLICANT: Corona Villagas, Miguel
; APPLICANT: Garcia Rodriguez, Ma Consuelo
; APPLICANT: Valdez Cruz, Norma Adriana
; APPLICANT: Gurrola Briones, Georgina
; APPLICANT: Becerril Lujan, Baltazar
; APPLICANT: Possani Postay, Lourival Domingos
; TITLE OF INVENTION: Recombinant Immunogens for the Generation of Antivenoms to the
; TITLE OF INVENTION: Venom of Scorpions of the Genus Centruroides
; FILE REFERENCE: 2099.0070001
; CURRENT APPLICATION NUMBER: US/10/721,793
; CURRENT FILING DATE: 2003-11-26
; PRIOR APPLICATION NUMBER: US 60/430,067
; PRIOR FILING DATE: 2002-12-02
; NUMBER OF SEQ ID NOS: 294
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 224
; LENGTH: 43
; TYPE: PRT
; ORGANISM: Centruroides limpidus limpidus
; US-10-721-793-224

Query Match
Best Local Similarity 71.7%; Score 38; DB 5; Length 43;
Best Local Similarity 66.7%; Pred. No. 75;
Matches 6; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 YAVCDKCLK 9
Db 17 YGQCDKCKC 25

RESULT 32
US-10-450-763-42145
; Sequence 42145, Application US/10450763
; Publication No. US20050196754A1
; GENERAL INFORMATION:
; APPLICANT: Hyseq, Inc
; TITLE OF INVENTION: NOVEL NUCLEIC ACIDS AND POLYPEPTIDES
; FILE REFERENCE: 790CIP3/US
; CURRENT APPLICATION NUMBER: US/10/450,763
; CURRENT FILING DATE: 2003-06-11
; PRIOR APPLICATION NUMBER: PCT/US01/08631
; PRIOR FILING DATE: 2001-03-30
; PRIOR APPLICATION NUMBER: 09/540,217
; PRIOR FILING DATE: 2000-03-31
```

PRIOR APPLICATION NUMBER: 09/649,167
PRIOR FILING DATE: 2000-08-23
NUMBER OF SEQ ID NOS: 60736
SOFTWARE: Custom
SEQ ID NO 42145
LENGTH: 198
TYPE: PRT
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: DOMAIN
LOCATION: (99)..(119)
OTHER INFORMATION: NEUROHYPOPHYSIAL HORMONE SIGNATURE domain identified by
OTHER INFORMATION: EMATRIX, accession number PR00831D, p-value=6.595e-09, raw score
FEATURE:
NAME/KEY: misc_feature
LOCATION: (1)..(198)
OTHER INFORMATION: Xaa = X or * as defined in Table 2
US-10-450-763-42145

Query Match 71.7%; Score 38; DB 5; Length 198;
Best Local Similarity 75.0%; Pred. No. 2.9e+02;
Matches 6; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 2 YAVCDKCLK 9
DB 72 YACECECLK 79

RESULT 33
US-11-097-143-6276
Sequence 6276, Application US/11097143
Publication No. US20050208558A1
GENERAL INFORMATION:
APPLICANT: Venter, J. Craig
APPLICANT: et al.
TITLE OF INVENTION: DETECTION KIT, SUCH AS NUCLEIC ACID
TITLE OF INVENTION: ARRAYS, FOR DETECTING EXPRESSION OF 10,000 OR MORE
TITLE OF INVENTION: DROSOPHILA GENES.
FILE REFERENCE: CU000728
CURRENT APPLICATION NUMBER: US/11/097,143
CURRENT FILING DATE: 2005-04-04
PRIOR APPLICATION NUMBER: 60/157,832
PRIOR FILING DATE: 1999-10-05
PRIOR APPLICATION NUMBER: 60/160,191
PRIOR FILING DATE: 1999-10-19
PRIOR APPLICATION NUMBER: 60/161,932
PRIOR FILING DATE: 1999-10-28
PRIOR APPLICATION NUMBER: 60/164,769
PRIOR FILING DATE: 1999-11-12
PRIOR APPLICATION NUMBER: 60/173,383
PRIOR FILING DATE: 1999-12-28
PRIOR APPLICATION NUMBER: 60/175,693
PRIOR FILING DATE: 2000-01-12
PRIOR APPLICATION NUMBER: 60/184,831
PRIOR FILING DATE: 2000-02-24
PRIOR APPLICATION NUMBER: 60/191,637
PRIOR FILING DATE: 2000-03-23
NUMBER OF SEQ ID NOS: 43008
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 6276
LENGTH: 384
TYPE: PRT
ORGANISM: DROSOPHILA
US-11-097-143-6276

Query Match 71.7%; Score 38; DB 6; Length 384;
Best Local Similarity 55.6%; Pred. No. 5.1e+02;
Matches 5; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 1 YAVCDKCLK 9
DB 44 YACDCHCMR 52

RESULT 34
US-10-369-493-5438
Sequence 5438, Application US/10369493
Publication No. US20030233675A1
GENERAL INFORMATION:
APPLICANT: Cao, Yongwei
APPLICANT: Hinkle, Gregory J.
APPLICANT: Slater, Steven C.
APPLICANT: Goldman, Barry S.
APPLICANT: Chen, Xianfeng
TITLE OF INVENTION: EXPRESSION OF MICROBIAL PROTEINS IN PLANTS FOR PRODUCTION OF
TITLE OF INVENTION: PLANTS WITH IMPROVED PROPERTIES
FILE REFERENCE: 38-10(52052)B
CURRENT APPLICATION NUMBER: US/10/369,493
CURRENT FILING DATE: 2003-02-28
PRIOR APPLICATION NUMBER: US 60/360,039
PRIOR FILING DATE: 2002-02-21
NUMBER OF SEQ ID NOS: 47374
SEQ ID NO 5438
LENGTH: 688
TYPE: PRT
ORGANISM: Caenorhabditis elegans
US-10-369-493-5438

Query Match 71.7%; Score 38; DB 4; Length 688;
Best Local Similarity 66.7%; Pred. No. 8.5e+02;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 YAVCDKCLK 9
DB 529 YACEKCLK 537

RESULT 35
US-10-424-599-265840
Sequence 265840, Application US/10424599
Publication No. US20040031072A1
GENERAL INFORMATION:
APPLICANT: La Rosa Thomas J
APPLICANT: Kovalic David K
APPLICANT: Zhou Yihua
APPLICANT: Cao Yongwei
TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated with
TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
FILE REFERENCE: 38-21(53223)B
CURRENT APPLICATION NUMBER: US/10/424,599
CURRENT FILING DATE: 2003-04-28
NUMBER OF SEQ ID NOS: 285684
SEQ ID NO 265840
LENGTH: 781
TYPE: PRT
ORGANISM: Glycine max
FEATURE:
NAME/KEY: unsure
LOCATION: (1)..(781)
OTHER INFORMATION: unsure at all Xaa locations
FEATURE:
OTHER INFORMATION: Clone ID: PAT_MRT3847_82073C.1.pep
US-10-424-599-265840

Query Match 71.7%; Score 38; DB 4; Length 781;
Best Local Similarity 75.0%; Pred. No. 9.5e+02;
Matches 6; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 YAVCDKCLK 8
DB 384 YRVCNCLK 391

RESULT 36
US-11-021-949-19

```
; Sequence 19, Application US/11021949
; Publication No. US20050142541A1
; GENERAL INFORMATION:
; APPLICANT: LU, PETER
; APPLICANT: GARMAN, JONATHAN DAVID
; APPLICANT: BELMARES, MICHAEL P.
; APPLICANT: DIAZ-SARMIENTO, CHAMORRO SOMOZA
; APPLICANT: SCHWEIZER, JOHANNES
; TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
; TITLE OF INVENTION: AND METHODS OF THEIR USE
; FILE REFERENCE: VITA-012
; CURRENT APPLICATION NUMBER: US/11/021,949
; PRIOR FILING DATE: 2004-12-23
; PRIOR FILING DATE: 2003-12-23
; NUMBER OF SEQ ID NOS: 361
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 19
; LENGTH: 148
; TYPE: PRT
; ORGANISM: human papilloma virus (HPV)
US-11-021-949-19
```

```
Query Match 69.8%; Score 37; DB 6; Length 148;
Best Local Similarity 66.7%; Pred. No. 3.2e+02;
Matches 6; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
```

```
Qy 1 YAVCDKCL 9
Db 61 YGVCPCL 69
```

```
RESULT 37
US-11-021-949-24
; Sequence 24, Application US/11021949
; Publication No. US20050142541A1
; GENERAL INFORMATION:
; APPLICANT: LU, PETER
; APPLICANT: GARMAN, JONATHAN DAVID
; APPLICANT: BELMARES, MICHAEL P.
; APPLICANT: DIAZ-SARMIENTO, CHAMORRO SOMOZA
; APPLICANT: SCHWEIZER, JOHANNES
; TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
; TITLE OF INVENTION: AND METHODS OF THEIR USE
; FILE REFERENCE: VITA-012
; CURRENT APPLICATION NUMBER: US/11/021,949
; CURRENT FILING DATE: 2004-12-23
; PRIOR APPLICATION NUMBER: 60/532,373
; PRIOR FILING DATE: 2003-12-23
; NUMBER OF SEQ ID NOS: 361
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 24
; LENGTH: 151
; TYPE: PRT
; ORGANISM: human papilloma virus (HPV)
US-11-021-949-24
```

```
Query Match 69.8%; Score 37; DB 6; Length 151;
Best Local Similarity 75.0%; Pred. No. 3.2e+02;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
```

```
Qy 1 YAVCDKCL 8
Db 60 YAVCKCL 67
```

```
RESULT 38
US-11-021-949-25
; Sequence 25, Application US/11021949
; Publication No. US20050142541A1
; GENERAL INFORMATION:
; APPLICANT: LU, PETER
; APPLICANT: GARMAN, JONATHAN DAVID
```

```
; APPLICANT: BELMARES, MICHAEL P.
; APPLICANT: DIAZ-SARMIENTO, CHAMORRO SOMOZA
; APPLICANT: SCHWEIZER, JOHANNES
; TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
; TITLE OF INVENTION: AND METHODS OF THEIR USE
; FILE REFERENCE: VITA-012
; CURRENT APPLICATION NUMBER: US/11/021,949
; CURRENT FILING DATE: 2004-12-23
; PRIOR APPLICATION NUMBER: 60/532,373
; PRIOR FILING DATE: 2003-12-23
; NUMBER OF SEQ ID NOS: 361
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 25
; LENGTH: 151
; TYPE: PRT
; ORGANISM: human papilloma virus (HPV)
US-11-021-949-25
```

```
Query Match 69.8%; Score 37; DB 6; Length 151;
Best Local Similarity 75.0%; Pred. No. 3.2e+02;
Matches 6; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
```

```
Qy 1 YAVCDKCL 8
Db 60 YAVCKCL 67
```

```
RESULT 39
US-10-437-963-157042
; Sequence 157042, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; APPLICANT: Wu, Wei
; APPLICANT: Boukharov, Andrey A.
; APPLICANT: Barbazuk, Brad
; APPLICANT: Li, Ping
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53221)B
; CURRENT APPLICATION NUMBER: US/10/437,963
; CURRENT FILING DATE: 2003-05-14
; NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 157042
; LENGTH: 330
; TYPE: PRT
; ORGANISM: Oryza sativa
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)..(330)
; OTHER INFORMATION: unsure at all Xaa locations
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT4530_56651C.1.dep
US-10-437-963-157042
```

```
Query Match 69.8%; Score 37; DB 4; Length 330;
Best Local Similarity 77.8%; Pred. No. 6.4e+02;
Matches 7; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
```

```
Qy 1 YAVCDKCL 9
Db 253 YDVTDKCL 261
```

```
RESULT 40
US-10-437-963-128565
; Sequence 128565, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
```

```
/ APPLICANT: Kovacic, David K.
/ APPLICANT: Zhou, Yinhua
/ APPLICANT: Cao, Yongwei
/ APPLICANT: Wu, Wei
/ APPLICANT: Boukharov, Andrey A.
/ APPLICANT: Barbazuk, Brad
/ APPLICANT: Li, Ping
/ TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
/ FILE REFERENCE: 38-21(53221)B
/ CURRENT APPLICATION NUMBER: US/10/437,963
/ CURRENT FILING DATE: 2003-05-14
/ NUMBER OF SEQ ID NOS: 204966
/ SEQ ID NO 128565
/ LENGTH: 1696
/ TYPE: PRT
/ ORGANISM: Oryza sativa
/ FEATURE:
/ OTHER INFORMATION: Clone ID: PAT_MRT4530_30908C.1.pcp
US-10-437-963-128565

Query Match          69.8%; Score 37; DB 4; Length 1696;
Best Local Similarity 75.0%; Pred. No. 2.7e+03;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 YAVCDKCL 8
DB 1174 YVVCNCKL 1181

RESULT 41
US-10-732-923-18427
/ Sequence 18427, Application US/10732923
/ Publication No. US20050108791A1
/ GENERAL INFORMATION:
/ APPLICANT: Edgerton, Michael D
/ TITLE OF INVENTION: TRANSGENIC PLANTS WITH IMPROVED PHENOTYPES
/ FILE REFERENCE: 38-15(52796)C
/ CURRENT APPLICATION NUMBER: US/10/732,923
/ CURRENT FILING DATE: 2003-12-10
/ PRIOR APPLICATION NUMBER: 10/310,154
/ PRIOR FILING DATE: 2002-12-04
/ NUMBER OF SEQ ID NOS: 24149
/ SEQ ID NO 18427
/ LENGTH: 2429
/ TYPE: PRT
/ ORGANISM: Mus musculus
US-10-732-923-18427

Query Match          69.8%; Score 37; DB 5; Length 2429;
Best Local Similarity 85.7%; Pred. No. 3.6e+03;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 3 VCDKCLK 9
DB 1302 VCDNCKL 1308

RESULT 42
US-10-732-923-18452
/ Sequence 18452, Application US/10732923
/ Publication No. US20050108791A1
/ GENERAL INFORMATION:
/ APPLICANT: Edgerton, Michael D
/ TITLE OF INVENTION: TRANSGENIC PLANTS WITH IMPROVED PHENOTYPES
/ FILE REFERENCE: 38-15(52796)C
/ CURRENT APPLICATION NUMBER: US/10/732,923
/ CURRENT FILING DATE: 2003-12-10
/ PRIOR APPLICATION NUMBER: 10/310,154
/ PRIOR FILING DATE: 2002-12-04
/ NUMBER OF SEQ ID NOS: 24149
/ SEQ ID NO 18452
/ LENGTH: 2440
```

```
/ TYPE: PRT
/ ORGANISM: Homo sapiens
US-10-732-923-18452

Query Match          69.8%; Score 37; DB 5; Length 2440;
Best Local Similarity 85.7%; Pred. No. 3.7e+03;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 3 VCDKCLK 9
DB 1307 VCDNCKL 1313

RESULT 43
US-10-109-886-8
/ Sequence 8, Application US/10109886
/ Publication No. US20020119499A1
/ GENERAL INFORMATION:
/ APPLICANT: TANABE SEIYAKU CO. LTD.
/ APPLICANT: TANIGUCHI, Tomoyasu
/ APPLICANT: MIZUKAMI, Junko
/ TITLE OF INVENTION: METHOD FOR IDENTIFYING OR SCREENING AGONIST AND
/ FILE REFERENCE: TANIGUCHI-6
/ CURRENT APPLICATION NUMBER: US/10/109,886
/ CURRENT FILING DATE: 2002-04-01
/ PRIOR APPLICATION NUMBER: 09/514,247
/ PRIOR FILING DATE: 2000-02-28
/ PRIOR APPLICATION NUMBER: PCT/JP98/03734
/ PRIOR FILING DATE: 1998-08-24
/ PRIOR APPLICATION NUMBER: JP231084/1997
/ PRIOR FILING DATE: 1997-08-27
/ NUMBER OF SEQ ID NOS: 10
/ SOFTWARE: PatentIn version 3.0
/ SEQ ID NO 8
/ LENGTH: 2441
/ TYPE: PRT
/ ORGANISM: mouse
US-10-109-886-8

Query Match          69.8%; Score 37; DB 4; Length 2441;
Best Local Similarity 85.7%; Pred. No. 3.7e+03;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 3 VCDKCLK 9
DB 1308 VCDNCKL 1314

RESULT 44
US-10-628-957-2
/ Sequence 2, Application US/10628957
/ Publication No. US20040185463A1
/ GENERAL INFORMATION:
/ APPLICANT: Montminy, Marc R.
/ TITLE OF INVENTION: Methods for Treating Diabetes Mellitus
/ FILE REFERENCE: SALKI650-1
/ CURRENT APPLICATION NUMBER: US/10/628,957
/ CURRENT FILING DATE: 2003-07-28
/ PRIOR APPLICATION NUMBER: US/09/686,316
/ PRIOR FILING DATE: 2000-10-10
/ PRIOR APPLICATION NUMBER: US/08/961,739
/ PRIOR FILING DATE: 1997-10-31
/ PRIOR APPLICATION NUMBER: US 194,468
/ PRIOR FILING DATE: 1994-02-10
/ NUMBER OF SEQ ID NOS: 4
/ SOFTWARE: FastSeq for Windows Version 4.0
/ SEQ ID NO 2
/ LENGTH: 2441
/ TYPE: PRT
/ ORGANISM: Mus
/ FEATURE:
/ NAME/KEY: VARIANT
```

LOCATION: (1)...(2441)
OTHER INFORMATION: Xaa = Any Amino Acid
US-10-628-957-2

Query Match 69.8%; Score 37; DB 4; Length 2441;
Best Local Similarity 85.7%; Pred. No. 3.7e+03;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 3 VCDKCLK 9
DB 1308 VCDNCLK 1314

RESULT 45
US-10-473-127-643
Sequence 643, Application US/10473127
Publication No. US20040236091A1
GENERAL INFORMATION:
APPLICANT: ZYCOB INC.
TITLE OF INVENTION: TRANSLATIONAL PROFILING
FILE REFERENCE: 08191-026W01
CURRENT APPLICATION NUMBER: US/0/473,127
CURRENT FILING DATE: 2003-09-26
PRIOR APPLICATION NUMBER: 60/279,495
PRIOR FILING DATE: 2001-03-28
PRIOR APPLICATION NUMBER: 60/292,544
PRIOR FILING DATE: 2001-05-21
PRIOR APPLICATION NUMBER: 60/310,801
PRIOR FILING DATE: 2001-08-08
PRIOR APPLICATION NUMBER: 60/326,370
PRIOR FILING DATE: 2001-10-01
PRIOR APPLICATION NUMBER: 60/336,780
PRIOR FILING DATE: 2001-12-04
PRIOR APPLICATION NUMBER: 60/358,985
PRIOR FILING DATE: 2002-02-20
NUMBER OF SEQ ID NOS: 2041
SOFTWARE: FASTSEQ for Windows Version 4.0
SEQ ID NO 643
LENGTH: 2441
TYPE: PRT
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: VARIANT
LOCATION: (1)...(2441)
OTHER INFORMATION: Xaa = Any Amino Acid
US-10-473-127-643

Query Match 69.8%; Score 37; DB 5; Length 2441;
Best Local Similarity 85.7%; Pred. No. 3.7e+03;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 3 VCDKCLK 9
DB 1308 VCDNCLK 1314

RESULT 46
US-10-732-923-18428
Sequence 18428, Application US/10732923
Publication No. US20050108791A1
GENERAL INFORMATION:
APPLICANT: Edgerton, Michael D
TITLE OF INVENTION: TRANSGENIC PLANTS WITH IMPROVED PHENOTYPES
FILE REFERENCE: 38-15(52796)C
CURRENT APPLICATION NUMBER: US/10/732,923
CURRENT FILING DATE: 2003-12-10
PRIOR APPLICATION NUMBER: 10/310,154
PRIOR FILING DATE: 2002-12-04
NUMBER OF SEQ ID NOS: 24149
SEQ ID NO 18428
LENGTH: 2441
TYPE: PRT
ORGANISM: Mus musculus

US-10-732-923-18428

Query Match 69.8%; Score 37; DB 5; Length 2441;
Best Local Similarity 85.7%; Pred. No. 3.7e+03;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 3 VCDKCLK 9
DB 1308 VCDNCLK 1314

RESULT 47
US-10-732-923-18429
Sequence 18429, Application US/10732923
Publication No. US20050108791A1
GENERAL INFORMATION:
APPLICANT: Edgerton, Michael D
TITLE OF INVENTION: TRANSGENIC PLANTS WITH IMPROVED PHENOTYPES
FILE REFERENCE: 38-15(52796)C
CURRENT APPLICATION NUMBER: US/10/732,923
CURRENT FILING DATE: 2003-12-10
PRIOR APPLICATION NUMBER: 10/310,154
PRIOR FILING DATE: 2002-12-04
NUMBER OF SEQ ID NOS: 24149
SEQ ID NO 18429
LENGTH: 2441
TYPE: PRT
ORGANISM: Mus musculus
US-10-732-923-18429

Query Match 69.8%; Score 37; DB 5; Length 2441;
Best Local Similarity 85.7%; Pred. No. 3.7e+03;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 3 VCDKCLK 9
DB 1308 VCDNCLK 1314

RESULT 48
US-10-109-886-10
Sequence 10, Application US/10109886
Publication No. US20020119499A1
GENERAL INFORMATION:
APPLICANT: TANABE SEIYAKU CO. LTD.
APPLICANT: TANIGUCHI, Tomoyasu
APPLICANT: MIZUKAMI, Junko
TITLE OF INVENTION: METHOD FOR IDENTIFYING OR SCREENING AGONIST AND
TITLE OF INVENTION: ANTAGONIST TO PPAR
FILE REFERENCE: TANIGUCHI=6
CURRENT APPLICATION NUMBER: US/10/109,886
CURRENT FILING DATE: 2002-04-01
PRIOR APPLICATION NUMBER: 09/514,247
PRIOR FILING DATE: 2000-02-28
PRIOR APPLICATION NUMBER: PCT/JP98/03734
PRIOR FILING DATE: 1998-08-24
PRIOR APPLICATION NUMBER: JP231084/1997
PRIOR FILING DATE: 1997-08-27
NUMBER OF SEQ ID NOS: 10
SOFTWARE: PatentIn version 3.0
SEQ ID NO 10
LENGTH: 2442
TYPE: PRT
ORGANISM: human
US-10-109-886-10

Query Match 69.8%; Score 37; DB 4; Length 2442;
Best Local Similarity 85.7%; Pred. No. 3.7e+03;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 3 VCDKCLK 9
DB 1307 VCDNCLK 1313

```
RESULT 49
US-10-473-127-631
; Sequence 631, Application US/10473127
; Publication No. US20040236091A1
; GENERAL INFORMATION:
; APPLICANT: Zycos Inc.
; TITLE OF INVENTION: TRANSLATIONAL PROFILING
; FILE REFERENCE: 08191-026W01
; CURRENT APPLICATION NUMBER: US/10/473,127
; CURRENT FILING DATE: 2003-09-26
; PRIOR APPLICATION NUMBER: 60/279,495
; PRIOR FILING DATE: 2001-03-28
; PRIOR APPLICATION NUMBER: 60/292,544
; PRIOR FILING DATE: 2001-05-21
; PRIOR APPLICATION NUMBER: 60/310,801
; PRIOR FILING DATE: 2001-08-08
; PRIOR APPLICATION NUMBER: 60/326,370
; PRIOR FILING DATE: 2001-10-01
; PRIOR APPLICATION NUMBER: 60/336,780
; PRIOR FILING DATE: 2001-12-04
; PRIOR APPLICATION NUMBER: 60/358,985
; PRIOR FILING DATE: 2002-02-20
; NUMBER OF SEQ ID NOS: 2041
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 631
; LENGTH: 2442
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-473-127-631

Query Match      69.8%; Score 37; DB 5; Length 2442;
Best Local Similarity 85.7%; Pred. No. 3.7e+03;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      3 VCDCKLK 9
Db      1307 VCDNCKL 1313

RESULT 50
US-10-473-127-633
; Sequence 633, Application US/10473127
; Publication No. US20040236091A1
; GENERAL INFORMATION:
; APPLICANT: Zycos Inc.
; TITLE OF INVENTION: TRANSLATIONAL PROFILING
; FILE REFERENCE: 08191-026W01
; CURRENT APPLICATION NUMBER: US/10/473,127
; CURRENT FILING DATE: 2003-09-26
; PRIOR APPLICATION NUMBER: 60/279,495
; PRIOR FILING DATE: 2001-03-28
; PRIOR APPLICATION NUMBER: 60/292,544
; PRIOR FILING DATE: 2001-05-21
; PRIOR APPLICATION NUMBER: 60/310,801
; PRIOR FILING DATE: 2001-08-08
; PRIOR APPLICATION NUMBER: 60/326,370
; PRIOR FILING DATE: 2001-10-01
; PRIOR APPLICATION NUMBER: 60/336,780
; PRIOR FILING DATE: 2001-12-04
; PRIOR APPLICATION NUMBER: 60/358,985
; PRIOR FILING DATE: 2002-02-20
; NUMBER OF SEQ ID NOS: 2041
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 633
; LENGTH: 2442
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-473-127-633

Query Match      69.8%; Score 37; DB 5; Length 2442;
Best Local Similarity 85.7%; Pred. No. 3.7e+03;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
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Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 3 VCDCKLK 9

Db 1307 VCDNCKL 1313

Search completed: May 5, 2006, 08:39:06
Job time : 60 Secs

Query Match 69.8%; Score 37; DB 5; Length 2442;
Best Local Similarity 85.7%; Pred. No. 3.7e+03;

GenCore version 5.1.7
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OM protein - protein search, using SW model

Run on: May 5, 2006, 08:29:56 ; Search time 8.4 Seconds
(without alignments)
49,591 Million cell updates/sec

Title: US-08-170-344-45
Perfect score: 53
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Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 235405 seqs, 46284737 residues

Total number of hits satisfying chosen parameters: 235405

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 1000 summaries

Database : Published Applications AA_New:*
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Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

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4	53	100.0	248	9	US-10-530-253-1
5	53	100.0	248	9	US-10-530-253-7
6	53	100.0	256	11	US-11-192-923A-2
7	50	94.3	9	9	US-10-530-061-604
8	49	92.5	9	9	US-10-530-061-603
9	46	86.8	10	9	US-10-530-061-502
10	44	83.0	9	9	US-10-530-061-801
11	42	79.2	10	9	US-10-530-061-501
12	41	77.4	248	9	US-10-530-253-3
13	41	77.4	248	9	US-10-530-253-5
14	41	77.4	248	9	US-10-530-253-9
15	41	77.4	248	9	US-10-530-253-11
16	41	77.4	354	9	US-10-506-454-517
17	40	75.5	149	9	US-10-530-253-18
18	38	71.7	591	9	US-10-506-454-901
19	37	69.8	151	9	US-10-530-253-21
20	37	69.8	2442	9	US-10-469-469-252
21	37	69.8	2442	11	US-11-154-293-4

22	67.9	286	11	US-11-264-096-2052	Sequence 2052, Ap
23	67.9	298	11	US-11-264-096-2051	Sequence 2051, Ap
24	66.0	11	9	US-10-530-061-785	Sequence 785, App
25	66.0	15	9	US-10-530-061-1656	Sequence 1656, Ap
26	66.0	158	9	US-10-530-253-20	Sequence 20, Appl
27	66.0	328	9	US-10-993-143-10	Sequence 10, Appl
28	66.0	559	11	US-10-096-568A-27572	Sequence 27572, A
29	66.0	2414	11	US-11-154-293-8	Sequence 8, Appl1
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53	62.3	270	11	US-11-072-512-3274	Sequence 3274, Ap
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56	62.3	389	11	US-11-108-528-68	Sequence 68, Appl
57	62.3	389	11	US-11-108-528-70	Sequence 70, Appl
58	62.3	390	11	US-11-087-099-10001	Sequence 10001, A
59	62.3	392	9	US-10-506-454-229	Sequence 229, App
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61	62.3	494	9	US-10-763-712A-111	Sequence 111, Appl
62	62.3	530	11	US-11-110-082-32	Sequence 32, Appl
63	62.3	627	11	US-11-079-463-6971	Sequence 6971, Ap
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65	62.3	2107	9	US-10-995-551-827	Sequence 827, App
66	62.3	2480	9	US-10-995-561-825	Sequence 825, App
67	62.3	3116	9	US-10-995-561-826	Sequence 826, App
68	62.3	15	9	US-10-530-061-1699	Sequence 1699, Ap
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71	60.4	158	9	US-10-530-253-26	Sequence 26, Appl
72	60.4	160	9	US-10-530-253-25	Sequence 25, Appl
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82	60.4	397	9	US-11-078-556A-155	Sequence 155, App
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85	60.4	460	11	US-11-096-568A-24135	Sequence 24135, A
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87	60.4	518	11	US-11-188-228-10922	Sequence 10922, A
88	60.4	519	11	US-11-188-228-10418	Sequence 10418, A
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90	60.4	538	11	US-11-124-368A-311	Sequence 311, App
91	60.4	538	11	US-11-124-368A-312	Sequence 312, App
92	60.4	538	11	US-11-124-368A-313	Sequence 313, App
93	60.4	543	11	US-11-188-228-2101	Sequence 2101, Ap
94	60.4	552	11	US-11-188-228-4843	Sequence 4843, Ap

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136	31	58.5	254	11	US-11-167-831-16	Sequence 16, App1	209	30	56.6	108	11	US-11-188-298-9803	Sequence 9803, Ap
137	31	58.5	254	11	US-11-167-831-17	Sequence 17, App1	210	30	56.6	110	11	US-11-188-298-5872	Sequence 5872, Ap
138	31	58.5	254	11	US-11-167-831-18	Sequence 18, App1	211	30	56.6	112	11	US-11-188-298-21450	Sequence 21450, A
139	31	58.5	254	11	US-11-167-831-19	Sequence 19, App1	212	30	56.6	133	11	US-11-098-686-10330	Sequence 10330, A
140	31	58.5	254	11	US-11-167-831-20	Sequence 20, App1	213	30	56.6	142	9	US-10-467-657-1558	Sequence 1558, Ap
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142	31	58.5	254	11	US-11-167-831-22	Sequence 22, App1	215	30	56.6	147	11	US-11-118-855-7	Sequence 7, App1
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163	31	58.5	419	11	US-11-045-004-2110	Sequence 2110, Ap	236	30	56.6	253	11	US-11-096-568A-33084	Sequence 33084, A
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166	31	58.5	426	9	US-10-454-437-72	Sequence 72, App1	239	30	56.6	272	11	US-11-096-568A-12730	Sequence 12730, A
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249	30	56.6	332	11	US-11-217-710-4	Sequence 4, Appl	322	30	56.6	684	9	US-10-714-781A-55	Sequence 57, Appl
250	30	56.6	335	11	US-11-174-819-73	Sequence 73, Appl	323	30	56.6	684	9	US-10-714-781A-61	Sequence 61, Appl
251	30	56.6	339	11	US-11-174-819-49	Sequence 49, Appl	324	30	56.6	684	9	US-10-714-781A-59	Sequence 59, Appl
252	30	56.6	339	11	US-11-174-816-37	Sequence 37, Appl	325	30	56.6	686	9	US-10-714-781A-59	Sequence 6, Appl
253	30	56.6	339	11	US-11-174-819-67	Sequence 67, Appl	326	30	56.6	691	11	US-11-210-960-6	Sequence 984, App
254	30	56.6	339	11	US-11-174-751-3	Sequence 3, Appl	327	30	56.6	712	9	US-10-995-561-984	Sequence 157, App
255	30	56.6	339	11	US-11-174-751-3	Sequence 46, Appl	328	30	56.6	752	9	US-10-506-454-157	Sequence 640, App
256	30	56.6	339	11	US-11-174-751-46	Sequence 6, Appl	329	30	56.6	762	9	US-10-506-454-748	Sequence 3015, App
257	30	56.6	339	11	US-11-217-710-6	Sequence 7, Appl	330	30	56.6	769	8	US-10-511-937-3015	Sequence 985, App
258	30	56.6	343	11	US-11-174-819-7	Sequence 12729, A	331	30	56.6	769	9	US-10-995-561-985	Sequence 986, App
259	30	56.6	344	11	US-11-096-568A-12729	Sequence 42, Appl	332	30	56.6	769	9	US-11-107-028-5	Sequence 5, Appl
260	30	56.6	347	11	US-11-174-816-42	Sequence 57, Appl	333	30	56.6	769	8	US-10-511-937-2445	Sequence 2445, Ap
261	30	56.6	347	11	US-11-174-816-57	Sequence 9, Appl	334	30	56.6	798	11	US-11-107-028-3	Sequence 3, Appl
262	30	56.6	347	11	US-11-174-819-9	Sequence 76, Appl	335	30	56.6	798	11	US-11-107-028-3	Sequence 31027, A
263	30	56.6	348	11	US-11-174-819-76	Sequence 12, Appl	336	30	56.6	875	11	US-11-096-568A-31026	Sequence 31026, A
264	30	56.6	351	9	US-10-467-657-8320	Sequence 8320, Ap	337	30	56.6	913	11	US-10-330-773-927	Sequence 927, App
265	30	56.6	354	11	US-11-096-568A-27838	Sequence 27838, A	338	30	56.6	1104	11	US-11-072-812-2506	Sequence 2506, App
266	30	56.6	362	9	US-10-784-004-365	Sequence 365, App	339	30	56.6	1201	11	US-11-045-004-689	Sequence 31027, A
267	30	56.6	362	11	US-11-087-028-253	Sequence 253, App	340	30	56.6	1217	11	US-11-074-176-252	Sequence 922, App
268	30	56.6	364	8	US-10-505-928-253	Sequence 253, App	341	30	56.6	1428	11	US-10-877-346-33	Sequence 33, Appl
269	30	56.6	364	9	US-10-194-487-36	Sequence 36, Appl	342	30	56.6	1437	11	US-10-877-346-33	Sequence 8094, App
270	30	56.6	364	9	US-10-195-883-36	Sequence 36, Appl	343	30	56.6	1620	9	US-10-055-877-213	Sequence 213, App
271	30	56.6	364	9	US-10-195-888-36	Sequence 36, Appl	344	30	56.6	1798	9	US-10-995-561-1033	Sequence 1033, App
272	30	56.6	364	9	US-10-195-889-36	Sequence 36, Appl	345	30	56.6	1798	9	US-10-995-561-1034	Sequence 1034, App
273	30	56.6	364	9	US-10-216-161A-515	Sequence 515, App	346	30	56.6	2440	9	US-10-766-317-10	Sequence 10, Appl
274	30	56.6	364	9	US-10-784-004-686	Sequence 686, App	347	30	56.6	2712	11	US-11-004-399-1736	Sequence 1736, App
275	30	56.6	367	11	US-11-087-029-7848	Sequence 7848, App	348	30	56.6	3333	9	US-10-766-317-4	Sequence 4, Appl
276	30	56.6	380	11	US-11-144-226-1	Sequence 1, Appl	349	30	56.6	3402	9	US-10-204-252-18	Sequence 18, Appl
277	30	56.6	400	9	US-10-948-053-4	Sequence 5, Appl	350	30	56.6	3433	9	US-10-714-781A-67	Sequence 67, Appl
278	30	56.6	400	9	US-10-948-053-5	Sequence 4, Appl	351	30	56.6	3433	11	US-11-223-729-2	Sequence 2, Appl
279	30	56.6	401	9	US-10-510-876-2	Sequence 2, Appl	352	30	56.6	3690	9	US-10-995-561-1016	Sequence 1016, App
280	30	56.6	401	9	US-10-510-876-4	Sequence 4, Appl	353	30	56.6	3714	9	US-10-995-561-1015	Sequence 1015, App
281	30	56.6	401	9	US-10-948-053-2	Sequence 2, Appl	354	30	56.6	3717	9	US-10-821-234-1076	Sequence 1076, App
282	30	56.6	401	9	US-10-948-053-8	Sequence 8, Appl	355	30	56.6	3969	9	US-10-974-127A-59	Sequence 59, Appl
283	30	56.6	401	9	US-10-921-793-52	Sequence 52, Appl	356	30	56.6	376	9	US-10-201-525-7	Sequence 7, Appl
284	30	56.6	401	9	US-10-931-198-52	Sequence 52, Appl	357	29.5	55.7	1609	11	US-11-072-175-185	Sequence 165, App
285	30	56.6	401	9	US-10-942-042-52	Sequence 52, Appl	358	29.5	55.7	8	11	US-11-045-024-10078	Sequence 10078, A
286	30	56.6	401	11	US-11-073-175-224	Sequence 224, App	359	29	54.7	9	11	US-11-045-024-11977	Sequence 11977, A
287	30	56.6	401	11	US-11-231-963-1	Sequence 1, Appl	360	29	54.7	9	9	US-10-530-061-103	Sequence 103, App
288	30	56.6	401	11	US-11-234-836-1	Sequence 1, Appl	361	29	54.7	9	9	US-10-530-061-838	Sequence 838, App
289	30	56.6	404	9	US-10-948-053-7	Sequence 7, Appl	362	29	54.7	10	11	US-11-045-024-10019	Sequence 10019, A
290	30	56.6	406	9	US-10-948-053-6	Sequence 6, Appl	363	29	54.7	11	11	US-11-045-024-10050	Sequence 10050, A
291	30	56.6	406	9	US-10-330-773-602	Sequence 602, App	364	29	54.7	34	11	US-11-004-399-2295	Sequence 2295, App
292	30	56.6	407	9	US-10-948-053-3	Sequence 3, Appl	365	29	54.7	76	11	US-11-188-298-20066	Sequence 20066, A
293	30	56.6	414	11	US-11-096-568A-32963	Sequence 32963, A	366	29	54.7	82	9	US-10-467-657-4230	Sequence 4230, App
294	30	56.6	420	10	US-11-232-370-7	Sequence 7, Appl	367	29	54.7	85	11	US-11-188-298-19214	Sequence 19214, A
295	30	56.6	450	11	US-11-096-568A-32962	Sequence 32962, A	368	29	54.7	86	11	US-11-188-298-8724	Sequence 8724, App
296	30	56.6	453	11	US-11-096-568A-32961	Sequence 32961, A	369	29	54.7	97	11	US-11-172-740-1554	Sequence 1554, App
297	30	56.6	459	11	US-11-014-842A-23	Sequence 23, Appl	370	29	54.7	98	11	US-11-188-298-1119	Sequence 1119, App
298	30	56.6	459	11	US-11-210-960-5	Sequence 5, Appl	371	29	54.7	101	11	US-11-172-740-1553	Sequence 1553, App
299	30	56.6	463	11	US-11-264-096-212	Sequence 212, App	372	29	54.7	109	11	US-11-096-568A-3602	Sequence 3602, App
300	30	56.6	472	11	US-11-087-009-5482	Sequence 5482, App	373	29	54.7	110	11	US-11-172-740-1549	Sequence 1549, App
301	30	56.6	474	11	US-11-087-009-5559	Sequence 5559, App	374	29	54.7	110	11	US-11-188-298-6810	Sequence 6810, App
302	30	56.6	489	11	US-11-264-096-211	Sequence 211, App	375	29	54.7	110	11	US-11-188-298-17121	Sequence 17121, A
303	30	56.6	500	9	US-10-517-151-4	Sequence 4, Appl	376	29	54.7	110	11	US-11-188-298-17288	Sequence 17288, A
304	30	56.6	524	9	US-10-878-556A-131	Sequence 131, App	377	29	54.7	110	11	US-11-188-298-17374	Sequence 17374, A
305	30	56.6	524	10	US-11-232-370-12	Sequence 12, Appl	378	29	54.7	110	11	US-11-188-298-20064	Sequence 20064, A
306	30	56.6	525	10	US-11-232-370-13	Sequence 13, Appl	379	29	54.7	110	11	US-11-188-298-14360	Sequence 14360, A
307	30	56.6	525	10	US-11-232-370-14	Sequence 14, Appl	380	29	54.7	110	11	US-11-188-298-14516	Sequence 14516, A
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310	30	56.6	543	10	US-11-232-370-6	Sequence 6, Appl	383	29	54.7	110	11	US-11-188-298-17288	Sequence 17288, A
311	30	56.6	544	10	US-11-232-370-9	Sequence 9, Appl	384	29	54.7	110	11	US-11-188-298-17374	Sequence 17374, A
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313	30	56.6	545	10	US-11-232-370-8	Sequence 8, Appl	386	29	54.7	110	11	US-11-188-298-17374	Sequence 17374, A

387	29	54.7	110	11	US-11-188-298-20232	Sequence 20232, A	460	29	54.7	384	11	US-11-074-176-78	Sequence 78, Appl
388	29	54.7	110	11	US-11-188-298-22105	Sequence 22105, A	461	29	54.7	394	11	US-11-045-004-1695	Sequence 1695, Ap
389	29	54.7	116	11	US-11-096-568A-3601	Sequence 3601, Ap	462	29	54.7	397	11	US-11-096-568A-20829	Sequence 20829, A
390	29	54.7	118	11	US-11-096-568A-9801	Sequence 9801, Ap	463	29	54.7	414	9	US-10-467-657-4316	Sequence 4316, Ap
391	29	54.7	143	9	US-10-714-887-336	Sequence 336, Ap	464	29	54.7	434	11	US-11-096-568A-20828	Sequence 20828, A
392	29	54.7	158	9	US-10-530-253-19	Sequence 19, Appl	465	29	54.7	436	11	US-11-156-084-229	Sequence 229, Ap
393	29	54.7	159	9	US-11-188-298-8447	Sequence 8447, Ap	466	29	54.7	438	11	US-11-096-568A-33128	Sequence 33128, A
394	29	54.7	171	9	US-10-506-454-449	Sequence 449, Ap	467	29	54.7	449	8	US-10-505-928-517	Sequence 517, Ap
395	29	54.7	178	11	US-11-188-298-21910	Sequence 21910, A	468	29	54.7	449	11	US-11-177-506-32	Sequence 32, Appl
396	29	54.7	180	11	US-11-188-298-11472	Sequence 11472, A	469	29	54.7	460	11	US-11-096-568A-20827	Sequence 20827, A
397	29	54.7	183	11	US-11-188-298-22542	Sequence 22542, A	470	29	54.7	463	9	US-10-821-234-1094	Sequence 1094, Ap
398	29	54.7	184	11	US-11-172-740-1185	Sequence 1185, Ap	471	29	54.7	466	11	US-11-087-099-1606	Sequence 1606, Ap
399	29	54.7	192	11	US-11-022-478-17	Sequence 17, Appl	472	29	54.7	476	11	US-11-096-568A-33127	Sequence 33127, Ap
400	29	54.7	195	11	US-11-096-568A-15289	Sequence 15289, A	473	29	54.7	484	11	US-11-078-735-37	Sequence 37, Appl
401	29	54.7	198	11	US-11-255-547-2	Sequence 2, Appl1	474	29	54.7	484	11	US-11-050-346-37	Sequence 37, Appl
402	29	54.7	207	11	US-11-096-568A-7518	Sequence 7518, Ap	475	29	54.7	486	11	US-11-000-463-273	Sequence 273, Appl
403	29	54.7	209	11	US-11-087-099-7360	Sequence 7360, Ap	476	29	54.7	501	11	US-11-172-740-441	Sequence 441, Appl
404	29	54.7	210	9	US-10-330-773-614	Sequence 614, Ap	477	29	54.7	503	11	US-11-188-298-14022	Sequence 14022, A
405	29	54.7	219	11	US-11-079-463-9752	Sequence 9752, Ap	478	29	54.7	516	11	US-11-096-568A-18290	Sequence 18290, A
406	29	54.7	223	9	US-10-499-246-8	Sequence 8, Appl1	479	29	54.7	516	11	US-11-096-568A-33126	Sequence 33126, A
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408	29	54.7	231	11	US-11-096-568A-27105	Sequence 27105, A	481	29	54.7	539	9	US-10-784-004-1774	Sequence 774, Ap
409	29	54.7	234	9	US-10-330-773-611	Sequence 611, Ap	482	29	54.7	595	9	US-10-784-004-1108	Sequence 1108, Ap
410	29	54.7	237	11	US-11-079-463-8874	Sequence 8874, Ap	483	29	54.7	605	11	US-11-046-653-3	Sequence 3, Appl1
411	29	54.7	238	11	US-11-096-568A-27104	Sequence 27104, A	484	29	54.7	609	11	US-11-096-568A-27554	Sequence 27554, A
412	29	54.7	239	11	US-11-096-568A-15288	Sequence 15288, A	485	29	54.7	628	11	US-11-183-136-10	Sequence 10, Appl
413	29	54.7	240	9	US-10-763-712A-55	Sequence 55, Appl	486	29	54.7	628	11	US-11-183-136-12	Sequence 12, Appl
414	29	54.7	240	11	US-11-229-769-143	Sequence 143, Appl	487	29	54.7	646	11	US-11-096-568A-27553	Sequence 27553, A
415	29	54.7	243	11	US-11-096-568A-27103	Sequence 27103, A	488	29	54.7	655	8	US-10-505-928-843	Sequence 843, Ap
416	29	54.7	244	11	US-11-087-099-7355	Sequence 7355, Ap	489	29	54.7	655	9	US-10-194-487-418	Sequence 418, Ap
417	29	54.7	253	11	US-11-096-568A-7517	Sequence 7517, Ap	490	29	54.7	655	9	US-10-195-883-418	Sequence 418, Ap
418	29	54.7	271	11	US-11-096-568A-28742	Sequence 28742, A	491	29	54.7	655	9	US-10-195-888-418	Sequence 418, Ap
419	29	54.7	275	11	US-11-096-568A-19926	Sequence 19926, A	492	29	54.7	655	9	US-10-195-889-418	Sequence 418, Ap
420	29	54.7	279	9	US-10-469-469-53	Sequence 53, Appl	493	29	54.7	655	9	US-10-216-161A-64	Sequence 64, Appl
421	29	54.7	279	11	US-11-096-568A-18292	Sequence 18292, A	494	29	54.7	655	11	US-11-072-175-199	Sequence 199, Ap
422	29	54.7	284	11	US-11-096-568A-19925	Sequence 19925, A	495	29	54.7	665	9	US-10-784-004-771	Sequence 771, Ap
423	29	54.7	284	11	US-11-096-568A-29088	Sequence 29088, A	496	29	54.7	665	9	US-10-784-004-1107	Sequence 1107, Ap
424	29	54.7	285	11	US-11-188-298-17365	Sequence 17365, A	497	29	54.7	668	11	US-11-096-568A-31245	Sequence 31245, A
425	29	54.7	286	11	US-11-096-568A-25131	Sequence 25131, A	498	29	54.7	673	9	US-10-469-469-212	Sequence 212, Ap
426	29	54.7	290	11	US-11-096-568A-15287	Sequence 15287, A	499	29	54.7	673	9	US-10-469-469-214	Sequence 214, Ap
427	29	54.7	291	11	US-11-078-735-30	Sequence 30, Appl	500	29	54.7	690	11	US-11-096-568A-31244	Sequence 31244, A
428	29	54.7	291	11	US-11-050-346-24	Sequence 24, Appl	501	29	54.7	705	11	US-11-188-298-20662	Sequence 20662, A
429	29	54.7	295	9	US-10-499-246-10	Sequence 10, Appl	502	29	54.7	712	11	US-11-037-243-69	Sequence 69, Appl
430	29	54.7	305	11	US-11-096-568A-7516	Sequence 7516, Ap	503	29	54.7	715	11	US-11-096-568A-27552	Sequence 27552, A
431	29	54.7	308	11	US-11-096-568A-28741	Sequence 28741, A	504	29	54.7	721	11	US-11-022-478-12	Sequence 12, Appl
432	29	54.7	317	11	US-11-000-463-428	Sequence 428, Ap	505	29	54.7	722	11	US-11-022-478-14	Sequence 14, Appl
433	29	54.7	324	11	US-11-096-568A-16663	Sequence 16663, A	506	29	54.7	723	9	US-10-131-826A-346	Sequence 346, Ap
434	29	54.7	331	11	US-11-078-735-33	Sequence 33, Appl	507	29	54.7	723	9	US-10-973-115B-346	Sequence 346, Ap
435	29	54.7	331	11	US-11-050-346-27	Sequence 27, Appl	508	29	54.7	723	9	US-10-137-873A-346	Sequence 346, Ap
436	29	54.7	332	8	US-10-511-937-2626	Sequence 2626, Ap	509	29	54.7	723	11	US-10-152-370-346	Sequence 346, Ap
437	29	54.7	332	11	US-11-078-735-51	Sequence 51, Appl	510	29	54.7	723	11	US-11-078-735-17	Sequence 17, Appl
438	29	54.7	332	11	US-11-050-346-41	Sequence 41, Appl	511	29	54.7	723	11	US-11-050-346-62	Sequence 62, Appl
439	29	54.7	332	11	US-11-103-077-24	Sequence 24, Appl	512	29	54.7	723	11	US-11-103-077-17	Sequence 17, Appl
440	29	54.7	337	11	US-11-096-568A-12511	Sequence 12511, A	513	29	54.7	723	11	US-11-290-153-346	Sequence 346, Ap
441	29	54.7	344	11	US-11-096-568A-18291	Sequence 18291, A	514	29	54.7	723	11	US-11-058-066-17	Sequence 17, Appl
442	29	54.7	357	11	US-11-072-512-2570	Sequence 2570, Ap	515	29	54.7	727	9	US-10-784-004-449	Sequence 449, Ap
443	29	54.7	358	9	US-10-131-826A-416	Sequence 416, Ap	516	29	54.7	727	9	US-10-784-004-958	Sequence 958, Ap
444	29	54.7	358	9	US-10-973-115B-416	Sequence 416, Ap	517	29	54.7	728	11	US-11-022-478-11	Sequence 11, Appl
445	29	54.7	358	9	US-10-218-784-138	Sequence 138, Ap	518	29	54.7	780	11	US-11-188-298-16517	Sequence 16517, A
446	29	54.7	358	9	US-10-219-061-138	Sequence 138, Ap	519	29	54.7	783	9	US-10-204-639-48	Sequence 48, Appl
447	29	54.7	358	9	US-10-219-062-138	Sequence 138, Ap	520	29	54.7	829	11	US-11-096-568A-20149	Sequence 20149, A
448	29	54.7	358	9	US-10-219-064-138	Sequence 138, Ap	521	29	54.7	843	11	US-11-096-568A-20148	Sequence 20148, A
449	29	54.7	358	9	US-10-233-134-138	Sequence 138, Ap	522	29	54.7	864	11	US-11-050-346-10	Sequence 10, Appl
450	29	54.7	358	9	US-10-137-873A-416	Sequence 416, Ap	523	29	54.7	864	11	US-11-103-077-29	Sequence 29, Appl
451	29	54.7	358	9	US-10-152-370-416	Sequence 416, Ap	524	29	54.7	876	11	US-11-096-568A-20147	Sequence 20147, A
452	29	54.7	358	11	US-11-227-543-21	Sequence 21, Appl	525	29	54.7	882	11	US-11-096-568A-31243	Sequence 31243, A
453	29	54.7	358	11	US-11-290-153-416	Sequence 416, Ap	526	29	54.7	912	11	US-11-096-568A-31185	Sequence 31185, A
454	29	54.7	367	11	US-11-096-568A-25130	Sequence 25130, A	527	29	54.7	948	9	US-10-523-477-14	Sequence 14, Appl
455	29	54.7	369	11	US-11-078-735-38	Sequence 38, Appl	528	29	54.7	948	9	US-11-096-568A-29121	Sequence 29121, A
456	29	54.7	369	11	US-11-050-346-32	Sequence 32, Appl	529	29	54.7	965	11	US-10-501-035-219	Sequence 219, Ap
457	29	54.7	375	11	US-11-096-568A-12510	Sequence 12510, A	530	29	54.7	979	11	US-11-096-568A-29120	Sequence 29120, A
458	29	54.7	377	11	US-11-072-512-3189	Sequence 3189, Ap	531	29	54.7	979	11	US-11-096-568A-29120	Sequence 29120, A
459	29	54.7	377	11	US-11-096-568A-28740	Sequence 28740, A	532	29	54.7	1005	11	US-11-113-424-63	Sequence 63, Appl

533	29	54.7	1011	9	US-10-877-346-127	Sequence 127, App	606	28	52.8	159	11	US-11-132-285-7	Sequence 7, Appl
534	29	54.7	1026	11	US-11-096-568A-31183	Sequence 31183, A	607	28	52.8	159	11	US-11-097-292-12	Sequence 12, Appl
535	29	54.7	1069	11	US-11-096-568A-29119	Sequence 29119, A	608	28	52.8	167	9	US-10-467-657-1272	Sequence 7972, Ap
536	29	54.7	1077	11	US-11-096-568A-27027	Sequence 27027, A	609	28	52.8	167	11	US-11-096-568A-7096	Sequence 7096, Ap
537	29	54.7	1198	9	US-10-877-346-35	Sequence 35, Appl	610	28	52.8	174	11	US-11-072-512-2144	Sequence 2144, Ap
538	29	54.7	1221	9	US-10-506-454-49	Sequence 49, Appl	611	28	52.8	175	9	US-10-506-454-84	Sequence 84, Appl
539	29	54.7	1275	9	US-10-877-346-36	Sequence 36, Appl	612	28	52.8	186	11	US-11-096-568A-23760	Sequence 23760, A
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542	29	54.7	1388	11	US-11-098-686-11149	Sequence 11149, A	615	28	52.8	200	9	US-10-506-454-860	Sequence 860, App
543	29	54.7	1428	9	US-10-877-346-34	Sequence 34, Appl	616	28	52.8	200	11	US-11-096-568A-5879	Sequence 5879, Ap
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546	29	54.7	1464	11	US-11-124-367A-262	Sequence 262, App	619	28	52.8	207	11	US-11-072-512-2607	Sequence 2607, App
547	29	54.7	1517	11	US-11-096-568A-27856	Sequence 27856, A	620	28	52.8	208	11	US-11-096-568A-988	Sequence 988, App
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562	28	52.8	10	9	US-10-530-061-473	Sequence 473, App	635	28	52.8	244	11	US-11-096-568A-997	Sequence 997, App
563	28	52.8	10	9	US-10-530-061-567	Sequence 567, App	636	28	52.8	245	11	US-11-079-463-5960	Sequence 5960, Ap
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574	28	52.8	44	9	US-10-467-657-5836	Sequence 5836, Ap	647	28	52.8	288	11	US-11-096-568A-13559	Sequence 13559, A
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576	28	52.8	52	11	US-11-188-298-3867	Sequence 3867, Ap	649	28	52.8	296	11	US-11-079-463-9322	Sequence 9322, App
577	28	52.8	53	9	US-10-895-064-875	Sequence 875, App	650	28	52.8	296	11	US-11-229-769-493	Sequence 293, App
578	28	52.8	53	11	US-11-129-741-875	Sequence 875, App	651	28	52.8	297	9	US-10-967-527A-17	Sequence 17, Appl
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583	28	52.8	78	11	US-11-045-004-2778	Sequence 2778, Ap	656	28	52.8	313	11	US-11-010-239-123	Sequence 123, App
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587	28	52.8	101	11	US-11-172-740-1552	Sequence 1552, Ap	660	28	52.8	321	11	US-11-188-298-7609	Sequence 7609, Ap
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590	28	52.8	107	11	US-11-188-298-20880	Sequence 20880, A	663	28	52.8	331	9	US-10-506-454-352	Sequence 352, App
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593	28	52.8	113	11	US-11-072-512-2080	Sequence 2080, Ap	666	28	52.8	340	11	US-11-188-298-8371	Sequence 8371, Ap
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596	28	52.8	124	11	US-11-182-908-20	Sequence 20, Appl	669	28	52.8	355	11	US-10-467-657-8284	Sequence 8284, Ap
597	28	52.8	135	11	US-11-205-225-12	Sequence 12, Appl	670	28	52.8	355	11	US-11-108-528-16	Sequence 16, Appl
598	28	52.8	138	11	US-11-296-017-1	Sequence 1, Appl	671	28	52.8	361	9	US-10-131-826A-252	Sequence 18, Appl
599	28	52.8	140	11	US-11-072-512-3489	Sequence 3489, Ap	672	28	52.8	361	9	US-10-131-115B-252	Sequence 252, App
600	28	52.8	141	11	US-11-045-004-667	Sequence 667, App	673	28	52.8	361	9	US-10-137-872A-252	Sequence 252, App
601	28	52.8	141	11	US-11-296-017-2	Sequence 2, Appl	674	28	52.8	361	9	US-10-137-872A-252	Sequence 252, App
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603	28	52.8	150	11	US-11-096-568A-7097	Sequence 7097, Ap	676	28	52.8	364	11	US-11-096-568A-5018	Sequence 5018, Ap
604	28	52.8	158	11	US-11-097-292-2	Sequence 2, Appl	677	28	52.8	365	11	US-11-188-298-5665	Sequence 5665, Ap
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680	28	52.8	377	11	US-11-188-298-16552	Sequence 16552, A	753	28	52.8	666	11	US-11-249-893-4	Sequence 4, Appl1
681	28	52.8	410	11	US-11-096-568A-12704	Sequence 12704, A	754	28	52.8	666	11	US-11-249-893-5	Sequence 5, Appl1
682	28	52.8	410	9	US-10-506-454-813	Sequence 813, App	755	28	52.8	666	11	US-11-249-893-6	Sequence 6, Appl1
683	28	52.8	416	11	US-11-195-851-18	Sequence 18, Appl1	756	28	52.8	666	11	US-11-249-893-7	Sequence 7, Appl1
684	28	52.8	417	11	US-11-108-528-64	Sequence 64, Appl1	757	28	52.8	666	11	US-11-249-893-8	Sequence 8, Appl1
685	28	52.8	417	11	US-11-108-528-66	Sequence 66, Appl1	758	28	52.8	666	11	US-11-249-893-9	Sequence 9, Appl1
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687	28	52.8	419	11	US-11-113-202-2	Sequence 2, Appl1	760	28	52.8	666	11	US-11-249-893-11	Sequence 11, Appl1
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689	28	52.8	419	11	US-11-113-202-23	Sequence 23, Appl1	762	28	52.8	630	11	US-11-079-463-6770	Sequence 6770, Ap
690	28	52.8	419	11	US-11-205-225-4	Sequence 4, Appl1	763	28	52.8	632	11	US-11-150-533-2	Sequence 2, Appl1
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692	28	52.8	424	11	US-11-079-463-6981	Sequence 6981, Ap	765	28	52.8	705	9	US-10-063-407-162	Sequence 162, App
693	28	52.8	425	11	US-11-087-099-576	Sequence 576, App	766	28	52.8	705	9	US-10-194-487-598	Sequence 598, App
694	28	52.8	426	11	US-11-087-099-12206	Sequence 12206, A	767	28	52.8	705	9	US-10-195-883-598	Sequence 598, App
695	28	52.8	427	11	US-11-087-099-12206	Sequence 12206, A	768	28	52.8	705	9	US-10-195-888-598	Sequence 598, App
696	28	52.8	429	11	US-11-072-512-2786	Sequence 2786, Ap	769	28	52.8	705	9	US-10-195-889-598	Sequence 598, App
697	28	52.8	431	11	US-11-150-533-43	Sequence 43, Appl1	770	28	52.8	705	10	US-11-311-555-14	Sequence 14, Appl1
698	28	52.8	432	11	US-11-150-533-3	Sequence 3, Appl1	771	28	52.8	705	10	US-11-311-555-14	Sequence 14, Appl1
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702	28	52.8	441	11	US-11-087-099-7739	Sequence 7739, Ap	775	28	52.8	708	11	US-11-150-533-65	Sequence 65, Appl1
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704	28	52.8	455	11	US-11-147-763-26	Sequence 26, Appl1	777	28	52.8	720	9	US-10-194-487-170	Sequence 170, App
705	28	52.8	461	8	US-10-511-937-2945	Sequence 2945, Ap	778	28	52.8	720	9	US-10-195-883-170	Sequence 170, App
706	28	52.8	461	9	US-10-523-328-5	Sequence 5, Appl1	779	28	52.8	720	9	US-10-195-888-170	Sequence 170, App
707	28	52.8	461	10	US-11-183-218-32	Sequence 32, Appl1	780	28	52.8	720	9	US-10-195-889-170	Sequence 170, App
708	28	52.8	461	11	US-11-132-285-6	Sequence 6, Appl1	781	28	52.8	720	11	US-11-102-240-38	Sequence 38, Appl1
709	28	52.8	461	11	US-11-182-246-4	Sequence 4, Appl1	782	28	52.8	720	11	US-11-103-195-38	Sequence 38, Appl1
710	28	52.8	461	11	US-11-183-205-32	Sequence 32, Appl1	783	28	52.8	720	11	US-11-103-195-38	Sequence 38, Appl1
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712	28	52.8	461	11	US-11-079-463-5324	Sequence 5324, Ap	785	28	52.8	767	9	US-10-467-657-2430	Sequence 2430, Ap
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716	28	52.8	505	11	US-11-364-096-808	Sequence 808, App	789	28	52.8	796	11	US-11-098-686-10952	Sequence 10952, A
717	28	52.8	509	11	US-11-188-298-21426	Sequence 21426, A	790	28	52.8	808	9	US-10-523-503-24	Sequence 24, Appl1
718	28	52.8	512	11	US-11-072-512-2978	Sequence 2978, Ap	791	28	52.8	808	11	US-11-072-512-2324	Sequence 2324, Ap
719	28	52.8	513	9	US-10-131-826A-192	Sequence 192, App	792	28	52.8	825	11	US-11-200-296B-10	Sequence 6, Appl1
720	28	52.8	513	9	US-10-995-561-566	Sequence 566, App	793	28	52.8	825	11	US-11-200-296B-10	Sequence 10, Appl1
721	28	52.8	513	9	US-10-973-115B-192	Sequence 192, App	794	28	52.8	825	11	US-11-200-296B-12	Sequence 12, Appl1
722	28	52.8	513	9	US-10-137-873A-192	Sequence 192, App	795	28	52.8	838	9	US-10-645-441-9	Sequence 9, Appl1
723	28	52.8	513	9	US-10-152-370-192	Sequence 192, App	796	28	52.8	839	9	US-10-725-475-6	Sequence 6, Appl1
724	28	52.8	513	11	US-11-290-153-192	Sequence 192, App	797	28	52.8	839	11	US-11-050-804-4	Sequence 4, Appl1
725	28	52.8	516	11	US-11-188-298-455	Sequence 455, App	798	28	52.8	844	9	US-10-453-572-852	Sequence 852, App
726	28	52.8	525	11	US-11-102-120-13	Sequence 13, Appl1	799	28	52.8	844	9	US-10-453-572-856	Sequence 856, App
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729	28	52.8	546	11	US-11-305-225-10	Sequence 10, Appl1	802	28	52.8	954	11	US-11-079-463-6804	Sequence 6804, Ap
730	28	52.8	583	11	US-11-087-099-7593	Sequence 7593, Ap	803	28	52.8	957	11	US-11-098-686-11422	Sequence 11422, A
731	28	52.8	590	11	US-11-124-368A-183	Sequence 183, App	804	28	52.8	961	9	US-10-831-997-4	Sequence 4, Appl1
732	28	52.8	590	11	US-11-127-877-54	Sequence 54, Appl1	805	28	52.8	964	11	US-11-089-551A-30	Sequence 30, Appl1
733	28	52.8	591	11	US-11-096-568A-12702	Sequence 12702, A	806	28	52.8	1015	11	US-11-203-251A-81	Sequence 81, Appl1
734	28	52.8	597	11	US-11-188-298-9219	Sequence 9219, Ap	807	28	52.8	1037	11	US-11-203-251A-81	Sequence 81, Appl1
735	28	52.8	617	11	US-11-264-096-810	Sequence 810, App	808	28	52.8	1099	11	US-11-213-326-10	Sequence 10, Appl1
736	28	52.8	629	9	US-10-467-657-250	Sequence 250, App	809	28	52.8	1255	9	US-10-770-726-62	Sequence 62, Appl1
737	28	52.8	629	9	US-10-467-657-5084	Sequence 3084, Ap	810	28	52.8	1255	11	US-11-022-566-213	Sequence 213, App
738	28	52.8	632	11	US-11-213-326-4	Sequence 4, Appl1	811	28	52.8	1255	11	US-11-113-202-10	Sequence 10, Appl1
739	28	52.8	632	11	US-11-249-893-12	Sequence 12, Appl1	812	28	52.8	1255	11	US-11-033-039-553	Sequence 553, App
740	28	52.8	645	11	US-11-154-337-13	Sequence 13, Appl1	813	28	52.8	1255	11	US-11-155-288-9	Sequence 9, Appl1
741	28	52.8	645	11	US-11-223-361-13	Sequence 13, Appl1	814	28	52.8	1255	11	US-11-202-516-4	Sequence 4, Appl1
742	28	52.8	645	11	US-11-213-357-1	Sequence 1, Appl1	815	28	52.8	1255	11	US-11-175-405-2	Sequence 2, Appl1
743	28	52.8	645	11	US-11-222-587-13	Sequence 13, Appl1	816	28	52.8	1258	11	US-11-033-039-930	Sequence 930, App
744	28	52.8	645	11	US-11-234-586-13	Sequence 13, Appl1	817	28	52.8	1275	11	US-11-188-298-7550	Sequence 12869, A
745	28	52.8	646	11	US-11-234-586-13	Sequence 13, Appl1	818	28	52.8	1306	11	US-11-188-298-7550	Sequence 7550, Ap
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ALIGNMENTS

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; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.033US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530.061
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 781
; LENGTH: 11
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-781

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Best Local Similarity 100.0%; Pred. No. 0.0027;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Cassetti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530.253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
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; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-10-530-253-13

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; Publication No. US20060039919A1
; GENERAL INFORMATION:
; APPLICANT: Healthbanc Biotech CO. LTD.
; TITLE OF INVENTION: Fusion protein for inhibiting cervical cancer
; FILE REFERENCE: P7819/0613
; CURRENT APPLICATION NUMBER: US/11/206.138
; CURRENT FILING DATE: 2005-08-18
; NUMBER OF SEQ ID NOS: 14
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US-11-206-138-3

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RESULT 4
US-10-530-253-1
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; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Cassetti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530.253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
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;; PRIOR APPLICATION NUMBER: US 60/415,929
;; PRIOR FILING DATE: 2002-10-03
;; NUMBER OF SEQ ID NOS: 65
;; SOFTWARE: PatentIn version 3.1
;; SEQ ID NO 1
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;; TYPE: PRT
;; ORGANISM: Human papillomavirus type 16
US-10-530-253-1

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Best Local Similarity 100.0%; Pred. No. 0.038;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 YAVCDKCLK 9
Db 60 YAVCDKCLK 68

RESULT 5
US-10-530-253-7
;; Sequence 7, Application US/10530253
;; Publication No. US200600192661
;; GENERAL INFORMATION:
;; APPLICANT: Casasetti, Maria C.
;; APPLICANT: Smith, Larry
;; APPLICANT: Jeffrey K. Pullen
;; APPLICANT: Susan P. McGrath
;; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;; FILE REFERENCE: 00630/100M137-US2
;; CURRENT APPLICATION NUMBER: US/10/530, 253
;; PRIOR FILING DATE: 2005-04-04
;; PRIOR APPLICATION NUMBER: PCT/US2003/031726
;; PRIOR FILING DATE: 2003-10-02
;; PRIOR APPLICATION NUMBER: US 60/415,929
;; PRIOR FILING DATE: 2002-10-03
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US-10-530-253-7

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US-11-192-923A-2
;; Sequence 2, Application US/11192923A
;; Publication No. US20060018928A1
;; GENERAL INFORMATION:
;; APPLICANT: PANIG, XIAOMU
;; TITLE OF INVENTION: VIRUS-LIKE PARTICLE CONTAINING A DENGUE VIRUS
;; FILE REFERENCE: 116620-003
;; CURRENT APPLICATION NUMBER: US/11/192,923A
;; PRIOR FILING DATE: 2005-07-29
;; PRIOR APPLICATION NUMBER: CN 03115272.4
;; PRIOR FILING DATE: 2003-01-30
;; PRIOR APPLICATION NUMBER: CN 03115273.2
;; PRIOR FILING DATE: 2003-01-30
;; NUMBER OF SEQ ID NOS: 45
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;; ORGANISM: Human papillomavirus
US-11-192-923A-2

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Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 YAVCDKCLK 9
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RESULT 7
US-10-530-061-604
;; Sequence 604, Application US/10530061
;; Publication No. US20060079453A1
;; GENERAL INFORMATION:
;; APPLICANT: SIDNEY, JOHN
;; APPLICANT: SOUTHWOOD, SCOTT
;; APPLICANT: SETTE, ALESSANDRO
;; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
;; FILE REFERENCE: 2060.033US02/EKS/M-M
;; CURRENT APPLICATION NUMBER: US/10/530, 061
;; PRIOR FILING DATE: 2005-04-04
;; PRIOR APPLICATION NUMBER: PCT/US03/31308
;; PRIOR FILING DATE: 2003-10-03
;; PRIOR APPLICATION NUMBER: 60/416,207
;; PRIOR FILING DATE: 2002-10-03
;; PRIOR APPLICATION NUMBER: 60/417,269
;; PRIOR FILING DATE: 2002-10-08
;; NUMBER OF SEQ ID NOS: 2503
;; SOFTWARE: PatentIn version 3.3
;; SEQ ID NO 604
;; LENGTH: 9
;; TYPE: PRT
;; ORGANISM: Human papillomavirus
US-10-530-061-604

Query Match 94.3%; Score 50; DB 9; Length 9;
Best Local Similarity 88.9%; Pred. No. 1.9e+05;
Matches 8; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 YAVCDKCLK 9
Db 1 YAVCDKCLK 9

RESULT 8
US-10-530-061-603
;; Sequence 603, Application US/10530061
;; Publication No. US20060079453A1
;; GENERAL INFORMATION:
;; APPLICANT: SIDNEY, JOHN
;; APPLICANT: SOUTHWOOD, SCOTT
;; APPLICANT: SETTE, ALESSANDRO
;; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
;; FILE REFERENCE: 2060.033US02/EKS/M-M
;; CURRENT APPLICATION NUMBER: US/10/530, 061
;; PRIOR FILING DATE: 2005-04-04
;; PRIOR APPLICATION NUMBER: PCT/US03/31308
;; PRIOR FILING DATE: 2003-10-03
;; PRIOR APPLICATION NUMBER: 60/416,207
;; PRIOR FILING DATE: 2002-10-03
;; PRIOR APPLICATION NUMBER: 60/417,269
;; PRIOR FILING DATE: 2002-10-08
;; NUMBER OF SEQ ID NOS: 2503
;; SOFTWARE: PatentIn version 3.3
;; SEQ ID NO 603
;; LENGTH: 9
;; TYPE: PRT
;; ORGANISM: Human papillomavirus
US-10-530-061-603

Query Match 92.5%; Score 49; DB 9; Length 9;
Best Local Similarity 88.9%; Pred. No. 1.9e+05;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 YAVCDKCLK 9
Db 1 YVVCDCCLK 9

RESULT 9
US-10-530-061-502

; Sequence 502, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.033US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; PRIOR FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 502
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-502

Query Match 86.8%; Score 46; DB 9; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.039;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 AVCDKCLK 9
Db 1 AVCDKCLK 8

RESULT 10
US-10-530-061-801

; Sequence 801, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.033US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 801
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-801

Query Match 83.0%; Score 44; DB 9; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.9e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 YAVCDKC 7
Db 2 YAVCDKC 8

RESULT 11
US-10-530-061-501

; Sequence 501, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.033US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 501
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-501

Query Match 79.2%; Score 42; DB 9; Length 10;
Best Local Similarity 87.5%; Pred. No. 0.19;
Matches 7; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2 AVCDKCLK 9
Db 1 ATCDKCLK 8

RESULT 12
US-10-530-253-3

; Sequence 3, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Casasetti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McIlhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 3
; LENGTH: 248
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-10-530-253-3

Query Match 77.4%; Score 41; DB 9; Length 248;
Best Local Similarity 88.9%; Pred. No. 4.4;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 YAVCDKCLK 9
Db 60 YAVGDKCLK 68


```
RESULT 13
US-10-530-253-5
; Sequence 5, Application US/10530253
; Publication No. US2006001926A1
; GENERAL INFORMATION:
; APPLICANT: Casseati, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; PRIOR FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 5
; LENGTH: 248
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-10-530-253-5

Query Match      77.4%; Score 41; DB 9; Length 248;
Best Local Similarity 88.9%; Pred. No. 4.4;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1 YAVCDKCLK 9
      ||| ||| |||
Db      60 YAVGDKCLK 68

RESULT 14
US-10-530-253-9
; Sequence 9, Application US/10530253
; Publication No. US2006001926A1
; GENERAL INFORMATION:
; APPLICANT: Casseati, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 9
; LENGTH: 248
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-10-530-253-9

Query Match      77.4%; Score 41; DB 9; Length 248;
Best Local Similarity 88.9%; Pred. No. 4.4;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1 YAVCDKCLK 9
      ||| ||| |||
Db      157 YAVGDKCLK 165

RESULT 15
US-10-530-253-11
; Sequence 11, Application US/10530253
```

```
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Casseati, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 11
; LENGTH: 248
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-10-530-253-11

Query Match      77.4%; Score 41; DB 9; Length 248;
Best Local Similarity 88.9%; Pred. No. 4.4;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1 YAVCDKCLK 9
      ||| ||| |||
Db      157 YAVGDKCLK 165

RESULT 16
US-10-506-454-517
; Sequence 517, Application US/10506454
; Publication No. US2006008386A1
; GENERAL INFORMATION:
; APPLICANT: Slesarev, Alexi I
; APPLICANT: Mezheva, Katja V
; APPLICANT: Polushin, Nikolai N
; APPLICANT: Shcherbina, Olga V
; APPLICANT: Shakhova, Vera V
; APPLICANT: Malykh, Andrei G
; APPLICANT: Kozayavkin, Sergei A
; TITLE OF INVENTION: The Complete Genome and Protein Sequences of the Hyperthermophile
; TITLE OF INVENTION: Methanopyrus Kandleri AV19 and Monophyly of Archaeal Methanogens
; FILE REFERENCE: FID001
; CURRENT APPLICATION NUMBER: US/10/506,454
; CURRENT FILING DATE: 2004-08-31
; PRIOR APPLICATION NUMBER: PCT/US03/06664
; PRIOR FILING DATE: 2003-03-04
; PRIOR APPLICATION NUMBER: 60/361,742
; PRIOR FILING DATE: 2002-03-04
; NUMBER OF SEQ ID NOS: 1722
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 517
; LENGTH: 354
; TYPE: PRT
; ORGANISM: Methanopyrus kandleri
US-10-506-454-517

Query Match      77.4%; Score 41; DB 9; Length 354;
Best Local Similarity 55.6%; Pred. No. 5.9;
Matches 5; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY      1 YAVCDKCLK 9
      :|:|:|:|:|
Db      133 FALCDKCLK 141

RESULT 17
US-10-530-253-18
; Sequence 18, Application US/10530253
```

```
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Cassecci, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhiney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 18
; LENGTH: 149
; TYPE: PRT
; ORGANISM: Human papillomavirus type 35
US-10-530-253-18
```

```
Query Match 75.5%; Score 40; DB 9; Length 149;
Best Local Similarity 77.8%; Pred. No. 4.2;
Matches 7; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
```

```
OY 1 YAVCDKCLK 9
Db 60 YGVCMKCLK 68
```

```
RESULT 18
US-10-506-454-901
; Sequence 901, Application US/10506454
; Publication No. US20060068386A1
; GENERAL INFORMATION:
; APPLICANT: Slesarev, Alexi I
; APPLICANT: Mezhevaya, Katja V
; APPLICANT: Polushin, Nikolai N
; APPLICANT: Shcherbina, Olga V
; APPLICANT: Shakhova, Vera V
; APPLICANT: Malikh, Andrei G
; APPLICANT: Kozvavkin, Sergei A
; TITLE OF INVENTION: The Complete Genome and Protein Sequences of the Hyperthermophilic
; TITLE OF INVENTION: Methanopyrus Kandleri AV19 and Monophyly of Archaeal Methanogens
; TITLE OF INVENTION: and Methods of Use Thereof
; FILE REFERENCE: FID001
; CURRENT APPLICATION NUMBER: US/10/506,454
; CURRENT FILING DATE: 2004-08-31
; PRIOR APPLICATION NUMBER: PCT/US03/06664
; PRIOR FILING DATE: 2003-03-04
; PRIOR APPLICATION NUMBER: 60/361,742
; PRIOR FILING DATE: 2002-03-04
; NUMBER OF SEQ ID NOS: 1722
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 901
; LENGTH: 591
; TYPE: PRT
; ORGANISM: Methanopyrus kandleri
US-10-506-454-901
```

```
Query Match 71.7%; Score 38; DB 9; Length 591;
Best Local Similarity 71.4%; Pred. No. 30;
Matches 5; Conservative 2; Mismatches 0; Indels 0; Gaps 0;
```

```
OY 1 YAVCDKC 7
Db 535 YSVCDRC 541
```

```
RESULT 19
US-10-530-253-21
; Sequence 21, Application US/10530253
```

```
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Cassecci, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhiney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 21
; LENGTH: 151
; TYPE: PRT
; ORGANISM: Human papillomavirus type 51
US-10-530-253-21
```

```
Query Match 69.8%; Score 37; DB 9; Length 151;
Best Local Similarity 75.0%; Pred. No. 14;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
```

```
OY 1 YAVCDKCL 8
Db 60 YAVCKOCL 67
```

```
RESULT 20
US-10-469-469-252
; Sequence 252, Application US/10469469
; Publication No. US20060079493A1
; GENERAL INFORMATION:
; APPLICANT: FRITZ, LAWRENCE C.
; APPLICANT: BURROWS, FRANCIS J.
; TITLE OF INVENTION: METHODS FOR TREATING GENETICALLY-DEFINED PROLIFERATIVE
; TITLE OF INVENTION: DISORDERS WITH HSP90 INHIBITORS
; FILE REFERENCE: CON-0010-USN
; CURRENT APPLICATION NUMBER: US/10/469,469
; CURRENT FILING DATE: 2003-08-27
; PRIOR APPLICATION NUMBER: PCT/US02/06518
; PRIOR FILING DATE: 2002-03-01
; PRIOR APPLICATION NUMBER: 60/272,751
; PRIOR FILING DATE: 2001-03-01
; NUMBER OF SEQ ID NOS: 330
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 252
; LENGTH: 2442
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-469-469-252
```

```
Query Match 69.8%; Score 37; DB 9; Length 2442;
Best Local Similarity 85.7%; Pred. No. 1.5e+02;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
OY 3 VCDKCLK 9
Db 1307 VCDNCLK 1313
```

```
RESULT 21
US-11-154-293-4
; Sequence 4, Application US/11154293
; Publication No. US20060084085A1
; GENERAL INFORMATION:
; APPLICANT: PRESIDENT AND FELLOWS OF HARVARD COLLEGE
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR MODULATING BAX-MEDIATED
; TITLE OF INVENTION: APOPTOSIS
; FILE REFERENCE: HMV-095.01
```

```

1 CURRENT APPLICATION NUMBER: US/11/154,293
2
3 CURRENT FILING DATE: 2005-06-16
4
5 PRIOR APPLICATION NUMBER: 60/580,169
6
7 PRIOR FILING DATE: 2004-06-16
8
9 NUMBER OF SEQ ID NOS: 58
10
11 SOFTWARE: PatentIn Ver. 3.3
12
13 SEQ ID NO 4
14
15     LENGTH: 2442
16
17     TYPE: prt
18
19     ORGANISM: Homo sapiens
20
21 US-11-154-293-4

```

Query Match	69.8%	Score 37	DB 11	Length 2442
Best Local Similarity	85.7%	Pred. No. 1.5e+02		
Matches	6	Conservative	0	Mismatches 1
			Indels	0
			Gaps	0

QY	3	VCDKCLK	9
Db	1307	VCDNCLK	1313

```

RESULT 22
US-11-264-096-2052
; Sequence 2052, Application US/11264096
; Publication No. US20060084794A1
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: Alblumin Fusion Proteins
; FILE REFERENCE: PFS66D1
; CURRENT APPLICATION NUMBER: US/11/264,096
; PRIOR FILING DATE: 2005-11-02
; PRIOR APPLICATION NUMBER: 09/833,245
; PRIOR FILING DATE: 2001-04-12
; PRIOR APPLICATION NUMBER: 60/229, 358
; PRIOR FILING DATE: 2000-04-12
; PRIOR APPLICATION NUMBER: 60/256, 931
; PRIOR FILING DATE: 2000-12-21
; PRIOR APPLICATION NUMBER: 60/139, 384
; PRIOR FILING DATE: 2000-04-25
; NUMBER OF SEQ ID NOS: 2267
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2052
; LENGTH: 286
; TYPE: prt
; ORGANISM: Homo sapiens
US-11-264-096-2052

```

Query Match	67.9%	Score 36;	DB 11,	Length 286;
Best Local Similarity	71.4%;	Pred. No. 35;		
Matches	5;	Conservative	2;	Mismatches 0;
			Indels	0;
			Gaps	0;

QY	2	AVCDKCL	8
		: :	
Db	144	SVCDKCI	150

```

RESULT 23
US-11-264-096-2051
: Sequence 2051, Application US/11264096
: Publication No. US20060084794A1
: GENERAL INFORMATION:
: APPLICANT: Rosen et al.
: TITLE OF INVENTION: Albumin Fusion Proteins
: FILE REFERENCE: P54601
: CURRENT APPLICATION NUMBER: US/11/264,096
: CURRENT FILING DATE: 2005-11-02
: PRIOR APPLICATION NUMBER: 09/833,245
: PRIOR FILING DATE: 2001-04-12
: PRIOR APPLICATION NUMBER: 60/229,358
: PRIOR FILING DATE: 2000-04-12
: PRIOR APPLICATION NUMBER: 60/256,931
: PRIOR FILING DATE: 2000-12-21
: PRIOR APPLICATION NUMBER: 60/199,384

```

; PRIOR FILING DATE: 2000-04-25
 ; NUMBER OF SEQ ID NOS: 267
 ; SOFTWARE: Patent In Ver. 2.1
 ; SEQ ID: NO 2051
 ; LENGTH: 298
 ; TYPE: prt
 ; ORGANISM: Homo sapiens
 US-11-264-096-2051

Query Match	67.9%	Score 36;	DB 11;	Length 298;
Best Local Similarity	71.4%	Pred. No. 37;		
Matches	5;	Conservative	0;	Indels 0; Gaps 0;
		Mismatches		

```
QY      2 AVCDKCL 8
        :|||||:
Db      144 SVCDKCI 150
```

```

RESULT 24
US-10-530-061-785
, Sequence 785, Application US/10530061
, Publication No. US20060079453A1
, GENERAL INFORMATION:
, APPLICANT: SIDNEY, JOHN
, APPLICANT: SUTHERWOOD, SCOTT
, APPLICANT: SETTE, ALBESSARDRO
, TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
, FILE REFERENCE: 2060.003US02/EKS/M-M
, CURRENT APPLICATION NUMBER: US/10/530,061
, CURRENT FILING DATE: 2005-04-04
, PRIOR APPLICATION NUMBER: PCT/US03/31308
, PRIOR FILING DATE: 2003-10-03
, PRIOR APPLICATION NUMBER: 60/416,207
, PRIOR FILING DATE: 2002-10-03
, PRIOR APPLICATION NUMBER: 60/417,269
, PRIOR FILING DATE: 2002-10-08
, NUMBER OF SEQ ID NOS: 2503
, SOFTWARE: PatentIn version 3.3
, SEQ ID NO 785
, LENGTH: 11
, TYPE: PRT
, ORGANISM: Human papillomavirus
US-10-530-061-785

```

Query Match	66.0%;	Score 35;	DB 9;	Length 11;
Best Local Similarity	62.5%;	Pred. No. 3.2;		
Matches	5;	Conservative	1;	Mismatches 2;
				Indels 0;
				Gaps 0;

QY	1	YAVCDKCL	8
			:
Db	2	YAACHKCI	9

RESULT 25
US-10-530-061-1656
Sequence 1656, Application US/10530061
Publication No. US20060079453A1
GENERAL INFORMATION:
APPLICANT: SIDNEY, JOHN
APPLICANT: SOUTHWOOD, SCOTT
APPLICANT: SETTE, ALESSANDRO
TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
FILE REFERENCE: 2060.03US02/EKS/M-M
CURRENT APPLICATION NUMBER: US/10/530, 061
CURRENT FILING DATE: 2005-04-04
PRIOR APPLICATION NUMBER: PCT/US03/31308
PRIOR FILING DATE: 2003-10-03
PRIOR APPLICATION NUMBER: 60/416,207
PRIOR FILING DATE: 2002-10-03
PRIOR APPLICATION NUMBER: 60/417,269
PRIOR FILING DATE: 2002-10-08
NUMBER OF SEQ ID NOS: 2503
SOFTWARE: PatentIn version 3.3

SEQ ID NO 1656
LENGTH: 15
TYPE: PRT
ORGANISM: Human papillomavirus
US-10-530-061-1656

Query Match 66.0%; Score 35; DB 9; Length 15;
Best Local Similarity 100.0%; Pred. No. 4.2;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 YAVCDK 6
| | | | |
Db 10 YAVCDK 15

RESULT 26
US-10-530-253-20
Sequence 20, Application US/10530253
Publication No. US20060014926A1
GENERAL INFORMATION:
APPLICANT: Cassecci, Maria C.
APPLICANT: Smith, Larry
APPLICANT: Jeffrey K. Pullen
APPLICANT: Susan P. McElhinney
TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
FILE REFERENCE: 00630/100W137-US2
CURRENT APPLICATION NUMBER: US/10/530,253
PRIOR FILING DATE: 2005-04-04
PRIOR APPLICATION NUMBER: PCT/US2003/031726
PRIOR FILING DATE: 2003-10-02
PRIOR APPLICATION NUMBER: US 60/415,929
PRIOR FILING DATE: 2002-10-03
NUMBER OF SEQ ID NOS: 65
SOFTWARE: PatentIn version 3.1
SEQ ID NO 20
LENGTH: 158
TYPE: PRT
ORGANISM: Human papillomavirus type 45
US-10-530-253-20

Query Match 66.0%; Score 35; DB 9; Length 158;
Best Local Similarity 62.5%; Pred. No. 32;
Matches 5; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 YAVCDKCL 8
| | | | |
Db 62 YAVCDKCI 69

RESULT 27
US-10-993-143-10
Sequence 10, Application US/10993143
Publication No. US20060036374A1
GENERAL INFORMATION:
APPLICANT: California Institute of Technology
APPLICANT: Debe, Derek A.
APPLICANT: Goddard III, William A.
TITLE OF INVENTION: METHOD FOR DETERMINING THREE-DIMENSIONAL PROTEIN STRUCTURE FROM
FILE REFERENCE: 54318, 8001, US02
CURRENT APPLICATION NUMBER: US/10/993,143
CURRENT FILING DATE: 2004-11-18
PRIOR APPLICATION NUMBER: 60/218,016
PRIOR FILING DATE: 2000-07-12
PRIOR APPLICATION NUMBER: 09/905,176
PRIOR FILING DATE: 2001-07-12
NUMBER OF SEQ ID NOS: 26
SOFTWARE: PatentIn version 3.3
SEQ ID NO 10
LENGTH: 328
TYPE: PRT
ORGANISM: Saccharomyces cerevisiae
US-10-993-143-10

Query Match 66.0%; Score 35; DB 9; Length 328;
Best Local Similarity 62.5%; Pred. No. 59;
Matches 5; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 YAVCDKCL 8
| | | | |
Db 115 YICDVCL 122

RESULT 28
US-11-096-568A-27572
Sequence 27572, Application US/11096568A
Publication No. US20060048240A1
GENERAL INFORMATION:
APPLICANT: Alexandrov, Nickolai et al.
TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
FILE REFERENCE: 2750-1592PUS2
CURRENT APPLICATION NUMBER: US/11/096,568A
CURRENT FILING DATE: 2005-04-01
NUMBER OF SEQ ID NOS: 34471
SEQ ID NO 27572
LENGTH: 559
TYPE: PRT
ORGANISM: Arabidopsis thaliana
FEATURE:
NAME/KEY: misc_feature
LOCATION: (1)..(559)
OTHER INFORMATION: Ceres Seq. ID no. 1820946
US-11-096-568A-27572

Query Match 66.0%; Score 35; DB 11; Length 559;
Best Local Similarity 100.0%; Pred. No. 93;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 YAVCDK 6
| | | | |
Db 81 YAVCDK 86

RESULT 29
US-11-154-293-8
Sequence 8, Application US/11154293
Publication No. US20060084085A1
GENERAL INFORMATION:
APPLICANT: PRESIDENT AND FELLOWS OF HARVARD COLLEGE
TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR MODULATING BAX-MEDIATED
FILE REFERENCE: HMV-095, 01
CURRENT APPLICATION NUMBER: US/11/154,293
CURRENT FILING DATE: 2005-06-16
PRIOR APPLICATION NUMBER: 60/580,169
PRIOR FILING DATE: 2004-06-16
NUMBER OF SEQ ID NOS: 58
SOFTWARE: PatentIn Ver. 3.3
SEQ ID NO 8
LENGTH: 2414
TYPE: PRT
ORGANISM: Homo sapiens
US-11-154-293-8

Query Match 66.0%; Score 35; DB 11; Length 2414;
Best Local Similarity 85.7%; Pred. No. 3.3e+02;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 3 VCDCKLK 9
| | | | |
Db 1271 VCDCKLK 1277

RESULT 30
US-11-096-568A-1034

; Sequence 1034, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
; APPLICANT: Alexandrov, Nikolai et al.
; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
; TITLE OF INVENTION: Thedy
; FILE REFERENCE: 2750-1592PUS2
; CURRENT APPLICATION NUMBER: US/11/096,568A
; CURRENT FILING DATE: 2005-04-01
; NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 1034
; LENGTH: 67
; TYPE: PRT
; ORGANISM: Zea mays subsp. mays
; FEATURES:
; NAME/KEY: misc feature
; LOCATION: (1)..(67)
; OTHER INFORMATION: Ceres Seq. ID no. 15218620
US-11-096-568A-1034

Query Match 64.2%; Score 34; DB 11; Length 67;
Best Local Similarity 83.3%; Pred. No. 23;
Matches 5; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 4 CDCKLK 9
|||
Db 37 CDCKLK 42

RESULT 31
US-11-096-568A-1033
; Sequence 1033, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
; APPLICANT: Alexandrov, Nikolai et al.
; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
; TITLE OF INVENTION: Thedy
; FILE REFERENCE: 2750-1592PUS2
; CURRENT APPLICATION NUMBER: US/11/096,568A
; CURRENT FILING DATE: 2005-04-01
; NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 1033
; LENGTH: 87
; TYPE: PRT
; ORGANISM: Zea mays subsp. mays
; FEATURES:
; NAME/KEY: misc feature
; LOCATION: (1)..(87)
; OTHER INFORMATION: Ceres Seq. ID no. 15218619
US-11-096-568A-1033

Query Match 64.2%; Score 34; DB 11; Length 87;
Best Local Similarity 83.3%; Pred. No. 28;
Matches 5; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 4 CDCKLK 9
|||
Db 57 CDCKLK 62

RESULT 32
US-10-530-253-16
; Sequence 16, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Cassetti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04

; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 16
; LENGTH: 149
; TYPE: PRT
; ORGANISM: Human papillomavirus type 31
US-10-530-253-16

Query Match 64.2%; Score 34; DB 9; Length 149;
Best Local Similarity 55.6%; Pred. No. 45;
Matches 5; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 1 YAVCDCKLK 9
:|||||
Db 60 HGVTCKLR 68

RESULT 33
US-11-096-568A-615
; Sequence 615, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
; APPLICANT: Alexandrov, Nikolai et al.
; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
; TITLE OF INVENTION: Thedy
; FILE REFERENCE: 2750-1592PUS2
; CURRENT APPLICATION NUMBER: US/11/096,568A
; CURRENT FILING DATE: 2005-04-01
; NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 615
; LENGTH: 217
; TYPE: PRT
; ORGANISM: Zea mays subsp. mays
; FEATURES:
; NAME/KEY: misc feature
; LOCATION: (1)..(217)
; OTHER INFORMATION: Ceres Seq. ID no. 12635573
US-11-096-568A-615

Query Match 64.2%; Score 34; DB 11; Length 217;
Best Local Similarity 75.0%; Pred. No. 62;
Matches 6; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2 AVCDCKLK 9
|||
Db 66 AKCDCKLK 73

RESULT 34
US-11-087-099-6089
; Sequence 6089, Application US/11087099
; Publication No. US20060041961A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: Genes and Uses for Plant Improvement
; FILE REFERENCE: 38-21(53450)B EP
; CURRENT APPLICATION NUMBER: US/11/087,099
; CURRENT FILING DATE: 2005-03-22
; NUMBER OF SEQ ID NOS: 12464
; SEQ ID NO 6089
; LENGTH: 298
; TYPE: PRT
; ORGANISM: Rhizobium tropici
US-11-087-099-6089

Query Match 64.2%; Score 34; DB 11; Length 298;
Best Local Similarity 66.7%; Pred. No. 81;
Matches 6; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 YAVCDKCLK 9
|||
Db 88 YAYGCKEK 96

RESULT 35

US-10-506-454-396
; Sequence 396, Application US/10506454
; Publication No. US2006068386A1
; GENERAL INFORMATION:
; APPLICANT: Slesarev, Alexi I
; APPLICANT: Mezhevaya, Kacja V
; APPLICANT: Polushina, Nikolai N
; APPLICANT: Shcherbina, Olga V
; APPLICANT: Shakhova, Vera V
; APPLICANT: Mal'kh, Andrei G
; APPLICANT: Kozavkin, Sergei A
; TITLE OF INVENTION: The Complete Genome and Protein Sequences of the Hyperthermophilic
; TITLE OF INVENTION: Methanopyrus Kandleri AV19 and Monophyly of Archaeal Methanogens
; TITLE OF INVENTION: and Methods of Use Thereof
; FILE REFERENCE: FID001
; CURRENT APPLICATION NUMBER: US/10/506,454
; CURRENT FILING DATE: 2004-08-31
; PRIOR APPLICATION NUMBER: PCT/US03/06664
; PRIOR FILING DATE: 2003-03-04
; PRIOR APPLICATION NUMBER: 60/361,742
; PRIOR FILING DATE: 2002-03-04
; NUMBER OF SEQ ID NOS: 1722
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 396
; LENGTH: 310
; TYPE: PRT
; ORGANISM: Methanopyrus kandleri
US-10-506-454-396

Query Match 64.2%; Score 34; DB 9; Length 310;
Best Local Similarity 85.7%; Pred. No. 84;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 YAVCDKC 7
|||
Db 141 YAVSDKC 147

RESULT 36

US-10-467-657-6970
; Sequence 6970, Application US/10467657
; Publication No. US20050260581A1
; GENERAL INFORMATION:
; APPLICANT: CHIRON SPA
; APPLICANT: FONTANA Maria Rita
; APPLICANT: PIZZA Mariagrazia
; APPLICANT: MASIGNANI Vega
; APPLICANT: MONACI Elisabetta
; TITLE OF INVENTION: GONOCOCCAL PROTEINS AND NUCLEIC ACIDS
; FILE REFERENCE:
; CURRENT APPLICATION NUMBER: US/10/467,657
; CURRENT FILING DATE: 2003-08-11
; PRIOR APPLICATION NUMBER: GB-0103424.8
; PRIOR FILING DATE: 2001-02-12
; NUMBER OF SEQ ID NOS: 9218
; SOFTWARE: SeqWin99, version 1.04
; SEQ ID NO 6970
; LENGTH: 358
; TYPE: PRT
; ORGANISM: Neisseria gonorrhoeae
US-10-467-657-6970

Query Match 64.2%; Score 34; DB 9; Length 358;
Best Local Similarity 66.7%; Pred. No. 94;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 YAVCDKCLK 9

Db 225 YAVCNQVLK 233
|||||

RESULT 37

US-11-087-099-9519
; Sequence 9519, Application US/11087099
; Publication No. US20060041961A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: Genes and Uses for Plant Improvement
; FILE REFERENCE: 38-21(53450)B EP
; CURRENT APPLICATION NUMBER: US/11/087,099
; CURRENT FILING DATE: 2005-03-22
; NUMBER OF SEQ ID NOS: 12464
; SEQ ID NO 9519
; LENGTH: 358
; TYPE: PRT
; ORGANISM: Cicer arietinum
US-11-087-099-9519

Query Match 64.2%; Score 34; DB 11; Length 358;
Best Local Similarity 71.4%; Pred. No. 94;
Matches 5; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 YAVCDKC 7
|||
Db 263 YRVCDSC 269

RESULT 38

US-11-087-099-7829
; Sequence 7829, Application US/11087099
; Publication No. US20060041961A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: Genes and Uses for Plant Improvement
; FILE REFERENCE: 38-21(53450)B EP
; CURRENT APPLICATION NUMBER: US/11/087,099
; CURRENT FILING DATE: 2005-03-22
; NUMBER OF SEQ ID NOS: 12464
; SEQ ID NO 7829
; LENGTH: 368
; TYPE: PRT
; ORGANISM: Rhizobium etli
US-11-087-099-7829

Query Match 64.2%; Score 34; DB 11; Length 368;
Best Local Similarity 66.7%; Pred. No. 97;
Matches 6; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 YAVCDKCLK 9
|||
Db 88 YAYGCKEK 96

RESULT 39

US-10-512-544-1
; Sequence 1, Application US/10512544
; Publication No. US20060051757A1
; GENERAL INFORMATION:
; APPLICANT: Evotec Neurosciences GmbH
; TITLE OF INVENTION: Diagnostic and therapeutic use of Ensadln-0477 gene and
; TITLE OF INVENTION: protein for neurodegenerative diseases
; FILE REFERENCE: 042378us ME/FM
; CURRENT APPLICATION NUMBER: US/10/512,544
; CURRENT FILING DATE: 2004-10-25
; PRIOR APPLICATION NUMBER: US 60/374,816
; PRIOR FILING DATE: 2002-04-24
; PRIOR APPLICATION NUMBER: EP 02009139.3
; PRIOR FILING DATE: 2002-04-24
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: PatentIn Ver. 2.1

```
; SEQ ID NO 1
; LENGTH: 937
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-512-544-1
```

```
Query Match      64.2%; Score 34; DB 9; Length 937;
Best Local Similarity 83.3%; Pred. No. 2.2e+02;
Matches 5; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
```

```
OY      4 CDKCLK 9
      |||||
Db      429 CDECLK 434
```

```
RESULT 40
US-10-922-232B-63
; Sequence 63, Application US/10922232B
; Publication No. US20060024668A1
; GENERAL INFORMATION:
; APPLICANT: van der Hoek, Cornelia
; TITLE OF INVENTION: Coronavirus, nucleic acid, protein, and methods for the generatio
; FILE REFERENCE: 294-226
; CURRENT APPLICATION NUMBER: US/10/922,232B
; PRIOR FILING DATE: 2004-08-18
; PRIOR APPLICATION NUMBER: US 60/535,002
; PRIOR FILING DATE: 2003-08-18
; PRIOR APPLICATION NUMBER: EP 03077602.5
; PRIOR FILING DATE: 2003-08-18
; PRIOR APPLICATION NUMBER: EP 04075050.7
; NUMBER OF SEQ ID NOS: 66
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 63
; LENGTH: 1356
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic sequence. Spike protein/S-gene.
US-10-922-232B-63
```

```
Query Match      64.2%; Score 34; DB 9; Length 1356;
Best Local Similarity 71.4%; Pred. No. 2.9e+02;
Matches 5; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
```

```
OY      1 YAVCDKC 7
      |||||
Db      204 YTVCDCC 210
```

```
RESULT 41
US-11-091-936-1
; Sequence 1, Application US/11091936
; Publication No. US20060052941A1
; GENERAL INFORMATION:
; APPLICANT: Darst, Seth A
; APPLICANT: Zhang, Gongyi
; APPLICANT: Campbell, Elizabeth
; APPLICANT: Minakiri, Leonid
; APPLICANT: Severinov, Konstantin
; TITLE OF INVENTION: A CRYSTAL OF BACTERIAL CORE RNA POLYMERASE AND METHODS
; TITLE OF INVENTION: OF USE THEREOF
; FILE REFERENCE: 600-1-258
; CURRENT APPLICATION NUMBER: US/11/091,936
; PRIOR FILING DATE: 2005-03-28
; PRIOR APPLICATION NUMBER: US/09/396,651
; PRIOR FILING DATE: 1999-09-15
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1
; LENGTH: 1525
; TYPE: PRT
```

```
; ORGANISM: Thermus aquaticus
; FEATURE:
; NAME/KEY: SITE
; LOCATION: (1247)
; OTHER INFORMATION: Any amino acid can be at this position
US-11-091-936-1
```

```
Query Match      64.2%; Score 34; DB 11; Length 1525;
Best Local Similarity 71.4%; Pred. No. 3.3e+02;
Matches 5; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
```

```
OY      1 YAVCDKC 7
      |||||
Db      1199 YGVCCKC 1205
```

```
RESULT 42
US-10-530-061-822
; Sequence 822, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SETH, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.033US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; PRIOR FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 822
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Human Papillomavirus
US-10-530-061-822
```

```
Query Match      62.3%; Score 33; DB 9; Length 9;
Best Local Similarity 71.4%; Pred. No. 1.9e+05;
Matches 5; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
```

```
OY      1 YAVCDKC 7
      |||||
Db      2 YACCHKC 8
```

```
RESULT 43
US-10-530-061-70
; Sequence 70, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SETH, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.033US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; PRIOR FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 70
; LENGTH: 10
```

```
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-70
```

```
Query Match      62.3%; Score 33; DB 9; Length 10;
Best Local Similarity 75.0%; Pred. No. 6.6;
Matches 6; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
```

```
OY      1 YAVCDKCL 8
        |||||
Db       2 YAVCRVCL 9
```

```
RESULT 44
US-10-530-061-795
; Sequence 795, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
```

```
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.033US02/EKS/M-M
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: Patentin version 3.3
; SEQ ID NO 795
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-795
```

```
Query Match      62.3%; Score 33; DB 9; Length 10;
Best Local Similarity 75.0%; Pred. No. 6.6;
Matches 6; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
```

```
OY      1 YAVCDKCL 8
        |||||
Db       2 YAVCRVCL 9
```

RESULT 45

```
US-10-530-061-788
; Sequence 788, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.033US02/EKS/M-M
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: Patentin version 3.3
; SEQ ID NO 788
; LENGTH: 11
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-788
```

```
Query Match      62.3%; Score 33; DB 9; Length 11;
Best Local Similarity 75.0%; Pred. No. 7.1;
Matches 6; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
```

```
OY      1 YAVCDKCL 8
        |||||
Db       2 YAVCRVCL 9
```

```
RESULT 46
US-11-079-463-6834
; Sequence 6834, Application US/11079463
; Publication No. US20060073161A1
; GENERAL INFORMATION:
```

```
; APPLICANT: Gary L. Breton
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO BACTERIOIDES FRAC
; FILE REFERENCE: PAT00-03DIV2
; CURRENT FILING DATE: 2005-03-14
; PRIOR APPLICATION NUMBER: US 60/128,705
; PRIOR FILING DATE: 1999-04-09
; PRIOR APPLICATION NUMBER: US 09/540,209
; PRIOR FILING DATE: 2000-04-04
; NUMBER OF SEQ ID NOS: 10444
; SEQ ID NO 6834
; LENGTH: 81
; TYPE: PRT
; ORGANISM: B.fragilis
US-11-079-463-6834
```

```
Query Match      62.3%; Score 33; DB 11; Length 81;
Best Local Similarity 71.4%; Pred. No. 39;
Matches 5; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
```

```
OY      1 YAVCDKC 7
        |||||
Db       26 YAVCPQC 32
```

```
RESULT 47
US-11-096-568A-15475
; Sequence 15475, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
; APPLICANT: Alexandrov, Nikolai et al.
; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
; FILE REFERENCE: 2750-1592PUS2
; CURRENT FILING DATE: 2005-04-01
; NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 15475
; LENGTH: 132
; TYPE: PRT
; ORGANISM: Zea mays subsp. mays
; FEATURES:
; NAME/KEY: misc_feature
; LOCATION: (1)..(132)
; OTHER INFORMATION: Ceres Seq. ID no. 12345170
US-11-096-568A-15475
```

```
Query Match      62.3%; Score 33; DB 11; Length 132;
Best Local Similarity 83.3%; Pred. No. 60;
Matches 5; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
```

```
OY      2 AYCDKC 7
        |||||
Db       2 AYCDKC 7
```

RESULT 48


```
US-11-096-568A-15474
; Sequence 15474, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
; APPLICANT: Alexandrov, Nickolai et al.
; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
; FILE REFERENCE: 2750-1592PUS2
; CURRENT APPLICATION NUMBER: US/11/096,568A
; CURRENT FILING DATE: 2005-04-01
; NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 15474
; LENGTH: 139
; TYPE: PRT
; ORGANISM: Zea mays subsp. mays
; FEATURES:
; NAME/KEY: misc feature
; LOCATION: (1)..(139)
; OTHER INFORMATION: Ceres Seq. ID no. 12345169
US-11-096-568A-15474
```

```
Query Match      62.3%; Score 33; DB 11; Length 139;
Best Local Similarity 83.3%; Pred. No. 62;
Matches 5; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      2  AVCDKC 7
      |||||
Db      9  AVCDKC 14
```

```
RESULT 49
US-10-530-253-23
; Sequence 23, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Cassetti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
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US-10-530-253-23
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; Sequence 7500, Application US/11079463
; Publication No. US20060073161A1
; GENERAL INFORMATION:
; APPLICANT: Gary L. Breton
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO BACTERIOIDES FR
; FILE REFERENCE: PATH00-03DIV2
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; CURRENT APPLICATION NUMBER: US/11/079,463
; CURRENT FILING DATE: 2005-03-14
; PRIOR APPLICATION NUMBER: US 60/128,705
; PRIOR FILING DATE: 1999-04-09
; PRIOR APPLICATION NUMBER: US 09/540,209
; PRIOR FILING DATE: 2000-04-04
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OM protein - protein search, using sw model

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Perfect score: 52
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Scoring table: BLOSUM62
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Searched: 572060 seqs, 82675679 residues
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Post-processing: Minimum Match 0%
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Listing first 1000 summaries

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Pred. No. is the number of results predicted by chance to have a
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SUMMARIES

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289	31	59.6	247	2	US-10-104-047-1998	Sequence 1998, Ap	362	31	59.6	1111	2	US-08-800-593-15	Sequence 15, Appl
290	31	59.6	248	2	US-09-270-767-44243	Sequence 44243, A	363	31	59.6	1111	2	US-09-756-071B-15	Sequence 15, Appl
291	31	59.6	248	2	US-09-270-767-62355	Sequence 62355, A	364	31	59.6	1112	2	US-09-560-385A-26	Sequence 26, Appl
292	31	59.6	290	2	US-09-231-182B-2	Sequence 2, Appl	365	31	59.6	1172	2	US-09-560-385A-32	Sequence 32, Appl
293	31	59.6	295	2	US-09-543-681A-4711	Sequence 4711, Ap	366	31	59.6	1187	2	US-09-068-740A-7	Sequence 7, Appl
294	31	59.6	334	2	US-10-104-047-3440	Sequence 2440, Ap	367	31	59.6	1193	1	US-08-317-450B-13	Sequence 13, Appl
295	31	59.6	343	2	US-09-922-501-15	Sequence 83, Appl	368	31	59.6	1193	1	US-08-400-159-10	Sequence 10, Appl
296	31	59.6	374	2	US-09-690-454-83	Sequence 83, Appl	369	31	59.6	1193	2	US-08-611-129A-10	Sequence 10, Appl
297	31	59.6	385	1	US-08-597-145-1	Sequence 1, Appl	370	31	59.6	1193	2	US-08-800-593-13	Sequence 13, Appl
298	31	59.6	385	1	US-08-457-135-1	Sequence 1, Appl	371	31	59.6	1193	2	US-08-800-593-13	Sequence 13, Appl
299	31	59.6	385	2	US-09-142-027A-10	Sequence 10, Appl	372	31	59.6	1193	2	US-09-560-385A-30	Sequence 30, Appl
300	31	59.6	403	2	US-09-470-526-2	Sequence 2, Appl	373	31	59.6	1193	2	US-09-560-385A-30	Sequence 30, Appl
301	31	59.6	406	2	US-10-104-047-3010	Sequence 3010, Ap	374	31	59.6	1193	2	US-09-195-524-10	Sequence 10, Appl
302	31	59.6	426	2	US-09-602-777A-70	Sequence 72, Appl	375	31	59.6	1193	2	US-09-310-685-8	Sequence 8, Appl
303	31	59.6	426	2	US-09-602-777A-72	Sequence 72, Appl	376	31	59.6	1193	2	US-10-053-662A-31	Sequence 31, Appl
304	31	59.6	482	2	US-09-949-016-9106	Sequence 9106, Ap	377	31	59.6	1208	2	US-09-756-071B-13	Sequence 13, Appl
305	31	59.6	498	2	US-10-104-047-3548	Sequence 2548, Ap	378	31	59.6	1208	2	US-09-199-865-1	Sequence 1, Appl
306	31	59.6	525	2	US-09-470-526-9	Sequence 9, Appl	379	31	59.6	1208	2	US-10-213-329-1	Sequence 6, Appl
307	31	59.6	530	2	US-09-328-352-7333	Sequence 7333, Ap	380	31	59.6	1218	1	US-08-611-129A-6	Sequence 6, Appl
308	31	59.6	648	2	US-09-538-092-536	Sequence 536, App	381	31	59.6	1218	2	US-08-882-046-2	Sequence 2, Appl
309	31	59.6	678	2	US-09-270-767-44599	Sequence 44599, A	382	31	59.6	1218	2	US-09-882-046-2	Sequence 2, Appl
310	31	59.6	703	2	US-09-252-991A-17865	Sequence 17865, A	383	31	59.6	1218	2	US-09-214-378-7	Sequence 7, Appl
311	31	59.6	733	2	US-09-270-767-14626	Sequence 41626, A	384	31	59.6	1218	2	US-09-068-740A-11	Sequence 11, Appl
312	31	59.6	750	2	US-09-487-558B-280	Sequence 280, App	385	31	59.6	1218	2	US-09-855-722-7	Sequence 7, Appl
313	31	59.6	773	2	US-09-913-301-5	Sequence 5, Appl	386	31	59.6	1218	2	US-09-566-047-2	Sequence 2, Appl
314	31	59.6	789	1	US-08-431-080-20	Sequence 20, Appl	387	31	59.6	1218	2	US-09-917-254-85	Sequence 85, Appl
315	31	59.6	789	1	US-08-938-534-20	Sequence 20, Appl	388	31	59.6	1218	2	US-09-195-524-6	Sequence 6, Appl
316	31	59.6	789	2	US-09-345-294-20	Sequence 20, Appl	389	31	59.6	1218	2	US-09-579-536C-1	Sequence 1, Appl
317	31	59.6	801	2	US-09-913-301-7	Sequence 7, Appl	390	31	59.6	1218	2	US-09-579-536C-1	Sequence 5902, Ap
318	31	59.6	804	2	US-09-913-301-2	Sequence 2, Appl	391	31	59.6	1218	2	US-09-310-685-4	Sequence 4, Appl
319	31	59.6	805	2	US-09-538-092-257	Sequence 257, App	392	31	59.6	1219	2	US-08-882-046-5	Sequence 5, Appl

393	31	59.6	1219	2	US-09-566-047-5	Sequence 5, Appl1	466	30	57.7	88	2	US-09-950-933A-74	Sequence 74, Appl1
394	31	59.6	1240	2	US-10-101-464A-976	Sequence 976, App	467	30	57.7	106	2	US-10-232-858-78	Sequence 78, Appl1
395	31	59.6	1254	2	US-09-949-016-10297	Sequence 10297, A	468	30	57.7	106	2	US-09-338-063A-78	Sequence 78, Appl1
396	31	59.6	1350	2	US-09-952-060-35	Sequence 35, Appl1	469	30	57.7	139	2	US-08-706-945D-130	Sequence 130, App
397	31	59.6	1399	2	US-09-388-221B-4	Sequence 4, Appl1	470	30	57.7	141	2	US-09-270-767-31758	Sequence 31758, A
398	31	59.6	1424	2	US-09-388-221B-12	Sequence 12, Appl1	471	30	57.7	141	2	US-09-270-767-46975	Sequence 46975, A
399	31	59.6	1429	2	US-10-029-347-3	Sequence 3, Appl1	472	30	57.7	143	2	US-10-232-858-77	Sequence 77, Appl1
400	31	59.6	1429	2	US-10-029-347-26	Sequence 26, Appl1	473	30	57.7	143	2	US-09-338-063A-77	Sequence 77, Appl1
401	31	59.6	1429	2	US-10-183-770A-3	Sequence 3, Appl1	474	30	57.7	144	2	US-09-949-016-11102	Sequence 11102, A
402	31	59.6	1429	2	US-10-183-770A-15	Sequence 15, Appl1	475	30	57.7	145	2	US-10-232-858-15	Sequence 15, Appl1
403	31	59.6	1429	2	US-09-996-617-2	Sequence 2, Appl1	476	30	57.7	145	2	US-09-338-063A-15	Sequence 15, Appl1
404	31	59.6	1443	2	US-09-388-221B-6	Sequence 6, Appl1	477	30	57.7	147	2	US-09-527-236A-20	Sequence 20, Appl1
405	31	59.6	1454	2	US-09-388-221B-10	Sequence 10, Appl1	478	30	57.7	147	2	US-09-756-854-20	Sequence 20, Appl1
406	31	59.6	1473	2	US-09-388-221B-2	Sequence 2, Appl1	479	30	57.7	147	2	US-09-590-547-5	Sequence 5, Appl1
407	31	59.6	1587	2	US-09-845-583A-10	Sequence 10, Appl1	480	30	57.7	147	2	US-09-095-094-20	Sequence 20, Appl1
408	31	59.6	1587	2	US-09-845-583A-10	Sequence 10, Appl1	481	30	57.7	147	2	US-10-232-858-13	Sequence 13, Appl1
409	31	59.6	2289	2	US-09-051-019-2	Sequence 2, Appl1	482	30	57.7	154	2	US-09-338-063A-13	Sequence 13, Appl1
410	31	59.6	3177	1	US-08-477-451-4	Sequence 4, Appl1	483	30	57.7	154	2	US-09-902-540-11918	Sequence 11918, A
411	31	59.6	3635	2	US-09-845-583A-2	Sequence 2, Appl1	484	30	57.7	155	2	US-09-270-767-43152	Sequence 43152, A
412	31	59.6	3635	2	US-10-037-417-47	Sequence 47, Appl1	485	30	57.7	156	2	US-09-422-680A-24	Sequence 24, Appl1
413	31	59.6	3635	2	US-10-037-417-47	Sequence 47, Appl1	486	30	57.7	158	2	US-09-270-767-57547	Sequence 57547, A
414	30	57.7	9	2	US-08-159-339A-136	Sequence 136, App	487	30	57.7	160	2	US-09-632-277A-3	Sequence 3, Appl1
415	30	57.7	17	1	US-08-077-256-2	Sequence 2, Appl1	488	30	57.7	161	2	US-09-477-493-3	Sequence 3, Appl1
416	30	57.7	17	1	US-08-259-672-2	Sequence 2, Appl1	489	30	57.7	166	2	US-08-788-070-4	Sequence 4, Appl1
417	30	57.7	17	1	US-08-459-351-2	Sequence 2, Appl1	490	30	57.7	166	2	US-09-155-252A-4	Sequence 4, Appl1
418	30	57.7	17	1	US-08-460-533-2	Sequence 2, Appl1	491	30	57.7	166	2	US-08-465-375-4	Sequence 4, Appl1
419	30	57.7	17	1	PCT-US94-08654-2	Sequence 2, Appl1	492	30	57.7	169	2	US-09-482-271-231	Sequence 231, App
420	30	57.7	19	2	US-08-974-022-40	Sequence 40, Appl1	493	30	57.7	170	2	US-09-270-767-41181	Sequence 41781, A
421	30	57.7	19	2	US-08-795-445A-40	Sequence 40, Appl1	494	30	57.7	174	2	US-08-706-945D-136	Sequence 136, App
422	30	57.7	19	2	US-08-974-186-40	Sequence 40, Appl1	495	30	57.7	174	2	US-09-270-767-59391	Sequence 59391, A
423	30	57.7	19	2	US-08-974-186-40	Sequence 40, Appl1	496	30	57.7	180	2	US-09-107-533A-5901	Sequence 5901, Ap
424	30	57.7	19	2	US-08-795-446B-40	Sequence 40, Appl1	497	30	57.7	180	2	US-09-949-016-6478	Sequence 6478, Ap
425	30	57.7	19	2	US-08-706-945D-62	Sequence 62, Appl1	498	30	57.7	180	2	US-09-482-271-231	Sequence 231, App
426	30	57.7	22	2	US-08-577-788C-40	Sequence 40, Appl1	499	30	57.7	184	2	US-09-482-271-231	Sequence 231, App
427	30	57.7	22	2	US-09-623-548A-1505	Sequence 1505, Ap	500	30	57.7	185	2	US-09-482-271-150	Sequence 190, App
428	30	57.7	22	2	US-09-657-276-1505	Sequence 1505, Ap	501	30	57.7	186	2	US-09-328-355-4267	Sequence 4267, Ap
429	30	57.7	25	2	US-08-620-151-72	Sequence 72, Appl1	502	30	57.7	187	2	US-10-232-858-81	Sequence 81, Appl1
430	30	57.7	26	1	US-08-331-394-16	Sequence 16, Appl1	503	30	57.7	187	2	US-09-338-063A-81	Sequence 81, Appl1
431	30	57.7	26	1	US-08-250-858-16	Sequence 16, Appl1	504	30	57.7	197	2	US-10-232-858-76	Sequence 14453, A
432	30	57.7	26	1	US-08-446-915-16	Sequence 16, Appl1	505	30	57.7	197	2	US-09-338-063A-76	Sequence 76, Appl1
433	30	57.7	26	1	US-08-744-139-16	Sequence 16, Appl1	506	30	57.7	197	2	US-09-248-796A-14467	Sequence 14467, A
434	30	57.7	26	2	US-09-253-396A-213	Sequence 213, App	507	30	57.7	208	2	US-08-577-788C-50	Sequence 50, Appl1
435	30	57.7	26	2	US-08-779-599-16	Sequence 16, Appl1	508	30	57.7	217	2	US-09-270-767-45127	Sequence 45127, A
436	30	57.7	26	4	PCT-US95-06639-16	Sequence 16, Appl1	509	30	57.7	218	2	US-09-324-258-20	Sequence 20, Appl1
437	30	57.7	27	2	US-09-270-767-60621	Sequence 60621, A	510	30	57.7	223	2	US-09-270-767-38098	Sequence 38098, A
438	30	57.7	37	2	US-09-732-210-507	Sequence 507, App	511	30	57.7	223	2	US-08-152-019A-33	Sequence 53315, A
439	30	57.7	37	2	US-09-732-210-512	Sequence 512, App	512	30	57.7	225	2	US-09-133-321-2	Sequence 3, Appl1
440	30	57.7	38	2	US-09-732-210-993	Sequence 993, App	513	30	57.7	226	2	US-10-176-88A-18	Sequence 18, Appl1
441	30	57.7	47	2	US-08-706-945D-143	Sequence 143, App	514	30	57.7	226	2	US-09-324-258-20	Sequence 20, Appl1
442	30	57.7	48	2	US-08-974-022-43	Sequence 43, Appl1	515	30	57.7	231	2	US-09-163-507-1	Sequence 1, Appl1
443	30	57.7	48	2	US-08-795-445A-43	Sequence 43, Appl1	516	30	57.7	244	2	US-09-163-507-2	Sequence 2, Appl1
444	30	57.7	48	2	US-08-795-447A-43	Sequence 43, Appl1	517	30	57.7	244	2	US-09-163-507-2	Sequence 3, Appl1
445	30	57.7	48	2	US-08-974-186-43	Sequence 43, Appl1	518	30	57.7	250	2	US-09-718-032-4	Sequence 4, Appl1
446	30	57.7	48	2	US-08-795-446B-43	Sequence 43, Appl1	519	30	57.7	260	2	US-09-538-092-365	Sequence 365, App
447	30	57.7	48	2	US-08-577-788C-43	Sequence 43, Appl1	520	30	57.7	262	2	US-09-134-000C-6521	Sequence 6521, Ap
448	30	57.7	51	2	US-09-270-767-34590	Sequence 34590, A	521	30	57.7	264	2	US-09-270-767-43984	Sequence 43984, A
449	30	57.7	51	2	US-09-270-767-49907	Sequence 49907, A	522	30	57.7	268	2	US-08-852-743-3	Sequence 3, Appl1
450	30	57.7	68	2	US-09-107-532A-6888	Sequence 6888, Ap	523	30	57.7	268	2	US-09-185-370-3	Sequence 3, Appl1
451	30	57.7	68	2	US-09-270-767-61430	Sequence 61430, A	524	30	57.7	269	1	US-08-460-309-14	Sequence 14, Appl1
452	30	57.7	70	2	US-08-974-022-41	Sequence 41, Appl1	525	30	57.7	269	1	US-08-125-077-14	Sequence 14, Appl1
453	30	57.7	70	2	US-08-795-445A-41	Sequence 41, Appl1	526	30	57.7	269	1	US-09-896-096A-18	Sequence 18, Appl1
454	30	57.7	70	2	US-08-974-186-41	Sequence 41, Appl1	527	30	57.7	272	2	US-10-232-858-75	Sequence 75, Appl1
455	30	57.7	70	2	US-08-795-446B-41	Sequence 41, Appl1	528	30	57.7	272	2	US-09-338-063A-75	Sequence 75, Appl1
456	30	57.7	70	2	US-08-974-186-41	Sequence 41, Appl1	529	30	57.7	274	2	US-09-248-796A-20527	Sequence 20527, A
457	30	57.7	70	2	US-08-706-945D-119	Sequence 119, App	530	30	57.7	288	2	US-09-949-016-6385	Sequence 6385, Ap
458	30	57.7	73	2	US-08-577-788C-41	Sequence 41, Appl1	531	30	57.7	291	2	US-09-482-271-129	Sequence 129, App
459	30	57.7	73	2	US-09-513-999C-7636	Sequence 7636, Ap	532	30	57.7	293	2	US-09-896-096A-18	Sequence 18, Appl1
460	30	57.7	77	2	US-08-061-376-11	Sequence 11, Appl1	533	30	57.7	297	2	US-09-949-016-7791	Sequence 7791, Ap
461	30	57.7	81	1	US-08-812-003-2	Sequence 2, Appl1	534	30	57.7	299	1	US-09-047-026A-24	Sequence 24, Appl1
462	30	57.7	84	2	US-10-232-858-82	Sequence 82, Appl1	535	30	57.7	304	2	US-09-765-818-10	Sequence 10, Appl1
463	30	57.7	84	2	US-09-338-063A-82	Sequence 82, Appl1	536	30	57.7	305	2	US-09-047-026A-25	Sequence 25, Appl1
464	30	57.7	88	2	US-09-950-933A-56	Sequence 56, Appl1	537	30	57.7	310	1	US-09-047-026A-25	Sequence 25, Appl1
465	30	57.7	88	2	US-09-950-933A-57	Sequence 57, Appl1	538	30	57.7	316	2	US-09-270-767-43670	Sequence 42670, A

539	30	57.7	321	2	US-10-232-858-80	Sequence 80, Appl	612	30	57.7	401	2	US-08-577-788C-4	Sequence 4, Appl
540	30	57.7	321	2	US-09-338-063A-80	Sequence 80, Appl	613	30	57.7	401	2	US-08-577-788C-5	Sequence 5, Appl
541	30	57.7	324	2	US-09-270-767-45894	Sequence 45894, A	614	30	57.7	401	2	US-08-577-788C-54	Sequence 54, Appl
542	30	57.7	326	2	US-09-949-016-8980	Sequence 8980, Ap	615	30	57.7	401	2	US-08-577-788C-55	Sequence 55, Appl
543	30	57.7	326	2	US-10-232-858-71	Sequence 71, Appl	616	30	57.7	401	2	US-08-577-788C-56	Sequence 56, Appl
544	30	57.7	326	2	US-09-338-063A-71	Sequence 71, Appl	617	30	57.7	401	2	US-09-064-832-2	Sequence 2, Appl
545	30	57.7	327	2	US-10-232-858-72	Sequence 72, Appl	618	30	57.7	401	2	US-10-232-858-5	Sequence 5, Appl
546	30	57.7	327	2	US-09-338-063A-72	Sequence 72, Appl	619	30	57.7	401	2	US-10-232-858-62	Sequence 62, Appl
547	30	57.7	328	2	US-09-270-767-58019	Sequence 58019, A	620	30	57.7	401	2	US-10-232-858-63	Sequence 63, Appl
548	30	57.7	329	1	US-08-739-485-3	Sequence 3, Appl	621	30	57.7	401	2	US-10-232-858-65	Sequence 65, Appl
549	30	57.7	330	2	US-09-248-796A-19977	Sequence 19977, A	622	30	57.7	401	2	US-10-232-858-66	Sequence 66, Appl
550	30	57.7	333	2	US-09-107-532A-7050	Sequence 7050, Ap	623	30	57.7	401	2	US-09-338-063A-5	Sequence 5, Appl
551	30	57.7	338	1	US-09-047-026A-2	Sequence 2, Appl	624	30	57.7	401	2	US-09-338-063A-62	Sequence 62, Appl
552	30	57.7	342	2	US-08-840-713-4	Sequence 4, Appl	625	30	57.7	401	2	US-09-338-063A-63	Sequence 63, Appl
553	30	57.7	342	2	US-09-270-767-45955	Sequence 45955, A	626	30	57.7	401	2	US-09-338-063A-64	Sequence 64, Appl
554	30	57.7	348	1	US-08-118-270-13	Sequence 13, Appl	627	30	57.7	401	2	US-09-338-063A-65	Sequence 65, Appl
555	30	57.7	348	4	PCT-US93-08528-13	Sequence 13, Appl	628	30	57.7	401	2	US-09-338-063A-66	Sequence 66, Appl
556	30	57.7	350	2	US-09-270-767-42267	Sequence 42267, A	629	30	57.7	421	2	US-08-840-713-6	Sequence 6, Appl
557	30	57.7	351	2	US-10-232-858-74	Sequence 74, Appl	630	30	57.7	421	2	US-09-902-540-13248	Sequence 13248, A
558	30	57.7	351	2	US-09-338-063A-74	Sequence 74, Appl	631	30	57.7	440	2	US-09-538-092-446	Sequence 446, App
559	30	57.7	359	2	US-09-248-796A-19596	Sequence 19596, A	632	30	57.7	440	2	US-09-538-092-446	Sequence 1356, Ap
560	30	57.7	359	2	US-10-232-858-68	Sequence 68, Appl	633	30	57.7	459	1	US-09-538-092-1356	Sequence 4, Appl
561	30	57.7	359	2	US-10-232-858-70	Sequence 70, Appl	634	30	57.7	459	1	US-08-870-518-4	Sequence 4, Appl
562	30	57.7	359	2	US-09-338-063A-68	Sequence 68, Appl	635	30	57.7	465	1	US-08-114-555A-2	Sequence 2, Appl
563	30	57.7	359	2	US-09-338-063A-70	Sequence 70, Appl	636	30	57.7	465	1	US-08-559-397A-2	Sequence 2, Appl
564	30	57.7	362	2	US-10-232-858-11	Sequence 11, Appl	637	30	57.7	475	2	US-10-087-167-129	Sequence 129, App
565	30	57.7	362	2	US-09-338-063A-11	Sequence 11, Appl	638	30	57.7	481	1	US-08-933-150C-17	Sequence 17, Appl
566	30	57.7	363	2	US-09-482-273-830	Sequence 230, App	639	30	57.7	488	2	US-09-234-613-17	Sequence 17, Appl
567	30	57.7	363	2	US-10-232-858-69	Sequence 69, Appl	640	30	57.7	489	2	US-09-134-000C-5481	Sequence 39, Appl
568	30	57.7	363	2	US-09-338-063A-69	Sequence 69, Appl	641	30	57.7	497	2	US-09-107-532A-5279	Sequence 5279, Ap
569	30	57.7	364	2	US-08-706-945D-141	Sequence 141, App	642	30	57.7	506	1	US-08-369-780-2	Sequence 2, Appl
570	30	57.7	364	2	US-08-706-945D-142	Sequence 142, App	643	30	57.7	506	1	US-08-475-682-2	Sequence 2, Appl
571	30	57.7	364	2	US-09-198-452A-423	Sequence 423, App	644	30	57.7	506	1	US-08-780-833-2	Sequence 2, Appl
572	30	57.7	364	2	US-09-438-185A-406	Sequence 406, App	645	30	57.7	506	1	US-08-636-036-2	Sequence 2, Appl
573	30	57.7	364	2	US-09-999-833A-515	Sequence 515, App	646	30	57.7	506	2	US-08-918-509-2	Sequence 2, Appl
574	30	57.7	364	2	US-10-020-445A-515	Sequence 515, App	647	30	57.7	506	2	US-09-108-262-2	Sequence 2, Appl
575	30	57.7	376	1	US-08-846-762-12	Sequence 12, Appl	648	30	57.7	506	2	US-09-688-188B-94	Sequence 94, Appl
576	30	57.7	380	2	US-09-338-063A-4	Sequence 4, Appl	649	30	57.7	524	2	US-09-291-117D-94	Sequence 94, Appl
577	30	57.7	383	2	US-09-252-991A-28656	Sequence 28656, A	650	30	57.7	524	2	US-08-615-942A-2	Sequence 2, Appl
578	30	57.7	386	2	US-09-949-016-11378	Sequence 11378, A	651	30	57.7	524	2	US-09-237-325-2	Sequence 2, Appl
579	30	57.7	386	2	US-09-949-016-11378	Sequence 106, App	652	30	57.7	524	2	US-09-408-020-10	Sequence 10, Appl
580	30	57.7	391	2	US-10-232-858-106	Sequence 106, App	653	30	57.7	524	2	US-09-538-092-1301	Sequence 1301, Ap
581	30	57.7	393	2	US-09-338-063A-106	Sequence 79, Appl	654	30	57.7	530	2	US-08-840-713-2	Sequence 2, Appl
582	30	57.7	393	2	US-10-232-858-79	Sequence 79, Appl	655	30	57.7	532	2	US-09-826-509-521	Sequence 2, Appl
583	30	57.7	393	2	US-09-338-063A-79	Sequence 9, Appl	656	30	57.7	533	2	US-09-826-509-521	Sequence 6, Appl
584	30	57.7	394	2	US-10-232-858-9	Sequence 9, Appl	657	30	57.7	544	1	US-09-508-370A-6	Sequence 19, Appl
585	30	57.7	394	2	US-09-338-063A-9	Sequence 18959, A	658	30	57.7	544	1	US-08-559-397A-19	Sequence 30, Appl
586	30	57.7	396	2	US-09-252-991A-18959	Sequence 73, Appl	659	30	57.7	544	2	US-08-559-397A-30	Sequence 95, Appl
587	30	57.7	399	2	US-10-232-858-73	Sequence 73, Appl	660	30	57.7	544	2	US-09-688-188B-95	Sequence 95, Appl
588	30	57.7	399	2	US-09-338-063A-73	Sequence 2, Appl	661	30	57.7	544	2	US-09-291-417D-95	Sequence 4, Appl
589	30	57.7	401	2	US-08-974-022-2	Sequence 4, Appl	662	30	57.7	544	2	US-09-949-016-10951	Sequence 10951, A
590	30	57.7	401	2	US-08-974-022-4	Sequence 6, Appl	663	30	57.7	544	2	US-09-949-016-11562	Sequence 11562, A
591	30	57.7	401	2	US-08-974-022-6	Sequence 6, Appl	664	30	57.7	545	1	US-08-935-760-4	Sequence 4, Appl
592	30	57.7	401	2	US-09-042-785A-12	Sequence 12, Appl	665	30	57.7	545	2	US-09-688-188B-93	Sequence 93, Appl
593	30	57.7	401	2	US-09-042-785A-13	Sequence 13, Appl	666	30	57.7	545	2	US-09-291-417D-93	Sequence 93, Appl
594	30	57.7	401	2	US-08-795-445A-2	Sequence 2, Appl	667	30	57.7	545	2	US-09-538-092-1297	Sequence 1297, Ap
595	30	57.7	401	2	US-08-795-445A-4	Sequence 4, Appl	668	30	57.7	546	2	US-09-902-540-15239	Sequence 15239, A
596	30	57.7	401	2	US-08-795-445A-6	Sequence 6, Appl	669	30	57.7	551	2	US-09-949-016-10951	Sequence 10951, A
597	30	57.7	401	2	US-08-795-447A-2	Sequence 2, Appl	670	30	57.7	551	2	US-10-087-167-105	Sequence 105, App
598	30	57.7	401	2	US-08-795-447A-4	Sequence 4, Appl	671	30	57.7	553	2	US-10-087-167-125	Sequence 125, App
599	30	57.7	401	2	US-08-795-447A-6	Sequence 6, Appl	672	30	57.7	553	2	US-10-087-167-125	Sequence 125, App
600	30	57.7	401	2	US-08-974-186-2	Sequence 2, Appl	673	30	57.7	558	2	US-10-087-167-121	Sequence 121, App
601	30	57.7	401	2	US-08-974-186-4	Sequence 4, Appl	674	30	57.7	558	2	US-10-087-167-123	Sequence 20, Appl
602	30	57.7	401	2	US-08-974-186-6	Sequence 6, Appl	675	30	57.7	591	1	US-08-468-249A-20	Sequence 119, App
603	30	57.7	401	2	US-08-795-446B-2	Sequence 2, Appl	676	30	57.7	591	2	US-10-087-167-119	Sequence 119, App
604	30	57.7	401	2	US-08-795-446B-4	Sequence 4, Appl	677	30	57.7	593	2	US-10-087-167-127	Sequence 127, App
605	30	57.7	401	2	US-08-795-446B-6	Sequence 6, Appl	678	30	57.7	599	2	US-10-087-167-148	Sequence 148, App
606	30	57.7	401	2	US-09-153-927-1	Sequence 1, Appl	679	30	57.7	599	2	US-10-087-167-143	Sequence 143, App
607	30	57.7	401	2	US-09-072-993C-1	Sequence 1, Appl	680	30	57.7	602	2	US-08-840-713-35	Sequence 35, Appl
608	30	57.7	401	2	US-08-706-945D-124	Sequence 124, App	681	30	57.7	615	2	US-10-087-167-135	Sequence 135, App
609	30	57.7	401	2	US-08-706-945D-126	Sequence 126, App	682	30	57.7	615	2	US-09-388-743-14	Sequence 14, Appl
610	30	57.7	401	2	US-08-706-945D-128	Sequence 128, App	683	30	57.7	616	2	US-10-044-543-14	Sequence 14, Appl
611	30	57.7	401	2	US-08-577-788C-2	Sequence 2, Appl	684	30	57.7	616	2	US-10-044-543-14	Sequence 14, Appl

685	30	57.7	617	2	US-08-840-713-37	Sequence 37, Appl	758	30	57.7	1765	2	US-10-037-182-8	Sequence 8, Appl1
686	30	57.7	620	2	US-10-087-167-137	Sequence 137, Appl	759	30	57.7	1786	2	US-09-562-702A-14	Sequence 14, Appl
687	30	57.7	630	2	US-09-252-991A-31264	Sequence 31264, A	760	30	57.7	1786	2	US-09-562-702A-18	Sequence 18, Appl
688	30	57.7	634	2	US-10-164-595-69	Sequence 69, Appl	761	30	57.7	1786	2	US-09-561-818A-14	Sequence 14, Appl
689	30	57.7	639	2	US-09-248-796A-17567	Sequence 17567, A	762	30	57.7	1786	2	US-09-561-818A-18	Sequence 18, Appl
690	30	57.7	658	2	US-08-953-040-9	Sequence 9, Appl1	763	30	57.7	1786	2	US-09-561-709B-9	Sequence 9, Appl1
691	30	57.7	661	2	US-09-352-879A-25690	Sequence 25690, A	764	30	57.7	1786	2	US-09-538-029-869	Sequence 869, App
692	30	57.7	710	2	US-09-248-796A-14136	Sequence 14136, A	765	30	57.7	1786	2	US-10-037-182-6	Sequence 6, Appl1
693	30	57.7	717	2	US-08-872-855-9	Sequence 9, Appl1	766	30	57.7	1786	2	US-10-037-182-10	Sequence 10, Appl
694	30	57.7	721	2	US-09-949-016-11031	Sequence 11031, A	767	30	57.7	1792	2	US-09-561-818A-4	Sequence 4, Appl1
695	30	57.7	725	2	US-10-164-595-30	Sequence 30, Appl	768	30	57.7	1798	2	US-09-561-818A-12	Sequence 12, Appl
696	30	57.7	768	1	US-08-454-455-4	Sequence 4, Appl1	769	30	57.7	1798	2	US-09-845-583A-8	Sequence 8, Appl1
697	30	57.7	803	2	US-09-063-035-2	Sequence 2, Appl1	770	30	57.7	1798	2	US-09-561-709B-11	Sequence 11, Appl
698	30	57.7	867	2	US-10-104-047-3052	Sequence 3052, Ap	771	30	57.7	1799	2	US-09-917-254-87	Sequence 87, Appl
699	30	57.7	881	1	US-08-333-901-1	Sequence 1, Appl1	772	30	57.7	1799	2	US-09-845-582A-6	Sequence 6, Appl1
700	30	57.7	881	1	US-08-456-582-1	Sequence 1, Appl1	773	30	57.7	1800	2	US-09-561-818A-8	Sequence 8, Appl1
701	30	57.7	881	1	US-08-898-789-1	Sequence 1, Appl1	774	30	57.7	1816	2	US-09-561-818A-2	Sequence 2, Appl1
702	30	57.7	881	1	US-09-039-555B-16	Sequence 16, Appl	775	30	57.7	1824	2	US-09-561-818A-10	Sequence 10, Appl
703	30	57.7	881	2	US-09-324-258-7	Sequence 7, Appl1	776	30	57.7	1854	2	US-09-949-016-11625	Sequence 6, Appl1
704	30	57.7	906	2	US-09-863-901-6	Sequence 6, Appl1	777	30	57.7	1854	2	US-09-949-016-11625	Sequence 11625, A
705	30	57.7	906	2	US-10-307-389-6	Sequence 6, Appl1	778	30	57.7	2004	2	US-09-538-092-1271	Sequence 1371, Ap
706	30	57.7	930	2	US-08-953-040-2	Sequence 2, Appl1	779	30	57.7	2004	2	US-09-949-016-6756	Sequence 6756, Ap
707	30	57.7	930	2	US-09-583-110-3208	Sequence 3208, Ap	780	30	57.7	2079	2	US-09-949-016-8301	Sequence 8301, Ap
708	30	57.7	939	2	US-09-107-433-4543	Sequence 4543, Ap	781	30	57.7	2205	1	US-08-093-453B-2	Sequence 2, Appl1
709	30	57.7	944	2	US-09-449-285A-2	Sequence 2, Appl1	782	30	57.7	2268	1	US-08-198-446B-15	Sequence 15, Appl
710	30	57.7	944	2	US-09-964-238-2	Sequence 2, Appl1	783	30	57.7	2368	1	US-08-870-693-15	Sequence 15, Appl
711	30	57.7	962	2	US-09-248-796A-19159	Sequence 19159, A	784	30	57.7	2368	1	US-10-037-182-36	Sequence 36, Appl
712	30	57.7	962	2	US-09-949-016-7768	Sequence 7768, A	785	30	57.7	3447	2	US-09-949-016-10932	Sequence 10932, A
713	30	57.7	1059	2	US-09-134-513-2	Sequence 2, Appl1	786	30	57.7	3695	2	US-10-037-182-2	Sequence 2, Appl1
714	30	57.7	1059	2	US-09-134-000C-5600	Sequence 5600, Ap	787	30	57.7	3695	2	US-08-061-376-5	Sequence 5, Appl1
715	30	57.7	1077	2	US-10-104-047-2291	Sequence 2291, Ap	788	30	57.7	3699	2	US-09-538-092-1262	Sequence 1262, Ap
716	30	57.7	1079	1	US-08-485-588-8	Sequence 8, Appl1	789	30	55.8	3669	4	US-10-216-556A-52	Sequence 52, Appl
717	30	57.7	1079	1	US-08-484-565-8	Sequence 8, Appl1	790	29	55.8	14	2	US-09-254-776B-67	Sequence 67, Appl
718	30	57.7	1079	1	US-08-480-751-8	Sequence 8, Appl1	791	29	55.8	15	2	US-10-120-508-15	Sequence 15, Appl
719	30	57.7	1079	1	US-08-943-986-8	Sequence 8, Appl1	792	29	55.8	16	1	US-08-036-555B-17	Sequence 17, Appl
720	30	57.7	1079	2	US-08-353-784-8	Sequence 8, Appl1	793	29	55.8	16	1	US-08-036-555B-127	Sequence 127, Appl
721	30	57.7	1079	2	US-08-484-719B-8	Sequence 8, Appl1	794	29	55.8	16	1	US-08-469-565-17	Sequence 17, Appl
722	30	57.7	1079	2	US-08-484-159-8	Sequence 8, Appl1	795	29	55.8	16	1	US-08-469-569-127	Sequence 127, App
723	30	57.7	1085	1	US-08-485-588-5	Sequence 5, Appl1	796	29	55.8	16	1	US-08-249-322A-127	Sequence 127, App
724	30	57.7	1085	1	US-08-484-565-5	Sequence 5, Appl1	797	29	55.8	16	1	US-08-469-566-17	Sequence 17, App
725	30	57.7	1085	1	US-08-480-751-5	Sequence 5, Appl1	798	29	55.8	16	1	US-08-469-526A-17	Sequence 17, Appl
726	30	57.7	1085	1	US-08-943-986-5	Sequence 5, Appl1	799	29	55.8	16	1	US-08-469-526A-127	Sequence 127, App
727	30	57.7	1085	2	US-08-353-784-5	Sequence 5, Appl1	800	29	55.8	16	1	US-08-734-591A-17	Sequence 17, Appl
728	30	57.7	1085	2	US-08-484-719B-5	Sequence 5, Appl1	801	29	55.8	16	1	US-08-734-591A-127	Sequence 127, App
729	30	57.7	1085	2	US-08-484-159-5	Sequence 5, Appl1	802	29	55.8	16	1	US-08-469-660-17	Sequence 17, Appl
730	30	57.7	1101	2	US-09-561-709B-5	Sequence 5, Appl1	803	29	55.8	16	1	US-08-469-660-127	Sequence 127, App
731	30	57.7	1104	2	US-10-104-047-2506	Sequence 2506, Ap	804	29	55.8	16	2	US-08-470-335-17	Sequence 17, Appl
732	30	57.7	1106	2	US-09-949-016-9626	Sequence 9626, Ap	805	29	55.8	16	2	US-08-470-335-127	Sequence 127, App
733	30	57.7	1125	2	US-09-949-016-10194	Sequence 10194, A	806	29	55.8	16	2	US-08-735-021-127	Sequence 127, App
734	30	57.7	1180	2	US-10-053-662A-2	Sequence 2, Appl1	807	29	55.8	16	2	US-08-735-021-127	Sequence 127, App
735	30	57.7	1186	1	US-08-144-121-4	Sequence 4, Appl1	808	29	55.8	16	2	US-08-734-664A-17	Sequence 17, Appl
736	30	57.7	1196	1	US-08-735-893-4	Sequence 4, Appl1	809	29	55.8	16	2	US-08-734-664A-127	Sequence 127, App
737	30	57.7	1196	2	US-10-841-139-4	Sequence 4, Appl1	810	29	55.8	16	2	US-08-470-339-17	Sequence 17, Appl
738	30	57.7	1214	2	US-09-949-016-6885	Sequence 6885, Ap	811	29	55.8	16	2	US-08-470-339-127	Sequence 127, App
739	30	57.7	1215	2	US-09-134-001C-5319	Sequence 5319, Ap	812	29	55.8	16	2	US-08-467-602-127	Sequence 127, App
740	30	57.7	1218	2	US-09-198-452A-98	Sequence 98, Appl	813	29	55.8	16	2	US-08-467-602-127	Sequence 127, App
741	30	57.7	1224	2	US-09-107-532A-6220	Sequence 6220, Ap	814	29	55.8	16	4	PCT-US94-05083C-17	Sequence 17, Appl
742	30	57.7	1225	2	US-09-583-110-3637	Sequence 3637, Ap	815	29	55.8	16	4	PCT-US94-05083C-123	Sequence 123, App
743	30	57.7	1239	2	US-09-107-433-4267	Sequence 4267, Ap	816	29	55.8	16	4	PCT-US95-06846A-17	Sequence 17, Appl
744	30	57.7	1318	2	US-09-949-016-7130	Sequence 7130, Ap	817	29	55.8	16	4	PCT-US95-06846A-127	Sequence 127, App
745	30	57.7	1342	2	US-09-561-709B-13	Sequence 13, Appl	818	29	55.8	19	1	US-08-466-033-79	Sequence 79, Appl
746	30	57.7	1400	2	US-08-080-255-7	Sequence 7, Appl1	819	29	55.8	19	1	US-08-444-733-79	Sequence 79, Appl
747	30	57.7	1400	1	US-08-465-713-7	Sequence 7, Appl1	820	29	55.8	19	1	US-08-464-134-79	Sequence 79, Appl
748	30	57.7	1400	4	PCT-US93-05857-7	Sequence 7, Appl1	821	29	55.8	19	1	US-08-461-361-79	Sequence 79, Appl
749	30	57.7	1410	2	US-09-438-185A-84	Sequence 84, Appl	822	29	55.8	19	1	US-08-485-910-79	Sequence 79, Appl
750	30	57.7	1428	2	US-09-964-956-33	Sequence 33, Appl	823	29	55.8	19	4	PCT-US95-06266-63	Sequence 63, Appl
751	30	57.7	1551	2	US-09-949-016-6785	Sequence 6785, Ap	824	29	55.8	26	1	US-08-620-151-7	Sequence 7, Appl1
752	30	57.7	1725	2	US-09-562-702A-20	Sequence 20, Appl	825	29	55.8	26	1	US-08-620-151-101	Sequence 101, App
753	30	57.7	1725	2	US-09-561-818A-20	Sequence 20, Appl	826	29	55.8	28	1	US-08-616-857-3	Sequence 3, Appl1
754	30	57.7	1725	2	US-10-037-182-12	Sequence 12, Appl	827	29	55.8	34	2	US-09-661-711A-29	Sequence 29, Appl
755	30	57.7	1761	2	US-09-561-709B-1	Sequence 1, Appl1	828	29	55.8	34	2	US-10-012-811-6	Sequence 6, Appl1
756	30	57.7	1765	2	US-09-562-702A-16	Sequence 16, Appl	829	29	55.8	36	1	US-08-466-033-71	Sequence 71, Appl
757	30	57.7	1765	2	US-09-561-818A-16	Sequence 16, Appl	830	29	55.8	36	1	US-08-466-033-77	Sequence 77, Appl

831	29	55.8	36	1	US-08-444-733-71	Sequence 71, Appl	904	29	55.8	147	2	US-09-095-094-19	Sequence 19, Appl
832	29	55.8	36	1	US-08-444-733-77	Sequence 77, Appl	905	29	55.8	149	1	US-08-319-590-25	Sequence 25, Appl
833	29	55.8	36	1	US-08-464-134-71	Sequence 71, Appl	906	29	55.8	149	1	US-08-487-001A-75	Sequence 25, Appl
834	29	55.8	36	1	US-08-464-134-77	Sequence 77, Appl	907	29	55.8	149	1	US-08-630-822A-25	Sequence 25, Appl
835	29	55.8	36	1	US-08-461-361-71	Sequence 71, Appl	908	29	55.8	149	1	US-08-711-905-25	Sequence 25, Appl
836	29	55.8	36	1	US-08-461-361-77	Sequence 77, Appl	909	29	55.8	149	1	US-09-005-069-25	Sequence 25, Appl
837	29	55.8	36	1	US-08-485-910-71	Sequence 71, Appl	910	29	55.8	150	2	US-09-134-001C-4722	Sequence 4722, Ap
838	29	55.8	36	1	US-08-485-910-77	Sequence 77, Appl	911	29	55.8	150	2	US-09-710-279-338	Sequence 328, Ap
839	29	55.8	36	4	PCT-US95-06266-55	Sequence 55, Appl	912	29	55.8	154	2	US-09-902-540-12436	Sequence 12436, A
840	29	55.8	36	4	PCT-US95-06266-61	Sequence 61, Appl	913	29	55.8	155	1	US-08-487-001A-35	Sequence 35, Appl
841	29	55.8	43	2	US-09-131-750-24	Sequence 24, Appl	914	29	55.8	155	1	US-08-630-822A-35	Sequence 35, Appl
842	29	55.8	44	1	US-08-466-033-73	Sequence 73, Appl	915	29	55.8	155	1	US-09-005-069-35	Sequence 35, Appl
843	29	55.8	44	1	US-08-444-733-73	Sequence 73, Appl	916	29	55.8	155	2	US-09-171-156A-62	Sequence 62, Appl
844	29	55.8	44	1	US-08-464-134-73	Sequence 73, Appl	917	29	55.8	155	2	US-08-981-799A-62	Sequence 62, Appl
845	29	55.8	44	1	US-08-461-361-73	Sequence 73, Appl	918	29	55.8	155	2	US-09-605-703B-2002	Sequence 2002, Ap
846	29	55.8	44	1	US-08-485-910-73	Sequence 73, Appl	919	29	55.8	155	2	US-09-270-767-40706	Sequence 40706, A
847	29	55.8	44	4	PCT-US95-06266-57	Sequence 57, Appl	920	29	55.8	157	2	US-09-270-767-55922	Sequence 55922, A
848	29	55.8	56	1	US-08-466-033-81	Sequence 81, Appl	921	29	55.8	158	1	US-08-319-590-26	Sequence 26, Appl
849	29	55.8	56	1	US-08-444-733-81	Sequence 81, Appl	922	29	55.8	158	1	US-08-487-001A-26	Sequence 26, Appl
850	29	55.8	56	1	US-08-464-134-81	Sequence 81, Appl	923	29	55.8	158	1	US-08-630-822A-26	Sequence 26, Appl
851	29	55.8	56	1	US-08-461-361-81	Sequence 81, Appl	924	29	55.8	158	1	US-08-711-905-26	Sequence 26, Appl
852	29	55.8	56	1	US-08-485-910-81	Sequence 81, Appl	925	29	55.8	158	1	US-09-005-069-26	Sequence 26, Appl
853	29	55.8	56	2	US-09-732-210-912	Sequence 912, Appl	926	29	55.8	158	1	US-09-005-069-26	Sequence 26, Appl
854	29	55.8	56	4	PCT-US94-06655-3	Sequence 3, Appl	927	29	55.8	159	2	US-09-270-767-36156	Sequence 36156, A
855	29	55.8	56	4	PCT-US95-06266-65	Sequence 65, Appl	928	29	55.8	159	2	US-09-851-873-69	Sequence 69, Appl
856	29	55.8	60	2	US-09-248-796A-21998	Sequence 21998, A	929	29	55.8	166	2	US-09-489-039A-13010	Sequence 13010, A
857	29	55.8	60	2	US-09-248-796A-24962	Sequence 24962, A	930	29	55.8	170	2	US-09-851-873-41	Sequence 41, Appl
858	29	55.8	60	2	US-09-248-796A-27279	Sequence 27279, A	931	29	55.8	177	2	US-09-851-873-31	Sequence 31, Appl
859	29	55.8	63	2	US-09-732-210-104	Sequence 104, Appl	932	29	55.8	178	2	US-09-270-767-53756	Sequence 53756, A
860	29	55.8	63	2	US-09-513-999C-5197	Sequence 5197, Ap	933	29	55.8	180	2	US-09-342-325C-56	Sequence 56, Appl
861	29	55.8	70	2	US-09-732-210-883	Sequence 883, Appl	934	29	55.8	180	2	US-10-244-367-56	Sequence 56, Appl
862	29	55.8	71	2	US-09-248-796A-21236	Sequence 21236, A	935	29	55.8	182	2	US-09-270-767-43121	Sequence 43121, A
863	29	55.8	72	2	US-09-107-433-3855	Sequence 3855, Ap	936	29	55.8	182	2	US-09-270-767-31979	Sequence 31979, A
864	29	55.8	75	2	US-09-252-991A-29195	Sequence 29195, A	937	29	55.8	184	2	US-09-270-767-42471	Sequence 42471, A
865	29	55.8	86	1	US-08-466-033-75	Sequence 75, Appl	938	29	55.8	184	2	US-09-270-767-47196	Sequence 47196, A
866	29	55.8	86	1	US-08-444-733-75	Sequence 75, Appl	939	29	55.8	192	1	US-07-949-812-3	Sequence 3, Appl
867	29	55.8	86	1	US-08-464-134-75	Sequence 75, Appl	940	29	55.8	198	2	US-09-981-087A-25	Sequence 25, Appl
868	29	55.8	86	1	US-08-461-361-75	Sequence 75, Appl	941	29	55.8	198	2	US-09-978-382A-25	Sequence 25, Appl
869	29	55.8	86	1	US-08-485-910-75	Sequence 75, Appl	942	29	55.8	198	2	US-09-978-740A-25	Sequence 25, Appl
870	29	55.8	86	4	PCT-US95-06266-59	Sequence 59, Appl	943	29	55.8	198	2	US-09-978-729A-25	Sequence 25, Appl
871	29	55.8	88	2	US-09-270-767-34558	Sequence 34558, A	944	29	55.8	198	2	US-09-978-730-25	Sequence 25, Appl
872	29	55.8	88	2	US-09-270-767-49775	Sequence 49775, A	945	29	55.8	201	2	US-09-322-478-10	Sequence 10, Appl
873	29	55.8	89	2	US-09-732-210-942	Sequence 942, Appl	946	29	55.8	201	2	US-09-586-1060-10	Sequence 10, Appl
874	29	55.8	89	2	US-09-270-767-43290	Sequence 3290, A	947	29	55.8	206	2	US-10-799-870-10	Sequence 10, Appl
875	29	55.8	93	2	US-09-270-767-48507	Sequence 48507, A	948	29	55.8	206	2	US-09-270-767-49759	Sequence 49759, A
876	29	55.8	93	2	US-09-513-999C-7374	Sequence 7374, Ap	949	29	55.8	212	2	US-09-902-540-15826	Sequence 15826, A
877	29	55.8	98	2	US-09-270-767-39471	Sequence 39471, A	950	29	55.8	212	2	US-09-270-767-43641	Sequence 43641, A
878	29	55.8	98	2	US-09-270-767-54688	Sequence 54688, A	951	29	55.8	221	1	US-09-949-812-2	Sequence 2, Appl
879	29	55.8	102	2	US-09-314-844F-6	Sequence 6, Appl	952	29	55.8	221	1	US-08-616-857-4	Sequence 4, Appl
880	29	55.8	107	2	US-09-270-767-37048	Sequence 37048, A	953	29	55.8	224	4	US-09-252-991A-25249	Sequence 25249, A
881	29	55.8	107	2	US-09-270-767-52265	Sequence 52265, A	954	29	55.8	224	4	US-09-546-013-22	Sequence 22, Appl
882	29	55.8	108	2	US-09-950-933A-92	Sequence 92, Appl	955	29	55.8	224	4	US-09-851-873-57	Sequence 57, Appl
883	29	55.8	109	2	US-09-248-796A-18639	Sequence 18639, A	956	29	55.8	227	2	US-09-949-016-9088	Sequence 9088, Ap
884	29	55.8	111	2	US-09-270-767-57766	Sequence 57766, A	957	29	55.8	227	2	US-09-949-016-9088	Sequence 9088, Ap
885	29	55.8	114	2	US-09-621-976-5197	Sequence 5197, Ap	958	29	55.8	227	2	US-09-270-767-41232	Sequence 41232, A
886	29	55.8	118	2	US-09-248-796A-19729	Sequence 19729, A	959	29	55.8	227	2	US-09-270-767-41232	Sequence 41232, A
887	29	55.8	119	2	US-09-270-767-39748	Sequence 39748, A	960	29	55.8	227	2	US-09-270-767-41232	Sequence 41232, A
888	29	55.8	119	2	US-09-270-767-54965	Sequence 54965, A	961	29	55.8	227	2	US-09-270-767-54965	Sequence 54965, A
889	29	55.8	121	2	US-09-717-321A-28	Sequence 28, Appl	962	29	55.8	227	2	US-09-270-767-54965	Sequence 54965, A
890	29	55.8	121	2	US-09-717-321A-29	Sequence 29, Appl	963	29	55.8	227	2	US-09-270-767-54965	Sequence 54965, A
891	29	55.8	124	2	US-09-851-873-2	Sequence 2, Appl	964	29	55.8	227	2	US-09-270-767-54965	Sequence 54965, A
892	29	55.8	124	2	US-09-851-873-6	Sequence 6, Appl	965	29	55.8	227	2	US-09-270-767-54965	Sequence 54965, A
893	29	55.8	125	2	US-08-959-382-4	Sequence 4, Appl	966	29	55.8	227	2	US-09-270-767-54965	Sequence 54965, A
894	29	55.8	125	2	US-09-314-844F-4	Sequence 4, Appl	967	29	55.8	227	2	US-09-270-767-54965	Sequence 54965, A
895	29	55.8	132	2	US-09-513-999C-6410	Sequence 6410, Ap	968	29	55.8	244	2	US-09-489-847-143	Sequence 143, Ap
896	29	55.8	133	2	US-09-513-999C-5846	Sequence 5846, Ap	969	29	55.8	244	2	US-09-135-782-4	Sequence 782-4, A
897	29	55.8	141	2	US-09-248-796A-19288	Sequence 19288, A	970	29	55.8	244	2	US-09-193-191-4	Sequence 191-4, A
898	29	55.8	142	2	US-09-902-540-13555	Sequence 13555, A	971	29	55.8	247	1	US-09-648-796A-2	Sequence 2, Appl
899	29	55.8	146	2	US-09-523-323-58	Sequence 58, Appl	972	29	55.8	247	1	US-09-675-305-6	Sequence 6, Appl
900	29	55.8	146	2	US-09-248-796A-23467	Sequence 23467, A	973	29	55.8	247	2	US-09-489-039A-11251	Sequence 11251, A
901	29	55.8	147	2	US-09-527-216A-19	Sequence 19, Appl	974	29	55.8	247	2	US-10-200-344-6	Sequence 6, Appl
902	29	55.8	147	2	US-09-736-854-19	Sequence 19, Appl	975	29	55.8	247	2	US-10-104-047-2014	Sequence 2014, Ap
903	29	55.8	147	2	US-10-041-574-19	Sequence 19, Appl	976	29	55.8	253	2	US-09-042-785A-4	Sequence 4, Appl

977 29 55.8 254 2 US-09-270-767-33738 Sequence 33738, A
978 29 55.8 254 2 US-09-270-767-48955 Sequence 48955, A
979 29 55.8 254 2 US-09-422-680A-6 Sequence 6, Appl1
980 29 55.8 255 2 US-09-152-060-96 Sequence 96, Appl1
981 29 55.8 255 2 US-09-852-797-96 Sequence 96, Appl1
982 29 55.8 255 2 US-09-853-161-96 Sequence 96, Appl1
983 29 55.8 255 2 US-10-058-993-96 Sequence 96, Appl1
984 29 55.8 261 2 US-09-851-873-55 Sequence 55, Appl1
985 29 55.8 266 2 US-09-248-796A-17346 Sequence 17346, A
986 29 55.8 266 2 US-09-248-796A-18212 Sequence 18212, A
987 29 55.8 266 2 US-10-104-047-3891 Sequence 3891, Ap
988 29 55.8 270 2 US-09-248-796A-18267 Sequence 18267, A
989 29 55.8 271 1 US-08-152-019A-28 Sequence 28, Appl1
990 29 55.8 272 2 US-09-270-767-31963 Sequence 31963, A
991 29 55.8 272 2 US-09-270-767-47180 Sequence 47180, A
992 29 55.8 277 2 US-09-851-873-8 Sequence 8, Appl1
993 29 55.8 278 1 US-08-460-309-13 Sequence 13, Appl1
994 29 55.8 278 1 US-08-125-077-13 Sequence 7, Appl1
995 29 55.8 279 1 US-08-152-019A-29 Sequence 29, Appl1
996 29 55.8 281 2 US-08-652-877-7 Sequence 7, Appl1
997 29 55.8 281 2 US-08-476-515A-7 Sequence 7, Appl1
998 29 55.8 290 2 US-09-422-680A-2 Sequence 2, Appl1
999 29 55.8 290 2 US-09-422-680A-8 Sequence 8, Appl1
1000 29 55.8 292 2 US-09-270-767-60842 Sequence 60842, A

ALIGNMENTS

RESULT 1
US-08-159-339A-561
Sequence 561, Application US/08159339A
Patent No. 6037135
GENERAL INFORMATION:
APPLICANT: Kubo, Ralph T.
APPLICANT: Grey, Howard M.
APPLICANT: Sette, Alessandro
APPLICANT: Celis, Etseban
TITLE OF INVENTION: HLA Binding peptides and Their
TITLE OF INVENTION: Uses
NUMBER OF SEQUENCES: 1254
CORRESPONDENCE ADDRESS:
ADDRESSEE: Townsend and Townsend and Crew LLP
STREET: Two Embarcadero Center, Eighth Floor
CITY: San Francisco
STATE: CA
COUNTRY: USA
ZIP: 94111-3834
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FASTSEQ for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/159,339A
FILING DATE: 29-NOV-1993
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/926,666
FILING DATE: 07-AUG-1992
APPLICATION NUMBER: US 08/027,746
FILING DATE: 05-MAR-1993
APPLICATION NUMBER: US 08/103,396
FILING DATE: 06-AUG-1993
ATTORNEY/AGENT INFORMATION:
NAME: Weber, Ellen Lauver
REGISTRATION NUMBER: 32,762
REFERENCE/DOCKET NUMBER: 018623-005030US
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 576-0200
TELEFAX: (415) 576-0300
TELEX:
INFORMATION FOR SEQ ID NO: 561:

SEQUENCE CHARACTERISTICS:
LENGTH: 10 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-08-159-339A-561

Query Match 100.0%; Score 52; DB 2; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.027;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AVCDKCLKF 9
Db 1 AVCDKCLKF 9

RESULT 2
US-08-159-339A-1170
Sequence 1170, Application US/08159339A
Patent No. 6037135

GENERAL INFORMATION:
APPLICANT: Kubo, Ralph T.
APPLICANT: Grey, Howard M.
APPLICANT: Sette, Alessandro
APPLICANT: Celis, Etseban
TITLE OF INVENTION: HLA Binding peptides and Their
TITLE OF INVENTION: Uses
NUMBER OF SEQUENCES: 1254
CORRESPONDENCE ADDRESS:
ADDRESSEE: Townsend and Townsend and Crew LLP
STREET: Two Embarcadero Center, Eighth Floor
CITY: San Francisco
STATE: CA
COUNTRY: USA
ZIP: 94111-3834
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FASTSEQ for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/159,339A
FILING DATE: 29-NOV-1993
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/926,666
FILING DATE: 07-AUG-1992
APPLICATION NUMBER: US 08/027,746
FILING DATE: 05-MAR-1993
APPLICATION NUMBER: US 08/103,396
FILING DATE: 06-AUG-1993
ATTORNEY/AGENT INFORMATION:
NAME: Weber, Ellen Lauver
REGISTRATION NUMBER: 32,762
REFERENCE/DOCKET NUMBER: 018623-005030US
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 576-0200
TELEFAX: (415) 576-0300
TELEX:

INFORMATION FOR SEQ ID NO: 1170:
SEQUENCE CHARACTERISTICS:
LENGTH: 11 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-08-159-339A-1170

Query Match 100.0%; Score 52; DB 2; Length 11;
Best Local Similarity 100.0%; Pred. No. 0.03;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AVCDKCLKF 9
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Db 3 AVCDKCLKF 11

RESULT 3
US-10-612-818-4
; Sequence 4, Application US/10612818
; Patent No. 6931123
; GENERAL INFORMATION:
; APPLICANT: Impact Diagnostics
; TITLE OF INVENTION: Peptides from the E2, E6 and E7 proteins of Human Papillomavirus
; TITLE OF INVENTION: 18 for Detecting and/or Diagnosing Cervical and Other Human Papi
; FILE REFERENCE: 3352-2-2
; CURRENT APPLICATION NUMBER: US/10/612,818
; PRIOR FILING DATE: 2003-07-01
; PRIOR APPLICATION NUMBER: US 60/394,172
; PRIOR FILING DATE: 2002-07-02
; PRIOR APPLICATION NUMBER: US 09/828,645
; PRIOR FILING DATE: 2001-04-05
; NUMBER OF SEQ ID NOS: 8
; SOFTWARE: Patentin version 3.1
; SEQ ID NO 4
; LENGTH: 22
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Derived from the E6 early coding region of HPV 16
US-10-612-818-4

Query Match 100.0%; Score 52; DB 2; Length 22;
Best Local Similarity 100.0%; Pred. No. 0.056;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AVCDKCLKF 9
| | | | |
Db 7 AVCDKCLKF 15

RESULT 4
US-09-701-080C-18
; Sequence 18, Application US/09701080C
; Patent No. 6864054
; GENERAL INFORMATION:
; APPLICANT: INSTITUTE OF MOLECULAR AND CELL BIOLOGY
; TITLE OF INVENTION: POLYPEPTIDES FROM CREB BINDING PROTEIN AND RELATED PROTEIN P300 F
; FILE REFERENCE: N73477C GCM
; CURRENT APPLICATION NUMBER: US/09/701,080C
; CURRENT FILING DATE: 2001-02-27
; PRIOR APPLICATION NUMBER: GB 9811303.8
; PRIOR FILING DATE: 1998-05-26
; PRIOR APPLICATION NUMBER: GB 9900157.0
; PRIOR FILING DATE: 1999-01-05
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 18
; LENGTH: 151
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-09-701-080C-18

Query Match 100.0%; Score 52; DB 2; Length 151;
Best Local Similarity 100.0%; Pred. No. 0.332; Indels 0; Gaps 0;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AVCDKCLKF 9
| | | | |
Db 61 AVCDKCLKF 69

RESULT 5
US-09-980-523A-2
; Sequence 2, Application US/09980523A
; Patent No. 6783763
; GENERAL INFORMATION:
; APPLICANT: CHOPPIN, JEANNINE
; APPLICANT: BOURGAULT VILLADA, ISABELLE
; APPLICANT: GUILLET, JEAN-GERARD
; APPLICANT: CONNAN, FRANCINE
; APPLICANT: FERRIES, ESTELLE
; TITLE OF INVENTION: POLYPEPTIDIC PROTEIN FRAGMENTS OF THE E6 AND E7
; TITLE OF INVENTION: PROTEINS OF HPV, THEIR PRODUCTION AND THEIR USE
; FILE REFERENCE: WO/01/40153
; CURRENT APPLICATION NUMBER: US/09/980,523A
; CURRENT FILING DATE: 2002-04-29
; PRIOR APPLICATION NUMBER: PCT/FR00/01513
; PRIOR FILING DATE: 2000-05-31
; PRIOR APPLICATION NUMBER: FR 99/07012
; PRIOR FILING DATE: 1999-06-03
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 2
; LENGTH: 158
; TYPE: PRT
; ORGANISM: Human Papillomavirus
US-09-980-523A-2

Query Match 100.0%; Score 52; DB 2; Length 158;
Best Local Similarity 100.0%; Pred. No. 0.33;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AVCDKCLKF 9
| | | | |
Db 68 AVCDKCLKF 76

RESULT 6
US-08-316-239B-3
; Sequence 3, Application US/08316239B
; Patent No. 5679509
; GENERAL INFORMATION:
; APPLICANT: Wheeler, Cosette M.
; TITLE OF INVENTION: Methods and a Diagnostic Aid for
; TITLE OF INVENTION: Distinguishing a Subset of HPV that is Associated with an
; TITLE OF INVENTION: Increased Risk of Developing Cervical Dysplasia and
; NUMBER OF SEQUENCES: 4
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Jagtiani & Associates
; STREET: 6126 Rocky Way Court
; CITY: Centreville
; STATE: VA
; COUNTRY: USA
; ZIP: 20120-3400
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/316,239B
; FILING DATE: 30-SEP-1994
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Jagtiani, Ajay A.
; REGISTRATION NUMBER: 35,205
; REFERENCE/DOCKET NUMBER: UNME-0001
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (703) 817-9453
; TELEFAX: (703) 803-9387
; INFORMATION FOR SEQ ID NO: 3:

SEQUENCE CHARACTERISTICS:
LENGTH: 162 amino acids
TYPE: amino acid
STRANDEDNESS: not relevant
TOPOLOGY: not relevant
MOLECULE TYPE: protein
HYPOTHETICAL: NO
US-08-316-239B-3

Query Match 100.0%; Score 52; DB 1; Length 162;
Best Local Similarity 100.0%; Pred. No. 0.34;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AVCDKCLKF 9
|||||
DB 68 AVCDKCLKF 76

RESULT 7
US-08-316-239B-4
Sequence 4, Application US/08316239B
Patent No. 5679509

GENERAL INFORMATION:
APPLICANT: Wheeler, Colette M.
TITLE OF INVENTION: Methods and a Diagnostic Aid for
TITLE OF INVENTION: Distinguishing a Subset of HPV that is Associated with an
TITLE OF INVENTION: Increased Risk of Developing Cervical Dysplasia and
TITLE OF INVENTION: Cervical Cancer
NUMBER OF SEQUENCES: 4
CORRESPONDENCE ADDRESS:
ADDRESSEE: Jagtanti & Associates
STREET: 6126 Rocky Way Court
CITY: Centreville
STATE: VA
COUNTRY: USA
ZIP: 20120-3400

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/316,239B
FILING DATE: 30-SEP-1994
CLASSIFICATION: 435

ATTORNEY/AGENT INFORMATION:
NAME: Jagtanti, Ajay A.
REGISTRATION NUMBER: 35,205
REFERENCE/DOCKET NUMBER: UNNE-0001
TELECOMMUNICATION INFORMATION:
TELEPHONE: (703) 817-9453
TELEFAX: (703) 803-9387

INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 162 amino acids
TYPE: amino acid
STRANDEDNESS: not relevant
TOPOLOGY: not relevant
MOLECULE TYPE: protein
HYPOTHETICAL: NO
US-08-316-239B-4

Query Match 100.0%; Score 52; DB 1; Length 162;
Best Local Similarity 100.0%; Pred. No. 0.34;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AVCDKCLKF 9
|||||
DB 68 AVCDKCLKF 76

RESULT 8

US-08-860-165-12
Sequence 12, Application US/08860165A
Patent No. 6004557

GENERAL INFORMATION:
APPLICANT: EDWARDS, Stirling John
APPLICANT: COX, John Cooper
APPLICANT: WEBB, Elizabeth Ann
APPLICANT: PRAZER, Ian
TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
FILE REFERENCE: 17227/130
CURRENT APPLICATION NUMBER: US/08/860,165A
CURRENT FILING DATE: 1997-09-22

EARLIER APPLICATION NUMBER: PCT/AU95/00868
EARLIER FILING DATE: 1995-12-20
EARLIER APPLICATION NUMBER: AU PNO157
EARLIER FILING DATE: 1994-12-20
NUMBER OF SEQ ID NOS: 15
SOFTWARE: Patent In Ver. 2.0
SEQ ID NO 12

LENGTH: 172
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Gene Fusion
US-08-860-165-12

Query Match 100.0%; Score 52; DB 2; Length 172;
Best Local Similarity 100.0%; Pred. No. 0.35;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AVCDKCLKF 9
|||||
DB 6 AVCDKCLKF 14

RESULT 9
US-08-860-165-14
Sequence 14, Application US/08860165A
Patent No. 6004557

GENERAL INFORMATION:
APPLICANT: EDWARDS, Stirling John
APPLICANT: COX, John Cooper
APPLICANT: WEBB, Elizabeth Ann
APPLICANT: PRAZER, Ian
TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
FILE REFERENCE: 17227/130
CURRENT APPLICATION NUMBER: US/08/860,165A
CURRENT FILING DATE: 1997-09-22

EARLIER APPLICATION NUMBER: PCT/AU95/00868
EARLIER FILING DATE: 1995-12-20
EARLIER APPLICATION NUMBER: AU PNO157
EARLIER FILING DATE: 1994-12-20
NUMBER OF SEQ ID NOS: 15
SOFTWARE: Patent In Ver. 2.0
SEQ ID NO 14

LENGTH: 172
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Gene Fusion
US-08-860-165-14

Query Match 100.0%; Score 52; DB 2; Length 172;
Best Local Similarity 100.0%; Pred. No. 0.35;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AVCDKCLKF 9
|||||
DB 137 AVCDKCLKF 145

RESULT 10
US-09-359-382-12

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; Sequence 12, Application US/09359382
; Patent No. 6306397
; GENERAL INFORMATION:
; APPLICANT: EDWARDS, Stirling John
; APPLICANT: COX, John Cooper
; APPLICANT: WEBB, Elizabeth Ann
; APPLICANT: FRAZER, Ian
; TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
; FILE REFERENCE: 017227/0148
; CURRENT APPLICATION NUMBER: US/09/359,382
; EARLIER FILING DATE: 1999-07-23
; EARLIER APPLICATION NUMBER: US 08/860,165
; EARLIER FILING DATE: 1997-09-22
; EARLIER APPLICATION NUMBER: PCT/AU95/00868
; EARLIER FILING DATE: 1995-12-20
; EARLIER APPLICATION NUMBER: AU PNO157/94
; EARLIER FILING DATE: 1994-12-20
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 12
; LENGTH: 172
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-09-359-382-12
```

```
Query Match          100.0%; Score 52; DB 2; Length 172;
Best Local Similarity 100.0%; Pred. No. 0.35;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 AVCDKCLKF 9
Db 6 AVCDKCLKF 14
```

```
RESULT 11
US-09-359-382-14
; Sequence 14, Application US/09359382
; Patent No. 6306397
; GENERAL INFORMATION:
; APPLICANT: EDWARDS, Stirling John
; APPLICANT: COX, John Cooper
; APPLICANT: WEBB, Elizabeth Ann
; APPLICANT: FRAZER, Ian
; TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
; FILE REFERENCE: 017227/0148
; CURRENT APPLICATION NUMBER: US/09/359,382
; EARLIER FILING DATE: 1999-07-23
; EARLIER APPLICATION NUMBER: US 08/860,165
; EARLIER FILING DATE: 1997-09-22
; EARLIER APPLICATION NUMBER: PCT/AU95/00868
; EARLIER FILING DATE: 1995-12-20
; EARLIER APPLICATION NUMBER: AU PNO157/94
; EARLIER FILING DATE: 1994-12-20
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 14
; LENGTH: 172
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-09-359-382-14
```

```
Query Match          100.0%; Score 52; DB 2; Length 172;
Best Local Similarity 100.0%; Pred. No. 0.35;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 AVCDKCLKF 9
Db 137 AVCDKCLKF 145
```

```
RESULT 12
US-09-462-993-1
; Sequence 1, Application US/09462993
```

```
; Patent No. 6884786
; GENERAL INFORMATION:
; APPLICANT: KIENY, Marie-Paule
; APPLICANT: BALLOUT, Jean-Marc
; APPLICANT: BIZOUARNE, Nadine
; TITLE OF INVENTION: ANTITUMORAL COMPOSITION BASED ON IMMUNOGENIC
; TITLE OF INVENTION: POLYPEPTIDE WITH MODIFIED CELL LOCATION
; FILE REFERENCE: 017753-122
; CURRENT APPLICATION NUMBER: US/09/462,993
; EARLIER FILING DATE: 2000-04-17
; PRIOR APPLICATION NUMBER: PCT/FR98/01576
; PRIOR FILING DATE: 1998-07-17
; PRIOR APPLICATION NUMBER: FR 97/09152
; PRIOR FILING DATE: 1997-07-18
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: PatentIn Ver. 2.2
; SEQ ID NO 1
; LENGTH: 243
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Derived from
; OTHER INFORMATION: human papillomavirus, strain HPV-16, E6 protein
; OTHER INFORMATION: fused F protein signals, clone E6*TMF.
US-09-462-993-1
```

```
Query Match          100.0%; Score 52; DB 2; Length 243;
Best Local Similarity 100.0%; Pred. No. 0.48;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 AVCDKCLKF 9
Db 96 AVCDKCLKF 104
```

```
RESULT 13
US-08-860-165-10
; Sequence 10, Application US/08860165A
; Patent No. 6004557
; GENERAL INFORMATION:
; APPLICANT: EDWARDS, Stirling John
; APPLICANT: COX, John Cooper
; APPLICANT: WEBB, Elizabeth Ann
; APPLICANT: FRAZER, Ian
; TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
; FILE REFERENCE: 17227/130
; CURRENT APPLICATION NUMBER: US/08/860,165A
; EARLIER FILING DATE: 1997-09-22
; EARLIER APPLICATION NUMBER: PCT/AU95/00868
; EARLIER FILING DATE: 1995-12-20
; EARLIER APPLICATION NUMBER: AU PNO157
; EARLIER FILING DATE: 1994-12-20
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 10
; LENGTH: 266
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Gene Fusion
US-08-860-165-10
```

```
Query Match          100.0%; Score 52; DB 2; Length 266;
Best Local Similarity 100.0%; Pred. No. 0.53;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 AVCDKCLKF 9
Db 68 AVCDKCLKF 76
```

```
RESULT 14
US-09-359-382-10
```

```
Sequence 10, Application US/09359382
; Patent No. 6306397
; GENERAL INFORMATION:
; APPLICANT: EDWARDS, Stirling John
; APPLICANT: COX, John Cooper
; APPLICANT: WEBB, Elizabeth Ann
; APPLICANT: PRAZER, Ian
; TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
; FILE REFERENCE: 017227/0148
; CURRENT APPLICATION NUMBER: US/09/359,382
; PRIOR FILING DATE: 1999-07-23
; EARLIER APPLICATION NUMBER: US 08/860,165
; PRIOR FILING DATE: 1997-09-22
; EARLIER APPLICATION NUMBER: PCT/AU95/00868
; EARLIER FILING DATE: 1995-12-20
; EARLIER APPLICATION NUMBER: AU PN0157/94
; EARLIER FILING DATE: 1994-12-20
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 10
; LENGTH: 266
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-09-359-382-10

Query Match          100.0%; Score 52; DB 2; Length 266;
Best Local Similarity 100.0%; Pred. No. 0.53;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 AVCDKCLKF 9
        |||||
DB      68 AVCDKCLKF 76

RESULT 15
US-09-367-309A-1
; Sequence 1, Application US/09367309A
; Patent No. 6428807
; GENERAL INFORMATION:
; APPLICANT: MACFARLAN, RODERICK I.
; APPLICANT: MALLIAROS, JIM
; TITLE OF INVENTION: CHELATING IMMUNOSTIMULATING COMPLEXES
; FILE REFERENCE: 017227/0149
; CURRENT APPLICATION NUMBER: US/09/367,309A
; PRIOR FILING DATE: 1999-08-11
; PRIOR APPLICATION NUMBER: PCT/AU98/00080
; PRIOR FILING DATE: 1998-02-13
; PRIOR APPLICATION NUMBER: AU PO 5178
; PRIOR FILING DATE: 1997-02-19
; NUMBER OF SEQ ID NOS: 6
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
; LENGTH: 266
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-09-367-309A-1

Query Match          100.0%; Score 52; DB 2; Length 266;
Best Local Similarity 100.0%; Pred. No. 0.53;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 AVCDKCLKF 9
        |||||
DB      68 AVCDKCLKF 76

RESULT 16
US-09-485-885-4
; Sequence 4, Application US/09485885
; Patent No. 6342224
; GENERAL INFORMATION:
; APPLICANT: Bruck, Claudine
; APPLICANT: Cabazon Silva, Teresa
; APPLICANT: Cabazon Silva, Teresa
US-09-485-885-4
```

```
APPLICANT: Delisse, Anne-Marie Eva Fernande
; APPLICANT: Gerard, Catherine Marie Ghislaine
; APPLICANT: Lombardo-Bencheikh, Angela
; TITLE OF INVENTION: Vaccine
; FILE REFERENCE: B45107
; CURRENT APPLICATION NUMBER: US/09/485,885
; PRIOR FILING DATE: 2000-02-18
; PRIOR APPLICATION NUMBER: PCT/EP98/05285
; PRIOR FILING DATE: 1998-08-17
; PRIOR FILING DATE: 1997-08-22
; PRIOR APPLICATION NUMBER: GB 9717953.5
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 4
; LENGTH: 273
; TYPE: PRT
; ORGANISM: Homo sapien
US-09-485-885-4

Query Match          100.0%; Score 52; DB 2; Length 273;
Best Local Similarity 100.0%; Pred. No. 0.54;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 AVCDKCLKF 9
        |||||
DB      174 AVCDKCLKF 182

RESULT 17
US-09-485-885-10
; Sequence 10, Application US/09485885
; Patent No. 6342224
; GENERAL INFORMATION:
; APPLICANT: Bruck, Claudine
; APPLICANT: Cabazon Silva, Teresa
; APPLICANT: Delisse, Anne-Marie Eva Fernande
; APPLICANT: Gerard, Catherine Marie Ghislaine
; APPLICANT: Lombardo-Bencheikh, Angela
; TITLE OF INVENTION: Vaccine
; FILE REFERENCE: B45107
; CURRENT APPLICATION NUMBER: US/09/485,885
; PRIOR FILING DATE: 2000-02-18
; PRIOR APPLICATION NUMBER: PCT/EP98/05285
; PRIOR FILING DATE: 1998-08-17
; PRIOR APPLICATION NUMBER: GB 9717953.5
; PRIOR FILING DATE: 1997-08-22
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 10
; LENGTH: 292
; TYPE: PRT
; ORGANISM: Homo sapien
US-09-485-885-10

Query Match          100.0%; Score 52; DB 2; Length 292;
Best Local Similarity 100.0%; Pred. No. 0.57;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 AVCDKCLKF 9
        |||||
DB      193 AVCDKCLKF 201

RESULT 18
US-09-485-885-6
; Sequence 6, Application US/09485885
; Patent No. 6342224
; GENERAL INFORMATION:
; APPLICANT: Bruck, Claudine
; APPLICANT: Cabazon Silva, Teresa
; APPLICANT: Delisse, Anne-Marie Eva Fernande
; APPLICANT: Gerard, Catherine Marie Ghislaine
; APPLICANT: Lombardo-Bencheikh, Angela
```

```

; TITLE OF INVENTION: Vaccine
; FILE REFERENCE: B45107
; CURRENT APPLICATION NUMBER: US/09/485,885
; CURRENT FILING DATE: 2000-02-18
; PRIOR APPLICATION NUMBER: PCT/EP98/05285
; PRIOR FILING DATE: 1998-08-17
; PRIOR APPLICATION NUMBER: GB 9717953.5
; PRIOR FILING DATE: 1997-08-22
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 6
; LENGTH: 371
; TYPE: PRT
; ORGANISM: Homo sapien
;
US-09-485-885-6
;
Query Match          100.0%; Score 52; DB 2; Length 371;
Best Local Similarity 100.0%; Pred. No. 0.71;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 AVCDKCLKF 9
Db      174 AVCDKCLKF 182

RESULT 19
US-09-485-885-14
; Sequence 14, Application US/09485885
; Patent No. 6342224
; GENERAL INFORMATION:
; APPLICANT: Bruck, Claudine
; APPLICANT: Cabezon Silva, Teresa
; APPLICANT: Delisse, Anne-Marie Eva Bernande
; APPLICANT: Gerard, Catherine Marie Ghislaine
; APPLICANT: Lombardo-Bencheikh, Angela
; TITLE OF INVENTION: Vaccine
; FILE REFERENCE: B45107
; CURRENT APPLICATION NUMBER: US/09/485,885
; CURRENT FILING DATE: 2000-02-18
; PRIOR APPLICATION NUMBER: PCT/EP98/05285
; PRIOR FILING DATE: 1998-08-17
; PRIOR APPLICATION NUMBER: GB 9717953.5
; PRIOR FILING DATE: 1997-08-22
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 14
; LENGTH: 390
; TYPE: PRT
; ORGANISM: Homo sapien
;
US-09-485-885-14
;
Query Match          100.0%; Score 52; DB 2; Length 390;
Best Local Similarity 100.0%; Pred. No. 0.74;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 AVCDKCLKF 9
Db      193 AVCDKCLKF 201

RESULT 20
US-08-159-339A-74
; Sequence 74, Application US/08159339A
; Patent No. 6037135
; GENERAL INFORMATION:
; APPLICANT: Kubo, Ralph T.
; APPLICANT: Grey, Howard M.
; APPLICANT: Sette, Alessandro
; APPLICANT: Celis, Bieleban
; TITLE OF INVENTION: HLA Binding peptides and Their
; TITLE OF INVENTION: Uses
; NUMBER OF SEQUENCES: 1254
; CORRESPONDENCE ADDRESS:
;
```

```

; ADDRESSER: Townsend and Townsend and Crew LLP
; STREET: Two Embarcadero Center, Eighth Floor
; CITY: San Francisco
; STATE: CA
; COUNTRY: USA
; ZIP: 94111-3834
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/159,339A
; FILING DATE: 29-NOV-1993
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/926,666
; FILING DATE: 07-AUG-1992
; APPLICATION NUMBER: US 08/027,746
; FILING DATE: 05-MAR-1993
; APPLICATION NUMBER: US 08/103,396
; FILING DATE: 06-AUG-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Weber, Ellen Lauver
; REGISTRATION NUMBER: 32,762
; REFERENCE/DOCKET NUMBER: 018623-005030US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (415) 576-0200
; TELEFAX: (415) 576-0300
;
; INFORMATION FOR SEQ ID NO: 74:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 9 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
;
US-08-159-339A-74
;
```

```

Query Match          92.3%; Score 48; DB 2; Length 9;
Best Local Similarity 100.0%; Pred. No. 4.6e+05;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      2 VCDKCLKF 9
Db      1 VCDKCLKF 8
```

```

RESULT 21
US-08-934-915-162
; Sequence 162, Application US/08934915
; Patent No. 5932412
; GENERAL INFORMATION:
; APPLICANT: DILLNER, JOAKIM
; APPLICANT: DILLNER, LENA
; APPLICANT: CHENG, HWEE-MING
; TITLE OF INVENTION: SYNTHETIC PEPTIDES OF HUMAN
; TITLE OF INVENTION: PAPILLOMAVIRUS 1, 5, 6, 8,
; TITLE OF INVENTION: 11, 16, 18, 31, 33 AND 56,
; TITLE OF INVENTION: USEFUL IN IMMUNOASSAY FOR
; TITLE OF INVENTION: DIAGNOSTIC PURPOSES
; NUMBER OF SEQUENCES: 193
; CORRESPONDENCE ADDRESS:
; ADDRESSER: MASON & ASSOCIATES, P.A.
; STREET: 17757 U.S. HWY. 19 NORTH, SUITE 500
; CITY: CLEARWATER
; STATE: FLORIDA
; COUNTRY: U.S.A.
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: Windows 3.0
; SOFTWARE: Microsoft Word 6.0
;
```

;; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/934,915
; FILING DATE: 22-SEP-1997
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 07/949,836
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: LOUISE A. FOUTCH
; REGISTRATION NUMBER: 37,133
; REFERENCE/DOCKET NUMBER: 1946.6
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 813-538-3800
; TELEFAX: 813-538-3820
; TELETYPE:
; INFORMATION FOR SEQ ID NO: 162:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-08-934-915-162

Query Match 90.4%; Score 47; DB 1; Length 20;
Best Local Similarity 88.9%; Pred. No. 0.31;
Matches 8; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 AVCDKCLK 9
DB 7 AVCNCKLKF 15

RESULT 22
US-08-159-339A-1169
; Sequence 1169, Application US/08159339A
; Patent No. 6037135
; GENERAL INFORMATION:
; APPLICANT: Kubo, Ralph T.
; APPLICANT: Grey, Howard M.
; APPLICANT: Sette, Alessandro
; APPLICANT: Celis, Esben
; TITLE OF INVENTION: HLA Binding peptides and Their
; TITLE OF INVENTION: Uses
; NUMBER OF SEQUENCES: 1254
; CORRESPONDENCE ADDRESS:
; ADDRESSER: Townsend and Townsend and Crew LLP
; STREET: Two Embarcadero Center, Eighth Floor
; CITY: San Francisco
; STATE: CA
; COUNTRY: USA
; ZIP: 94111-3834
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FASTSEQ for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/159,339A
; FILING DATE: 29-NOV-1993
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/926,666
; FILING DATE: 07-AUG-1992
; APPLICATION NUMBER: US 08/027,746
; FILING DATE: 05-MAR-1993
; APPLICATION NUMBER: US 08/103,396
; FILING DATE: 06-AUG-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Weber, Ellen Lauver
; REGISTRATION NUMBER: 32,762
; REFERENCE/DOCKET NUMBER: 018623-005030US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (415) 576-0200

;; TELEFAX: (415) 576-0300
; TELETYPE:
; INFORMATION FOR SEQ ID NO: 1169:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 8 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-08-159-339A-1169

Query Match 88.5%; Score 46; DB 2; Length 8;
Best Local Similarity 100.0%; Pred. No. 4.6e+05;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AVCDKCLK 8
DB 1 AVCDKCLK 8

RESULT 23
US-08-207-954-5
; Sequence 5, Application US/08207954
; Patent No. 6689560
; GENERAL INFORMATION:
; APPLICANT: RAPP, URP
; APPLICANT: STORM, STEPHEN M.
; TITLE OF INVENTION: RAF PROTEIN KINASE THERAPEUTICS
; NUMBER OF SEQUENCES: 8
; CORRESPONDENCE ADDRESS:
; ADDRESSER: CUSHMAN, DARBY & CUSHMAN
; STREET: 1100 NEW YORK AVE., N.W.
; CITY: WASHINGTON
; STATE: D.C.
; COUNTRY: USA
; ZIP: 20005
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/207,954
; FILING DATE: 18-MAR-1994
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/748,931
; FILING DATE: 23-AUG-1991
; ATTORNEY/AGENT INFORMATION:
; NAME: SCOTT, WATSON T.
; REGISTRATION NUMBER: 26,581
; REFERENCE/DOCKET NUMBER: 5683/82731
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 202-861-3067
; TELEFAX: 202-822-0944
; TELETYPE: 6714627 CUSH
; INFORMATION FOR SEQ ID NO: 5:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 606 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-08-207-954-5

Query Match 75.0%; Score 39; DB 2; Length 606;
Best Local Similarity 77.8%; Pred. No. 1.2e+02;
Matches 7; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 AVCDKCLK 9
DB 110 ACDKCLK 118

RESULT 24

US-08-568-459A-12

Sequence 12, Application US/08568459A

Patent No. 5849306

GENERAL INFORMATION:

APPLICANT: Sim, Kim L.

APPLICANT: Chitnis, Chetan

APPLICANT: Miller, Louis H.

APPLICANT: Peterson, David S.

APPLICANT: Su, Xin-zhaun

APPLICANT: Wellens, Thomas E.

TITLE OF INVENTION: BINDING DOMAINS FROM PLASMODIUM VIVAX

TITLE OF INVENTION: AND PLASMODIUM FALCIPARUM ERYTHROCYTE BINDING PROTEINS

NUMBER OF SEQUENCES: 37

CORRESPONDENCE ADDRESS:

ADDRESSEE: Knobbe Martens Olson & Bear

STREET: 620 Newport Center Drive 16th Floor

CITY: Newport Beach

STATE: California

COUNTRY: US

ZIP: 92660

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: PatentIn Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/568,459A

FILING DATE: 07-Dec-1995

CLASSIFICATION: 435

ATTORNEY/AGENT INFORMATION:

NAME: Israelson, Ned

REGISTRATION NUMBER: 29,655

REFERENCE/DOCKET NUMBER: NIH121.001CPI

TELECOMMUNICATION INFORMATION:

TELEPHONE: (619) 235-8550

TELEFAX: (619) 235-0176

INFORMATION FOR SEQ ID NO: 12:

SEQUENCE CHARACTERISTICS:

LENGTH: 2710 amino acids

TYPE: amino acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: protein

HYPOTHETICAL: NO

ORIGINAL SOURCE:

ORGANISM: Plasmodium falciparum

US-08-568-459A-12

Query Match 73.1%; Score 38; DB 1; Length 2710;

Best Local Similarity 85.7%; Pred. No. 6.8e+02;

Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 3 CDCKLKF 9

DB 2222 CDCKLKF 2228

RESULT 25

US-08-487-826B-12

Sequence 12, Application US/08487826B

Patent No. 5993827

GENERAL INFORMATION:

APPLICANT: Sim, Kim L.

APPLICANT: Chitnis, Chetan

APPLICANT: Miller, Louis H.

APPLICANT: Peterson, David S.

APPLICANT: Su, Xin-zhaun

APPLICANT: Wellens, Thomas E.

TITLE OF INVENTION: BINDING DOMAINS FROM PLASMODIUM VIVAX

TITLE OF INVENTION: AND PLASMODIUM FALCIPARUM ERYTHROCYTE BINDING PROTEINS

NUMBER OF SEQUENCES: 45

CORRESPONDENCE ADDRESS:

ADDRESSEE: Knobbe Martens Olson & Bear

STREET: 620 Newport Center Drive 16th Floor

CITY: Newport Beach

STATE: California

COUNTRY: US

ZIP: 92660

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: PatentIn Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/487,826B

FILING DATE: 10-SEP-1993

CLASSIFICATION: 435

ATTORNEY/AGENT INFORMATION:

NAME: Israelson, Ned

REGISTRATION NUMBER: 29,655

REFERENCE/DOCKET NUMBER: NIH121.001CPI

TELECOMMUNICATION INFORMATION:

TELEPHONE: (619) 235-8550

TELEFAX: (619) 235-0176

INFORMATION FOR SEQ ID NO: 12:

SEQUENCE CHARACTERISTICS:

LENGTH: 2710 amino acids

TYPE: amino acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: protein

HYPOTHETICAL: NO

ORIGINAL SOURCE:

ORGANISM: Plasmodium falciparum

US-08-487-826B-12

Query Match 73.1%; Score 38; DB 1; Length 2710;

Best Local Similarity 85.7%; Pred. No. 6.8e+02;

Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 3 CDCKLKF 9

DB 2222 CDCKLKF 2228

RESULT 26

US-09-210-288-12

Sequence 12, Application US/09210288

Patent No. 6397026

GENERAL INFORMATION:

APPLICANT: Sim, Kim L.

APPLICANT: Chitnis, Chetan

APPLICANT: Miller, Louis H.

APPLICANT: Peterson, David S.

APPLICANT: Su, Xin-zhaun

APPLICANT: Wellens, Thomas E.

TITLE OF INVENTION: BINDING DOMAINS FROM PLASMODIUM VIVAX

TITLE OF INVENTION: AND PLASMODIUM FALCIPARUM ERYTHROCYTE BINDING PROTEINS

NUMBER OF SEQUENCES: 37

CORRESPONDENCE ADDRESS:

ADDRESSEE: Knobbe Martens Olson & Bear

STREET: 620 Newport Center Drive 16th Floor

CITY: Newport Beach

STATE: California

COUNTRY: US

ZIP: 92660

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: PatentIn Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/210,288

FILING DATE:
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: Fuller, Michael
REGISTRATION NUMBER: 36,516
REFERENCE/DOCKET NUMBER: NIH121.1FMDV1
TELECOMMUNICATION INFORMATION:
TELEPHONE: (619) 235-8550
TELEFAX: (619) 235-0176
INFORMATION FOR SEQ ID NO: 12:
SEQUENCE CHARACTERISTICS:
LENGTH: 2710 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
HYPOTHETICAL: NO
ORIGINAL SOURCE:
ORGANISM: Plasmodium falciparum
US-09-210-288-12

Query Match 73.1%; Score 38; DB 2; Length 2710;
Best Local Similarity 85.7%; Pred. No. 6.8e+02;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 3 CDCLKF 9
Db 2222 CDCLKF 2228

RESULT 27
US-10-153-273-12
Sequence 12, Application US/10153273
Patent No. 6962987
GENERAL INFORMATION:
APPLICANT: Sim, Kim L.
Chitnis, Chetan
Miller, Louis H.
Peterson, David S.
Su, Xin-zhaun
Wellens, Thomas E.
TITLE OF INVENTION: BINDING DOMAINS FROM PLASMODIUM VIVAX
AND PLASMODIUM FALCIPARUM ERYTHROCYTE BINDING PROTEINS
NUMBER OF SEQUENCES: 37
CORRESPONDENCE ADDRESS:
ADDRESSER: Knobbe Martens Olson & Bear
STREET: 620 Newport Center Drive 16th Floor
CITY: Newport Beach
STATE: California
COUNTRY: US
ZIP: 92660
COMPUTER READABLE FORM:
MEDIUM TYPE: floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Releasee #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/153,273
FILING DATE: 21-May-2002
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/09/210,288
FILING DATE: <Unknown>
ATTORNEY/AGENT INFORMATION:
NAME: Fuller, Michael
REGISTRATION NUMBER: 36,516
REFERENCE/DOCKET NUMBER: NIH121.1FMDV1
TELECOMMUNICATION INFORMATION:
TELEPHONE: (619) 235-8550
TELEFAX: (619) 235-0176
INFORMATION FOR SEQ ID NO: 12:
SEQUENCE CHARACTERISTICS:
LENGTH: 2710 amino acids

TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
HYPOTHETICAL: NO
ORIGINAL SOURCE:
ORGANISM: Plasmodium falciparum
SEQUENCE DESCRIPTION: SEQ ID NO: 12:
US-10-153-273-12

Query Match 73.1%; Score 38; DB 2; Length 2710;
Best Local Similarity 85.7%; Pred. No. 6.8e+02;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 3 CDCLKF 9
Db 2222 CDCLKF 2228

RESULT 28
US-08-487-826B-14
Sequence 14, Application US/08487826B
Patent No. 5993827
GENERAL INFORMATION:
APPLICANT: Sim, Kim L.
Chitnis, Chetan
Miller, Louis H.
Peterson, David S.
APPLICANT: Su, Xin-zhaun
Wellens, Thomas E.
TITLE OF INVENTION: BINDING DOMAINS FROM PLASMODIUM VIVAX
AND PLASMODIUM FALCIPARUM ERYTHROCYTE BINDING PROTEINS
NUMBER OF SEQUENCES: 45
CORRESPONDENCE ADDRESS:
ADDRESSER: Knobbe Martens Olson & Bear
STREET: 620 Newport Center Drive 16th Floor
CITY: Newport Beach
STATE: California
COUNTRY: US
ZIP: 92660
COMPUTER READABLE FORM:
MEDIUM TYPE: floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Releasee #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/487,826B
FILING DATE: 10-Sep-1993
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Israelsen, Ned
REGISTRATION NUMBER: 29,655
REFERENCE/DOCKET NUMBER: NIH121.001CP1
TELECOMMUNICATION INFORMATION:
TELEPHONE: (619) 235-8550
TELEFAX: (619) 235-0176
INFORMATION FOR SEQ ID NO: 14:
SEQUENCE CHARACTERISTICS:
LENGTH: 3060 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-487-826B-14

Query Match 73.1%; Score 38; DB 1; Length 3060;
Best Local Similarity 85.7%; Pred. No. 7.6e+02;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 3 CDCLKF 9
Db 2220 CDCLKF 2226

RESULT 29
US-08-194-468-2
; Sequence 2, Application US/08194468
; Patent No. 5750336
; GENERAL INFORMATION:
; APPLICANT: Montminy, Marc R.
; TITLE OF INVENTION: ASSAYS FOR THE IDENTIFICATION OF
; TITLE OF INVENTION: COMPOUNDS WHICH INHIBIT ACTIVATION OF CAMP AND MITOGEN
; TITLE OF INVENTION: RESPONSIVE GENES
; NUMBER OF SEQUENCES: 3
; CORRESPONDENCE ADDRESSES:
; ADDRESSEE: Pretty, Schroeder, Brueggemann & Clark
; STREET: 444 South Flower Street, Suite 2000
; CITY: Los Angeles
; STATE: California
; COUNTRY: USA
; ZIP: 90071
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/194,468
; FILING DATE: 10-FEB-1994
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Reiter, Stephen E.
; REGISTRATION NUMBER: 31,192
; REFERENCE/DOCKET NUMBER: P41 9672
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (619)-546-4737
; TELEFAX: (619)-546-9392
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2441 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-194-468-2

Query Match 71.2%; Score 37; DB 1; Length 2441;
Best Local Similarity 85.7%; Pred. No. 8.9e+02;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2 VCDKCLK 8
Db 1308 VCDNCLK 1314

RESULT 30
US-08-961-739-2
; Sequence 2, Application US/08961739A
; Patent No. 6063583
; GENERAL INFORMATION:
; APPLICANT: Montminy, Marc R.
; TITLE OF INVENTION: Methods for Treating Diabetes Mellitus
; FILE REFERENCE: SALK1650-1
; CURRENT APPLICATION NUMBER: US/08/961,739A
; CURRENT FILING DATE: 1997-10-31
; EARLIER APPLICATION NUMBER: US 194,468
; EARLIER FILING DATE: 1994-02-10
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2
; LENGTH: 2441
; TYPE: PRT
; ORGANISM: Mus
; FEATURE:
; NAME/KEY: VARIANT
; LOCATION: (1)...(2441)
; OTHER INFORMATION: Xaa = Any Amino Acid

US-08-961-739-2

Query Match 71.2%; Score 37; DB 2; Length 2441;
Best Local Similarity 85.7%; Pred. No. 8.9e+02;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2 VCDKCLK 8
Db 1308 VCDNCLK 1314

RESULT 31
US-09-514-247A-8
; Sequence 8, Application US/09514247A
; Patent No. 6365361
; GENERAL INFORMATION:
; APPLICANT: TANABE SEIYAKU CO. LTD.
; APPLICANT: TANIGUCHI, Tomoyasu
; APPLICANT: MIZUKAMI, Junko
; TITLE OF INVENTION: METHOD FOR IDENTIFYING OR SCREENING AGONIST AND ANTAGONIST TO PR
; FILE REFERENCE: TANIGUCHI-6
; CURRENT APPLICATION NUMBER: US/09/514,247A
; CURRENT FILING DATE: 2000-02-28
; PRIOR APPLICATION NUMBER: PCT/JP98/03734
; PRIOR FILING DATE: 1998-08-24
; PRIOR APPLICATION NUMBER: JP231084/1997
; PRIOR FILING DATE: 1997-08-27
; NUMBER OF SEQ ID NOS: 10
; SOFTWARE: Patentin version 3.0
; SEQ ID NO 8
; LENGTH: 2441
; TYPE: PRT
; ORGANISM: mouse
; US-09-514-247A-8

Query Match 71.2%; Score 37; DB 2; Length 2441;
Best Local Similarity 85.7%; Pred. No. 8.9e+02;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2 VCDKCLK 8
Db 1308 VCDNCLK 1314

RESULT 32
US-09-686-316-2
; Sequence 2, Application US/09686316
; Patent No. 6646115
; GENERAL INFORMATION:
; APPLICANT: Montminy, Marc R.
; TITLE OF INVENTION: Methods for Treating Diabetes Mellitus
; FILE REFERENCE: SALK1650-1
; CURRENT APPLICATION NUMBER: US/09/686,316
; CURRENT FILING DATE: 2000-10-10
; PRIOR APPLICATION NUMBER: US/08/961,739
; PRIOR FILING DATE: 1997-10-31
; PRIOR APPLICATION NUMBER: US 194,468
; PRIOR FILING DATE: 1994-02-10
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2
; LENGTH: 2441
; TYPE: PRT
; ORGANISM: Mus
; FEATURE:
; NAME/KEY: VARIANT
; LOCATION: (1)...(2441)
; OTHER INFORMATION: Xaa = Any Amino Acid
; US-09-686-316-2

Query Match 71.2%; Score 37; DB 2; Length 2441;
Best Local Similarity 85.7%; Pred. No. 8.9e+02;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2 VCDKCLK 8
|||
Db 1308 VCDNCLK 1314

RESULT 33

US-09-514-247A-10
; Sequence 10, Application US/09514247A
; Patent No. 6365361
; GENERAL INFORMATION:
; APPLICANT: TANABE SEIYAKU CO. LTD.
; APPLICANT: TANIGUCHI, Tomoyasu
; APPLICANT: MIZUKAMI, Junko
; TITLE OF INVENTION: METHOD FOR IDENTIFYING OR SCREENING AGONIST AND ANTAGONIST TO PPA
; FILE REFERENCE: TANIGUCHI-6
; CURRENT APPLICATION NUMBER: US/09/514,247A
; CURRENT FILING DATE: 2000-02-28
; PRIOR APPLICATION NUMBER: PCT/JP98/03734
; PRIOR FILING DATE: 1998-08-24
; PRIOR APPLICATION NUMBER: JP21084/1997
; PRIOR FILING DATE: 1997-08-27
; NUMBER OF SEQ ID NOS: 10
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 10
; LENGTH: 2442
; TYPE: PRT
; ORGANISM: human
US-09-514-247A-10

Query Match 71.2%; Score 37; DB 2; Length 2442;

Best Local Similarity 85.7%; Pred. No. 8.9e+02; Mismatches 1; Indels 0; Gaps 0;

QY 2 VCDKCLK 8
|||
Db 1307 VCDNCLK 1313

RESULT 34

US-09-538-092-1370
; Sequence 1370, Application US/09538092
; Patent No. 6753314
; GENERAL INFORMATION:
; APPLICANT: Glot, Loic
; APPLICANT: Mansfield, Traci A.
; TITLE OF INVENTION: Protein-Protein Complexes and Method of Using Same
; FILE REFERENCE: 15966-542
; CURRENT APPLICATION NUMBER: US/09/538,092
; CURRENT FILING DATE: 2000-03-29
; PRIOR APPLICATION NUMBER: 60/127,352
; PRIOR FILING DATE: 1999-04-01
; PRIOR APPLICATION NUMBER: 60/178,965
; PRIOR FILING DATE: 2000-02-01
; NUMBER OF SEQ ID NOS: 1387
; SOFTWARE: CurPatSeqFormatter Version 0.9
; SEQ ID NO 1370
; LENGTH: 2442
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (0)...(0)
; OTHER INFORMATION: Polypeptide Accession Number Q92793
US-09-538-092-1370

Query Match 71.2%; Score 37; DB 2; Length 2442;

Best Local Similarity 85.7%; Pred. No. 8.9e+02; Mismatches 1; Indels 0; Gaps 0;

QY 2 VCDKCLK 8
|||
Db 1307 VCDNCLK 1313

RESULT 35

US-09-134-000C-4206
; Sequence 4206, Application US/09134000C
; Patent No. 6617156
; GENERAL INFORMATION:
; APPLICANT: Lynn Doucette-Stamm et al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO
; FILE REFERENCE: 032796-032
; CURRENT APPLICATION NUMBER: US/09/134,000C
; CURRENT FILING DATE: 1998-08-13
; PRIOR APPLICATION NUMBER: US 60/055,778
; PRIOR FILING DATE: 1997-08-15
; NUMBER OF SEQ ID NOS: 6812
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 4206
; LENGTH: 74
; TYPE: PRT
; ORGANISM: Enterococcus faecalis
US-09-134-000C-4206

Query Match 69.2%; Score 36; DB 2; Length 74;

Best Local Similarity 71.4%; Pred. No. 55; Mismatches 5; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 2 VCDKCLK 8
|||
Db 62 VCDKCLIE 68

RESULT 36

US-09-732-210-151
; Sequence 151, Application US/09732210
; Patent No. 6573361
; GENERAL INFORMATION:
; APPLICANT: Bankers, Greg J.
; APPLICANT: Liang, Jihong
; APPLICANT: Mitranck, Cindy A.
; APPLICANT: Seale, Jeffrey W.
; APPLICANT: Wu, Yonnie S.
; TITLE OF INVENTION: Anti-Fungal Proteins and Methods for Their Use
; FILE REFERENCE: 38-21(15036)B
; CURRENT APPLICATION NUMBER: US/09/732,210
; CURRENT FILING DATE: 2000-12-07
; PRIOR APPLICATION NUMBER: US 60/169,513
; PRIOR FILING DATE: 1999-12-07
; PRIOR APPLICATION NUMBER: US 60/169,340
; PRIOR FILING DATE: 1999-12-07
; NUMBER OF SEQ ID NOS: 1753
; SEQ ID NO 151
; LENGTH: 69
; TYPE: PRT
; ORGANISM: Aquifex aeolicus
US-09-732-210-151

Query Match 67.3%; Score 35; DB 2; Length 69;

Best Local Similarity 85.7%; Pred. No. 74; Mismatches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2 VCDKCLK 8
|||
Db 49 VCTKCLK 55

RESULT 37

US-09-543-681A-8341
; Sequence 8341, Application US/09543681A
; Patent No. 6605709
; GENERAL INFORMATION:
; APPLICANT: GARY BRETON
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PROTEUS MIRABILIS

;; TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS
;; FILE REFERENCE: 2709.1002-001
;; CURRENT APPLICATION NUMBER: US/09/543,681A
;; CURRENT FILING DATE: 2000-04-05
;; PRIOR APPLICATION NUMBER: US 60/128,706
;; PRIOR FILING DATE: 1999-04-09
;; NUMBER OF SEQ ID NOS: 8344
;; SEQ ID NO: 8341
;; LENGTH: 74
;; TYPE: PRT
;; ORGANISM: Proteus mirabilis
US-09-543-681A-8341

Query Match 67.3%; Score 35; DB 2; Length 74;
Best Local Similarity 75.0%; Pred. No. 79;
Matches 6; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2 VCDKCLKF 9
DB 40 VCDKCHPF 47

RESULT 38
US-09-706-722A-3
; Sequence 3, Application US/09706722A
; Patent No. 6670328
; GENERAL INFORMATION:
; APPLICANT: LASSALLE, PHILIPPE
; APPLICANT: MARCHANDISE, GENEVIEVE
; APPLICANT: KERVODIZE, GRENOLA
; APPLICANT: TONNEL, ANDRE BERNARD
; APPLICANT: MOLLART, SOPHIE
; TITLE OF INVENTION: PROTEINS AND PEPTIDES DERIVED FROM PROTEIN ESM-1 AND
; TITLE OF INVENTION: THEIR USES IN THE TREATMENT AND DIAGNOSIS OF DISEASES
; TITLE OF INVENTION: LINKED TO LEUKOCYTE MIGRATION
; FILE REFERENCE: 8425/P-61263US2
; CURRENT APPLICATION NUMBER: US/09/706,722A
; CURRENT FILING DATE: 2000-11-07
; PRIOR APPLICATION NUMBER: 09/102,909
; PRIOR FILING DATE: 1998-06-23
; PRIOR APPLICATION NUMBER: 60/050,614
; PRIOR FILING DATE: 1997-06-24
; NUMBER OF SEQ ID NOS: 10
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 3
; LENGTH: 165
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-706-722A-3

Query Match 67.3%; Score 35; DB 2; Length 165;
Best Local Similarity 58.3%; Pred. No. 1.6e+02;
Matches 7; Conservative 1; Mismatches 0; Indels 4; Gaps 1;

QY 2 VCD----KCLKF 9
DB 102 ICDRGTKCLKF 113

RESULT 39
US-08-464-339A-2
; Sequence 2, Application US/08464339A
; Patent No. 5747280
; GENERAL INFORMATION:
; APPLICANT: HASTINGS, ET AL.
; TITLE OF INVENTION: Human Vascular IBP-Like Growth
; TITLE OF INVENTION: Factor
; NUMBER OF SEQUENCES: 17
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: CARELLA, BYRNE, BAIN, GILFILLAN,
; ADDRESSEE: CECCHI, STEWART & OLSTEIN
; STREET: 6 BECKER FARM ROAD
; CITY: ROSELAND

;; STATE: NEW JERSEY
;; COUNTRY: USA
;; ZIP: 07068
;; COMPUTER READABLE FORM:
;; MEDIUM TYPE: 3.5 INCH DISKETTE
;; COMPUTER: IBM PS/2
;; OPERATING SYSTEM: MS-DOS
;; SOFTWARE: WORD PERFECT 5.1
;; CURRENT APPLICATION DATA:
;; APPLICATION NUMBER: US/08/464,339A
;; FILING DATE: June 5, 1995
;; CLASSIFICATION: 536
;; PRIOR APPLICATION DATA:
;; APPLICATION NUMBER: PCT/US94/14388
;; FILING DATE: 9 DEC 1994
;; ATTORNEY/AGENT INFORMATION:
;; NAME: MULLINS, J.G.
;; REGISTRATION NUMBER: 33,073
;; REFERENCE/DOCKET NUMBER: 325800-332
;; TELECOMMUNICATION INFORMATION:
;; TELEPHONE: 201-994-1700
;; TELEFAX: 201-994-1744
;; INFORMATION FOR SEQ ID NO: 2:
;; SEQUENCE CHARACTERISTICS:
;; LENGTH: 184 AMINO ACIDS
;; TYPE: AMINO ACID
;; STRANDEDNESS:
;; TOPOLOGY: LINEAR
;; MOLECULE TYPE: PROTEIN
US-08-464-339A-2

Query Match 67.3%; Score 35; DB 1; Length 184;
Best Local Similarity 58.3%; Pred. No. 1.8e+02;
Matches 7; Conservative 1; Mismatches 0; Indels 4; Gaps 1;

QY 2 VCD----KCLKF 9
DB 121 ICDRGTKCLKF 132

RESULT 40
US-08-468-847B-18
; Sequence 18, Application US/08468847B
; Patent No. 5780263
; GENERAL INFORMATION:
; APPLICANT: Hastings, Gregg A. and Adams, Mark D.
; TITLE OF INVENTION: Human CCN-Like Growth Factor
; NUMBER OF SEQUENCES: 20
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: CARELLA, BYRNE, BAIN, GILFILLAN,
; ADDRESSEE: CECCHI, STEWART & OLSTEIN
; STREET: 6 BECKER FARM ROAD
; CITY: ROSELAND
; STATE: NEW JERSEY
; COUNTRY: USA
; ZIP: 07068
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5 INCH DISKETTE
; COMPUTER: IBM PS/2
; OPERATING SYSTEM: MS-DOS
; SOFTWARE: WORD PERFECT 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/468,847B
; FILING DATE: 6 June 1995
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: MULLINS, J.G.
; REGISTRATION NUMBER: 33,073
; REFERENCE/DOCKET NUMBER: 325800-442
; TELECOMMUNICATION INFORMATION:

```

: TELEPHONE: 201-994-1700
: TELFAX: 201-994-1144
: INFORMATION FOR SEQ ID NO:
: SEQUENCE CHARACTERISTICS:
: LENGTH: 184 AMINO ACIDS
: TYPE: AMINO ACID
: STRANDEDNESS:
: TOPOLOGY: LINEAR
: MOLECULE TYPE: PROTEIN
:
: US-08-468-8475-18

```

Query Match	67.3%	Score 35	DB 1	Length 184
Best Local Similarity	58.3%	Pred. No.	1.8e+02	
Matches	7	Conservative	0	Indels 4
				Gaps 1

```
QY      2 VCD---KCLKF 9
      :|||
Db     121 ICDRGTKCLKF 132
```

```

RESULT 41
US-09-706-722A-2
; Sequence 2, Application US/09706722A
; Patent No. 6670328
; GENERAL INFORMATION:
; APPLICANT: LASSALLE, PHILIPPE
; APPLICANT: MARCHANDISE, GENEVIEVE
; APPLICANT: KERVOAZE, GWENOLA
; APPLICANT: TONNEL, ANDRE BERNARD
; APPLICANT: MOLLET, SOPHIE
; TITLE OF INVENTION: PROTEINS AND PEPTIDES DERIVED FROM PROTEIN ESM-1 AND
; TITLE OF INVENTION: THEIR USES IN THE TREATMENT AND DIAGNOSIS OF DISEASES
; TITLE OF INVENTION: LINKED TO LEUCOCYTE MIGRATION
; FILE REFERENCE: 8425/P-61263US2
; CURRENT APPLICATION NUMBER: US/09/706,722A
; CURRENT FILING DATE: 2000-11-07
; PRIOR APPLICATION NUMBER: 09/102,909
; PRIOR FILING DATE: 1998-06-23
; PRIOR APPLICATION NUMBER: 60/050,614
; PRIOR FILING DATE: 1997-06-24
; NUMBER OF SEQ ID NOS: 10
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
; LENGTH: 184
; TYPE: PRF
; ORGANISM: Homo sapiens
US-09-706-722A-2

```

Query Match	67.3%	Score 35;	DB 2;	Length 184;
Best Local Similarity	58.3%	Pred. No. 1.8e+02;		
Matches 7; Conservative	1;	Mismatches 0;	Indels 4;	Gaps 1

```
QY      2 VCD---KCLKF 9
      :|||
Db      121 ICDRGTKCLKF 132
```

```

RESULT 42
US-09-949-016-6782
; Sequence 6782, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001037
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498

```

```

# PRIOR FILING DATE: 2000-09-08
# NUMBER OF SEQ ID NOS: 207012
# SOFTWARE: FastSeq for Windows Version 4.0
# SEQ ID NO: 6782
# LENGTH: 184
# TYPE: PRT
# ORGANISM: Human
US-09-949-016-6782

```

Query Match	67.3%	Score 35	DB 2	Length 184
Best Local Similarity	58.3%	Pred. No.	1	8e+02
Matches	7	Conservative	1	Mismatches 0
				Indels 4
				Gaps 1

```
QY      2 VCD---KCLKF 9
          :|||
Db      121 ICDRGTKCLKF 132
```

```

1      RESULT 43 14388-2
2      PCT-US94-14388-2
3      Sequence 2, Application PC/TUS9414388
4      GENERAL INFORMATION:
5      APPLICANT: HASTINGS, ET AL.
6      TITLE OF INVENTION: Human Vascular IBP-Like Growth Factor
7      NUMBER OF SEQUENCES: 2
8      CORRESPONDENCE ADDRESS:
9      ADDRESSEE: CARELLA, BYRNE, BAIN, GILFILLAN,
10     ADDRESSEE: CECCHI, STEWART & OLSTEIN
11     STREET: 6 BECKER FARM ROAD
12     CITY: ROSELAND
13     STATE: NEW JERSEY
14     COUNTRY: USA
15     ZIP: 07068
16     COMPUTER READABLE FORM:
17     MEDIUM TYPE: 3.5 INCH DISKETTE
18     COMPUTER: IBM PS/2
19     OPERATING SYSTEM: MS-DOS
20     SOFTWARE: WORD PERFECT 5.1
21     CURRENT APPLICATION DATA:
22     APPLICATION NUMBER: PCT/US94/14388
23     FILING DATE: Concurrently
24     CLASSIFICATION:
25     PRIOR APPLICATION DATA:
26     APPLICATION NUMBER:
27     FILING DATE:
28     ATTORNEY/AGENT INFORMATION:
29     NAME: FERRARO, GREGORY D.
30     REGISTRATION NUMBER: 36,134
31     REFERENCE/DOCKET NUMBER: 325800-219
32     TELECOMMUNICATION INFORMATION:
33     TELEPHONE: 201-994-1700
34     TELEFAX: 201-994-1744
35     INFORMATION FOR SEQ ID NO: 2:
36     SEQUENCE CHARACTERISTICS:
37     LENGTH: 184 AMINO ACIDS
38     TYPE: AMINO ACID
39     STRANDEDNESS:
40     TOPOLOGY: LINEAR
41     MOLECULE TYPE: PROTEIN
42     PCT-US94-14388-2

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Query Match	67.3%	Score 35	DB 4	Length 184
Best Local	58.3%	Pred. No.	1.8e+02	
Matches	7	Mismatches	0	Indels 4
				Gaps 1

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QY      2 VCD---KCLKF 9
          :|||
Db      121 ICDRGTKCLKF 132
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RESULT 44
US-09-949-016-10546
; Sequence 10546, Application US/09949016

Patent No. 6812339
GENERAL INFORMATION:
APPLICANT: VENTER, J. Craig et al.
TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
FILE REFERENCE: C1001307
CURRENT APPLICATION NUMBER: US/09/949,016
CURRENT FILING DATE: 2000-04-14
PRIOR APPLICATION NUMBER: 60/241,755
PRIOR FILING DATE: 2000-10-20
PRIOR APPLICATION NUMBER: 60/237,768
PRIOR FILING DATE: 2000-10-03
PRIOR APPLICATION NUMBER: 60/231,498
PRIOR FILING DATE: 2000-09-08
NUMBER OF SEQ ID NOS: 207012
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 10546
LENGTH: 202
TYPE: PRT
ORGANISM: Human
US-09-949-016-10546

Query Match
Best Local Similarity 67.3%; Score 35; DB 2; Length 202;
Pred. No. 1.9e+02;
Matches 7; Conservative 1; Mismatches 0; Indels 4; Gaps 1;

QY 2 VCDKCKLP 9
DB 139 ICDRGTKCKLP 150

RESULT 45
US-09-047-026A-23
Sequence 23, Application US/09047026A
Patent No. 5989897
GENERAL INFORMATION:
APPLICANT: Pillus, Lorraine
APPLICANT: Clarke, Astrid
APPLICANT: Lowell, Joanna
APPLICANT: Jacobson, Sandra
APPLICANT: Reifanyder, Cheryl
TITLE OF INVENTION: Yeast Silencing Genes, Proteins and
METHODS
TITLE OF INVENTION: Metcote
NUMBER OF SEQUENCES: 25
CORRESPONDENCE ADDRESS:
ADDRESSEE: Greenlee, Winner and Sullivan, P.C.
STREET: 5370 Manhattan Circle, Suite 201
CITY: Boulder
STATE: Colorado
COUNTRY: US
ZIP: 80303
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/047,026A
FILING DATE: 24-MAR-1998
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 60/042,375
FILING DATE: 24-MAR-1997
ATTORNEY/AGENT INFORMATION:
NAME: Parber, Donna M.
REGISTRATION NUMBER: 33,878
REFERENCE/DOCKET NUMBER: 1-97
TELECOMMUNICATION INFORMATION:
TELEPHONE: (303) 499-8080
TELEFAX: (303) 499-8089
INFORMATION FOR SEQ ID NO: 23:
SEQUENCE CHARACTERISTICS:
LENGTH: 308 amino acids

TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: unknown
MOLECULE TYPE: peptide
HYPOTHETICAL: YES
US-09-047-026A-23

Query Match
Best Local Similarity 67.3%; Score 35; DB 1; Length 308;
Pred. No. 2.8e+02;
Matches 4; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 2 VCDKCKLP 9
DB 63 ICBSCKLP 70

RESULT 46
US-09-248-796A-18530
Sequence 18530, Application US/09248796A
Patent No. 6747137
GENERAL INFORMATION:
APPLICANT: Keith Weinstein et al
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDA ALBICAN
TITLE OF INVENTION: FOR DIAGNOSTICS AND THERAPEUTICS
FILE REFERENCE: 107196.132
CURRENT APPLICATION NUMBER: US/09/248,796A
CURRENT FILING DATE: 1999-02-12
PRIOR APPLICATION NUMBER: US 60/074,725
PRIOR FILING DATE: 1998-02-13
PRIOR APPLICATION NUMBER: US 60/096,409
PRIOR FILING DATE: 1998-08-13
NUMBER OF SEQ ID NOS: 28208
SEQ ID NO 18530
LENGTH: 352
TYPE: PRT
ORGANISM: Candida albicans
US-09-248-796A-18530

Query Match
Best Local Similarity 67.3%; Score 35; DB 2; Length 352;
Pred. No. 3.2e+02;
Matches 5; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 1 AVCDKCKLP 9
DB 180 ATCDACVER 188

RESULT 47
US-09-252-991A-19705
Sequence 19705, Application US/09252991A
Patent No. 6551795
GENERAL INFORMATION:
APPLICANT: Marc J. Rubenfield et al.
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
FILE REFERENCE: 107196.136
CURRENT APPLICATION NUMBER: US/09/252,991A
CURRENT FILING DATE: 1999-02-18
PRIOR APPLICATION NUMBER: US 60/074,788
PRIOR FILING DATE: 1998-02-18
PRIOR APPLICATION NUMBER: US 60/094,190
PRIOR FILING DATE: 1998-07-27
NUMBER OF SEQ ID NOS: 33142
SEQ ID NO 19705
LENGTH: 377
TYPE: PRT
ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-19705

Query Match
Best Local Similarity 67.3%; Score 35; DB 2; Length 377;
Pred. No. 3.4e+02;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 AVCDKCLKF 9
|||:|
Db 150 AVCEPCLXF 158

RESULT 48
US-08-872-855-10
; Sequence 10, Application US/08872855
; Patent No. 6121045
; GENERAL INFORMATION:
; APPLICANT: McCarthy, Sean
; TITLE OF INVENTION: NOVEL HUMAN DELTA3 COMPOSITIONS AND
; TITLE OF INVENTION: THERAPEUTIC USES THEREFOR
; NUMBER OF SEQUENCES: 23
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: FOLEY, HOAG & BLIOT LLP
; STREET: One Post Office Square
; CITY: Boston
; STATE: MA
; COUNTRY: USA
; ZIP: 02109-2170
; COMPUTER READABLE FORM:
; MEDIUM TYPE: floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/872,855
; FILING DATE: 11-JUN-1997
; CLASSIFICATION: 514
; ATTORNEY/AGENT INFORMATION:
; NAME: Arnold, Beth E.
; REGISTRATION NUMBER: 35,430
; REFERENCE/DOCKET NUMBER: MAH-003.02
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 617-832-1000
; TELEFAX: 617-832-7000
; INFORMATION FOR SEQ ID NO: 10:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 642 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-872-855-10

Query Match 67.3%; Score 35; DB 2; Length 642;
Best Local Similarity 50.0%; Pred. No. 5.5e+02;
Matches 4; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY 2 VCDKCLKF 9
|||:|
Db 233 LCDECLRY 240

RESULT 49
US-09-252-991A-20327
; Sequence 20327, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfeld et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 107136.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 20327

; LENGTH: 921
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
; US-09-252-991A-20327

Query Match 67.3%; Score 35; DB 2; Length 921;
Best Local Similarity 66.7%; Pred. No. 7.6e+02;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 AVCDKCLKF 9
|||:|
Db 175 AVDRCLQF 183

RESULT 50
US-08-227-536-2
; Sequence 2, Application US/08227536
; Patent No. 5658784
; GENERAL INFORMATION:
; APPLICANT: Eckner, Richard
; APPLICANT: Ewen, Mark
; TITLE OF INVENTION: LIVINGSTON, David
; TITLE OF INVENTION: NUCLEIC ACID, ENCODING TRANSCRIPTION
; TITLE OF INVENTION: FACTOR P300 AND USES OF P300
; NUMBER OF SEQUENCES: 13
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Weingarten, Schurgin, Gagnebin & Hayes
; STREET: Ten Post Office Square
; CITY: Boston
; STATE: MA
; COUNTRY: USA
; ZIP: 02109
; COMPUTER READABLE FORM:
; MEDIUM TYPE: floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/227,536
; FILING DATE: 14-APR-1994
; CLASSIFICATION: 436
; ATTORNEY/AGENT INFORMATION:
; NAME: Williams Ph.D., Kathleen A.
; REGISTRATION NUMBER: 34,380
; REFERENCE/DOCKET NUMBER: DPCT-308XX
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 451-0313
; TELEFAX: (617) 542-2290
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2414 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-227-536-2

Query Match 67.3%; Score 35; DB 1; Length 2414;
Best Local Similarity 85.7%; Pred. No. 1.8e+03;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2 VCDKCLK 8
|||:|
Db 1271 VCDGCLK 1277

Search completed: May 5, 2006, 06:23:43
Job time : 22.9 secs

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OM protein - protein search, using SW model

Run on: May 5, 2006, 08:39:55 ; Search time 56.3 Seconds
(without alignments)
66.793 Million cell updates/sec

Title: US-08-170-344-46

Perfect score: 52

Sequence: 1 AVCDKCLKR 9

Scoring table: BLOSUM62

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Searched: 1867569 seqs, 417829326 residues

Total number of hits satisfying chosen parameters: 1867569

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 1000 summaries

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4: /cgn2_6/ptodata/1/pubppaa/US10_PUBCOMB.pep:*
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Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	52	100.0	20	4	US-10-476-570-11
2	52	100.0	22	4	US-10-612-818-4
3	52	100.0	22	5	US-10-995-902-4
4	52	100.0	151	4	US-10-177-390-6
5	52	100.0	151	5	US-10-484-063-20
6	52	100.0	151	5	US-10-484-063-27
7	52	100.0	158	5	US-10-858-384-2
8	52	100.0	158	5	US-10-367-057-16
9	52	100.0	158	6	US-11-021-949-13
10	52	100.0	171	4	US-10-472-724-2
11	52	100.0	243	6	US-11-072-288-1
12	52	100.0	266	3	US-09-367-309A-1
13	52	100.0	273	4	US-10-000-903-4
14	52	100.0	273	5	US-10-899-771-4
15	52	100.0	292	4	US-10-000-903-10
16	52	100.0	292	5	US-10-899-771-10
17	52	100.0	371	4	US-10-000-903-6
18	52	100.0	371	5	US-10-899-771-6
19	52	100.0	390	4	US-10-000-903-14
20	52	100.0	390	5	US-10-899-771-14
21	42	80.8	241	4	US-10-425-114-53267
22	42	80.8	256	4	US-10-424-599-197309
23	41	78.8	9	5	US-10-484-063-6
24	41	78.8	10	2	US-08-344-824-237
25	40	76.9	158	6	US-11-021-949-361
26	39	75.0	149	6	US-11-021-949-14
27	39	75.0	152	4	US-10-424-599-199555

28	39	75.0	228	4	US-10-424-599-242913	Sequence 242913,
29	39	75.0	604	4	US-10-205-342-1	Sequence 1, Appl1
30	39	75.0	604	5	US-10-732-923-1343	Sequence 13443, A
31	39	75.0	606	4	US-10-440-341-5	Sequence 5, Appl1
32	39	75.0	606	4	US-10-394-322A-53	Sequence 53, Appl1
33	39	75.0	606	4	US-10-311-527-4	Sequence 4, Appl1
34	39	75.0	606	5	US-10-473-127-1815	Sequence 1815, Ap
35	39	75.0	606	5	US-10-473-127-1816	Sequence 1816, Ap
36	39	75.0	606	5	US-10-473-127-1818	Sequence 1818, Ap
37	39	75.0	606	5	US-10-473-127-1819	Sequence 1819, Ap
38	39	75.0	606	5	US-10-473-127-1820	Sequence 1820, Ap
39	39	75.0	606	5	US-10-473-127-1821	Sequence 1821, Ap
40	39	75.0	606	5	US-10-732-923-13689	Sequence 13689, A
41	39	75.0	606	5	US-10-491-545A-2	Sequence 2, Appl1
42	39	75.0	606	5	US-10-491-545A-4	Sequence 4, Appl1
43	39	75.0	609	5	US-10-473-127-1817	Sequence 1817, Ap
44	39	75.0	609	5	US-10-473-127-1818	Sequence 1822, Ap
45	38	73.1	149	6	US-11-021-949-18	Sequence 18, Appl1
46	38	73.1	198	5	US-10-450-763-42145	Sequence 42145, A
47	38	73.1	1079	6	US-11-097-143-35724	Sequence 35724, A
48	38	73.1	2710	6	US-10-153-273-12	Sequence 12, Appl1
49	37.5	72.1	53	4	US-10-425-115-272652	Sequence 272652,
50	37.5	72.1	139	4	US-10-437-963-121605	Sequence 121605,
51	37.5	72.1	139	4	US-10-767-701-41080	Sequence 41080, A
52	37.5	72.1	139	4	US-10-425-115-199043	Sequence 199043,
53	37.5	72.1	144	4	US-10-425-114-61603	Sequence 61603, A
54	37.5	72.1	177	4	US-10-425-114-40469	Sequence 40469, A
55	37.5	72.1	193	4	US-10-425-115-202932	Sequence 202932,
56	37	71.2	9	2	US-08-344-824-346	Sequence 346, App
57	37	71.2	2429	5	US-10-732-923-18427	Sequence 18427, A
58	37	71.2	2440	5	US-10-732-923-18452	Sequence 18452, A
59	37	71.2	2441	4	US-10-109-886-8	Sequence 8, Appl1
60	37	71.2	2441	4	US-10-628-957-2	Sequence 2, Appl1
61	37	71.2	2441	5	US-10-473-127-643	Sequence 643, App
62	37	71.2	2441	5	US-10-732-923-18428	Sequence 18428, A
63	37	71.2	2441	5	US-10-732-923-18429	Sequence 18429, A
64	37	71.2	2442	4	US-10-109-886-10	Sequence 10, Appl1
65	37	71.2	2442	5	US-10-473-127-631	Sequence 631, App
66	37	71.2	2442	5	US-10-473-127-633	Sequence 633, App
67	37	71.2	2442	5	US-10-473-127-645	Sequence 645, App
68	37	71.2	2442	5	US-10-473-127-647	Sequence 647, App
69	37	71.2	2442	5	US-10-732-923-18450	Sequence 18450, A
70	37	71.2	2442	5	US-10-732-923-18451	Sequence 18451, A
71	37	71.2	2442	5	US-10-840-060-92	Sequence 92, Appl1
72	37	71.2	3190	5	US-10-732-923-18448	Sequence 18448, A
73	37	71.2	3275	5	US-10-840-060-90	Sequence 90, Appl1
74	37	71.2	3276	5	US-11-097-143-38103	Sequence 38103, A
75	37	71.2	47	4	US-10-732-923-18447	Sequence 18447, A
76	36	69.2	96	4	US-09-864-761-40544	Sequence 40544, A
77	36	69.2	111	4	US-10-424-599-151922	Sequence 151922,
78	36	69.2	181	6	US-10-767-701-33165	Sequence 33165, A
79	36	69.2	148	6	US-11-021-949-19	Sequence 19, Appl1
80	36	69.2	264	4	US-10-220-120-302	Sequence 302, App
81	36	69.2	264	4	US-10-363-829-384	Sequence 384, App
82	36	69.2	264	4	US-10-363-829-479	Sequence 479, App
83	36	69.2	286	3	US-09-833-245-2052	Sequence 2052, Ap
84	36	69.2	286	4	US-10-266-829-58	Sequence 58, Appl1
85	36	69.2	291	5	US-10-878-523-58	Sequence 58, Appl1
86	36	69.2	291	5	US-10-450-763-40097	Sequence 40097, A
87	36	69.2	292	4	US-10-424-599-205655	Sequence 205655,
88	36	69.2	298	3	US-09-833-245-2051	Sequence 2051, Ap
89	36	69.2	298	4	US-10-266-829-83	Sequence 83, Appl1
90	36	69.2	298	5	US-10-878-523-83	Sequence 83, Appl1
91	36	69.2	306	4	US-10-264-049-23306	Sequence 2306, Ap
92	36	69.2	309	4	US-10-266-829-102	Sequence 102, App
93	36	69.2	309	5	US-10-878-523-102	Sequence 102, App
94	36	69.2	367	4	US-10-266-829-105	Sequence 105, App
95	36	69.2	367	5	US-10-878-523-105	Sequence 105, App
96	36	69.2	409	4	US-10-369-493-822118	Sequence 22118, A
97	36	69.2	451	4	US-10-424-599-246501	Sequence 246501,
98	36	69.2	610	4	US-10-425-114-18721	Sequence 36721, A
99	36	69.2	610	4	US-10-094-749-2604	Sequence 2604, Ap
100	36	69.2	610	4	US-10-108-260A-3772	Sequence 3772, Ap

101	36	69.2	738	4	US-10-408-765A-740	Sequence 740, App	174	34	65.4	517	6	US-11-097-143-11799	Sequence 11799, A
102	36	69.2	1070	5	US-10-947-052-5	Sequence 5, Appl1	175	34	65.4	552	4	US-10-408-765A-368	Sequence 368, Ap
103	36	69.2	1127	4	US-10-437-963-11899	Sequence 11899,	176	34	65.4	554	4	US-10-221-662-8A	Sequence 81, Appl
104	36	69.2	1334	4	US-10-437-963-106207	Sequence 106207,	177	34	65.4	572	4	US-10-437-963-15379	Sequence 16379,
105	36	69.2	1676	4	US-10-437-963-155647	Sequence 155647,	178	34	65.4	581	4	US-10-437-963-131067	Sequence 131067,
106	36	69.2	1860	4	US-10-437-963-106205	Sequence 106205,	179	34	65.4	606	4	US-10-425-115-259891	Sequence 259891,
107	36	69.2	1933	4	US-10-437-963-106209	Sequence 106209,	180	34	65.4	622	4	US-10-425-115-208737	Sequence 208737,
108	36	69.2	2231	4	US-10-369-493-1830	Sequence 1830, Ap	181	34	65.4	628	4	US-10-425-115-60118	Sequence 60118, A
109	36	69.2	2531	4	US-10-732-923-18433	Sequence 18433, A	182	34	65.4	632	4	US-10-437-963-155187	Sequence 155187,
110	35	67.3	84	4	US-10-425-115-205396	Sequence 205396,	183	34	65.4	640	4	US-10-080-334-116	Sequence 116, App
111	35	67.3	85	4	US-10-424-599-217954	Sequence 217954,	184	34	65.4	646	4	US-10-425-114-66186	Sequence 68186, A
112	35	67.3	96	4	US-10-425-115-187724	Sequence 187724,	185	34	65.4	667	5	US-10-723-860-4278	Sequence 4278, Ap
113	35	67.3	151	6	US-11-021-949-25	Sequence 25,	186	34	65.4	692	4	US-10-211-462-227	Sequence 227, Ap
114	35	67.3	158	6	US-11-021-949-30	Sequence 30, Appl	187	34	65.4	736	4	US-10-149-310-92	Sequence 92, Appl
115	35	67.3	162	6	US-11-021-949-31	Sequence 31, Appl	188	34	65.4	742	5	US-10-741-849-7774	Sequence 7774, Ap
116	35	67.3	165	4	US-10-611-527-19	Sequence 19, Appl	189	34	65.4	805	4	US-10-080-334-115	Sequence 115, App
117	35	67.3	184	3	US-09-037-460-2	Sequence 2, Appl1	190	34	65.4	806	4	US-10-080-334-113	Sequence 113, App
118	35	67.3	184	3	US-09-853-625B-18	Sequence 18, Appl	191	34	65.4	806	4	US-10-080-334-114	Sequence 114, App
119	35	67.3	184	4	US-10-102-524-1848	Sequence 1848, Ap	192	34	65.4	827	4	US-10-470-991-3	Sequence 3, Appl1
120	35	67.3	184	4	US-10-021-660-124	Sequence 124, App	193	34	65.4	827	6	US-11-097-143-5541	Sequence 5541, Ap
121	35	67.3	184	4	US-10-295-027-30	Sequence 30, Appl	194	34	65.4	936	5	US-10-450-763-47124	Sequence 47124, A
122	35	67.3	184	4	US-10-211-462-85	Sequence 85, Appl	195	34	65.4	1209	6	US-11-097-143-4206	Sequence 4206, Ap
123	35	67.3	184	4	US-10-764-425-149	Sequence 149, Appl	196	34	65.4	1572	4	US-10-037-182-20	Sequence 20, Appl
124	35	67.3	184	4	US-10-611-527-2	Sequence 2, Appl1	197	34	65.4	1576	4	US-10-037-182-16	Sequence 16, Appl
125	35	67.3	184	5	US-10-416-203A-1	Sequence 1, Appl1	198	34	65.4	1605	4	US-10-037-182-18	Sequence 18, Appl
126	35	67.3	184	5	US-10-951-866-2	Sequence 2, Appl1	199	34	65.4	1607	3	US-09-938-275-11	Sequence 11, Appl
127	35	67.3	188	4	US-10-424-599-252455	Sequence 252455,	200	34	65.4	1609	3	US-09-938-275-11	Sequence 11, Appl
128	35	67.3	410	4	US-10-669-493-5846	Sequence 5846, Ap	201	34	65.4	1609	4	US-10-037-182-14	Sequence 14, Appl
129	35	67.3	412	4	US-10-669-493-5649	Sequence 5649, Ap	202	34	65.4	1609	4	US-10-299-058-12	Sequence 12, Appl
130	35	67.3	423	5	US-10-450-763-58727	Sequence 58727, A	203	34	65.4	1609	4	US-10-372-683-36	Sequence 36, Appl
131	35	67.3	428	4	US-10-450-566-2022	Sequence 2022, Ap	204	34	65.4	1609	4	US-10-648-593-146	Sequence 146, App
132	35	67.3	439	5	US-10-450-763-34594	Sequence 34594, A	205	34	65.4	1609	5	US-10-852-335A-185	Sequence 185, App
133	35	67.3	439	5	US-10-450-763-48356	Sequence 48356, A	206	33	65.5	36	4	US-10-424-599-184468	Sequence 184468
134	35	67.3	499	5	US-10-450-763-50013	Sequence 50013, A	207	33	65.5	43	5	US-10-721-793-222	Sequence 222, App
135	35	67.3	642	4	US-10-417-719-10	Sequence 10, Appl	208	33	65.5	43	5	US-10-721-793-224	Sequence 224, App
136	35	67.3	725	5	US-10-951-163-77	Sequence 77, Appl	209	33	65.5	51	4	US-10-425-115-229870	Sequence 229870,
137	35	67.3	760	4	US-10-094-749-2439	Sequence 2439, Ap	210	33	65.5	64	4	US-10-424-599-19916	Sequence 19916,
138	35	67.3	760	4	US-10-408-765A-2499	Sequence 2499, Ap	211	33	65.5	70	4	US-10-425-115-286774	Sequence 286774,
139	35	67.3	993	4	US-10-437-963-152983	Sequence 152983,	212	33	65.5	78	4	US-10-425-115-34443	Sequence 194443,
140	35	67.3	1605	5	US-10-732-923-18432	Sequence 18432, A	213	33	65.5	79	4	US-10-425-115-340113	Sequence 340113,
141	35	67.3	2156	5	US-10-732-923-18431	Sequence 18431, A	214	33	65.5	85	3	US-09-919-901-6	Sequence 6, Appl1
142	35	67.3	2414	5	US-10-473-127-634	Sequence 634, App	215	33	65.5	85	3	US-09-919-901-13	Sequence 13, Appl
143	35	67.3	2414	5	US-10-473-127-641	Sequence 641, App	216	33	65.5	85	4	US-09-919-901-20	Sequence 20, Appl
144	35	67.3	2414	5	US-10-473-127-642	Sequence 642, App	217	33	65.5	85	4	US-10-191-966-6	Sequence 6, Appl1
145	35	67.3	2414	5	US-10-473-127-644	Sequence 644, App	218	33	65.5	85	4	US-10-191-966-13	Sequence 13, Appl
146	35	67.3	2414	5	US-10-773-127-646	Sequence 646, App	219	33	65.5	85	4	US-10-191-966-20	Sequence 20, Appl
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158	34	65.4	175	4	US-10-149-310-58	Sequence 2942, Ap	231	33	65.5	158	5	US-10-800-023-27	Sequence 27, Appl
159	34	65.4	185	4	US-09-764-864-854	Sequence 854, App	232	33	65.5	158	5	US-11-021-949-29	Sequence 29, Appl
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259	33	63.5	311	3	US-10-739-930-5798	Sequence 5798, Ap	333	33	63.5	814	3	US-10-156-239-52	Sequence 52, Appl
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265	33	63.5	366	4	US-10-425-567A-10	Sequence 10, Appl	339	33	63.5	1036	4	US-10-631-467-699	Sequence 699, App
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267	33	63.5	383	4	US-10-925-095-433	Sequence 433, App	341	33	63.5	1052	5	US-10-631-467-760	Sequence 760, App
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309	33	63.5	648	4	US-10-408-765A-490	Sequence 490, App	383	33	63.5	53	3	US-09-863-332-257	Sequence 257, App
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408	32	61.5	154	4	US-10-437-963-120467	Sequence 120467,	481	32	61.5	330	4	US-10-205-194-142	Sequence 142, App
409	32	61.5	154	4	US-10-425-115-338573	Sequence 338573,	482	32	61.5	330	4	US-10-437-963-157042	Sequence 157042,
410	32	61.5	155	4	US-10-767-701-57197	Sequence 57197, A	483	32	61.5	331	5	US-10-846-989-24	Sequence 24, Appl
411	32	61.5	162	3	US-09-798-789-11	Sequence 11, Appl	484	32	61.5	331	5	US-10-845-834A-24	Sequence 24, Appl
412	32	61.5	162	4	US-10-218-102-421	Sequence 421, App	485	32	61.5	332	5	US-10-958-784-11	Sequence 241165,
413	32	61.5	165	4	US-10-106-698-6762	Sequence 6762, App	486	32	61.5	343	4	US-10-106-698-6232	Sequence 6232, Ap
414	32	61.5	165	4	US-10-425-115-244289	Sequence 244289,	487	32	61.5	345	4	US-10-106-698-6232	Sequence 6232, Ap
415	32	61.5	165	5	US-10-473-127-1142	Sequence 1142, Ap	488	32	61.5	368	4	US-10-425-114-50824	Sequence 50824, A
416	32	61.5	175	4	US-10-282-122A-52440	Sequence 52440, A	489	32	61.5	369	5	US-10-845-989-29	Sequence 29, Appl
417	32	61.5	175	4	US-10-425-114-60897	Sequence 60897, A	490	32	61.5	369	5	US-10-845-989-29	Sequence 29, Appl
418	32	61.5	183	3	US-09-764-864-1520	Sequence 1520, Ap	491	32	61.5	372	4	US-10-437-963-198696	Sequence 198696,
419	32	61.5	184	3	US-10-437-963-109118	Sequence 109118,	492	32	61.5	381	5	US-10-874-706-8	Sequence 8, Appl1
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421	32	61.5	187	4	US-10-425-115-333681	Sequence 333681,	494	32	61.5	383	3	US-10-276-774-2331	Sequence 2331, Ap
422	32	61.5	192	3	US-09-908-322-65	Sequence 65, Appl	495	32	61.5	397	3	US-09-919-039-178	Sequence 178, App
423	32	61.5	192	3	US-09-783-931-65	Sequence 65, Appl	496	32	61.5	397	5	US-10-473-127-1138	Sequence 1138, Ap
424	32	61.5	192	5	US-10-877-563-17	Sequence 17, Appl	497	32	61.5	397	5	US-10-473-127-1139	Sequence 1139, Ap
425	32	61.5	196	4	US-10-425-115-333685	Sequence 333685,	498	32	61.5	397	5	US-10-473-127-1140	Sequence 1140, Ap
426	32	61.5	199	4	US-10-029-386-31879	Sequence 31879, A	499	32	61.5	397	5	US-10-473-127-1143	Sequence 1143, Ap
427	32	61.5	201	4	US-10-767-701-38592	Sequence 38592, A	500	32	61.5	397	5	US-10-473-127-1144	Sequence 1144, Ap
428	32	61.5	208	4	US-10-437-963-184293	Sequence 184293,	501	32	61.5	397	5	US-10-473-127-1145	Sequence 1145, Ap
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431	32	61.5	236	3	US-09-999-121-5	Sequence 5, Appl1	504	32	61.5	397	5	US-10-631-467-559	Sequence 1386, Ap
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437	32	61.5	236	5	US-10-473-127-2004	Sequence 2004, Ap	510	32	61.5	409	4	US-10-425-114-37429	Sequence 37429, A
438	32	61.5	236	5	US-10-473-127-2006	Sequence 2006, Ap	511	32	61.5	411	4	US-10-389-566-1809	Sequence 1809, Ap
439	32	61.5	236	5	US-10-473-127-2008	Sequence 2008, Ap	512	32	61.5	419	4	US-10-389-566-2092	Sequence 2092, Ap
440	32	61.5	236	5	US-10-473-127-2011	Sequence 2011, Ap	513	32	61.5	419	4	US-10-282-122A-55062	Sequence 55062, A
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444	32	61.5	236	5	US-10-859-700-19	Sequence 19, Appl	517	32	61.5	427	4	US-10-389-566-1817	Sequence 1817, Ap
445	32	61.5	236	5	US-10-859-700-20	Sequence 20, Appl	518	32	61.5	427	4	US-11-097-143-40869	Sequence 40869, A
446	32	61.5	236	5	US-10-859-700-21	Sequence 21, Appl	519	32	61.5	429	4	US-11-097-143-40869	Sequence 1026, Ap
447	32	61.5	236	5	US-10-859-700-16	Sequence 16, Appl	520	32	61.5	431	4	US-10-389-566-1026	Sequence 1026, Ap
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451	32	61.5	237	4	US-10-425-115-309303	Sequence 309303,	524	32	61.5	431	5	US-10-680-287A-669	Sequence 669, App
452	32	61.5	246	6	US-10-128-714-8441	Sequence 8441, Ap	525	32	61.5	438	6	US-10-477-173-669	Sequence 669, App
453	32	61.5	246	6	US-11-097-143-25371	Sequence 25371, A	526	32	61.5	438	6	US-11-097-143-15642	Sequence 15642, A
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455	32	61.5	252	4	US-10-264-049-4181	Sequence 4191, Ap	528	32	61.5	450	4	US-10-425-115-273156	Sequence 273156,
456	32	61.5	252	4	US-10-788-792-159	Sequence 159, App	529	32	61.5	452	4	US-10-032-588-7361	Sequence 7361, Ap
457	32	61.5	256	4	US-10-289-762-910	Sequence 910, App	530	32	61.5	455	4	US-10-425-599-273157	Sequence 273197,
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542	32	61.5	486	4	US-10-425-114-36944	Sequence 36944, A	615	32	61.5	721	3	US-09-783-931-5	Sequence 5, Appl1
543	32	61.5	489	4	US-10-424-599-254242	Sequence 254242,	616	32	61.5	721	4	US-10-417-719-7	Sequence 7, Appl1
544	32	61.5	491	4	US-10-359-493-5647	Sequence 5647, Ap	617	32	61.5	721	4	US-10-042-865-109	Sequence 109, App
545	32	61.5	491	4	US-10-425-115-308737	Sequence 308737,	618	32	61.5	722	5	US-10-877-563-12	Sequence 12, Appl1
546	32	61.5	491	5	US-10-965-898-19	Sequence 19, Appl	619	32	61.5	722	3	US-09-783-931-12	Sequence 12, Appl
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548	32	61.5	500	4	US-10-425-115-270804	Sequence 270804,	621	32	61.5	722	4	US-10-731-741-4	Sequence 4, Appl1
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552	32	61.5	511	4	US-10-424-599-253543	Sequence 253543,	625	32	61.5	723	4	US-10-140-808-346	Sequence 346, App
553	32	61.5	513	5	US-10-437-963-153107	Sequence 153107,	626	32	61.5	723	4	US-10-140-808-346	Sequence 346, App
554	32	61.5	517	3	US-10-739-930-10627	Sequence 10627, A	627	32	61.5	723	4	US-10-121-049-346	Sequence 346, App
555	32	61.5	517	3	US-09-888-615-76	Sequence 76, Appl	628	32	61.5	723	4	US-10-123-904-346	Sequence 346, App
556	32	61.5	517	6	US-10-275-505-10	Sequence 10, Appl	629	32	61.5	723	4	US-10-140-470-346	Sequence 346, App
557	32	61.5	517	6	US-11-140-224-10	Sequence 10, Appl	630	32	61.5	723	4	US-10-175-746-346	Sequence 346, App
558	32	61.5	520	6	US-09-995-593A-3	Sequence 3, Appl1	631	32	61.5	723	4	US-10-176-918-346	Sequence 346, App
559	32	61.5	520	6	US-11-051-631-3	Sequence 3, Appl1	632	32	61.5	723	4	US-10-137-821-346	Sequence 346, App
560	32	61.5	520	6	US-11-043-357-3	Sequence 3, Appl1	633	32	61.5	723	4	US-10-137-821-346	Sequence 346, App
561	32	61.5	526	4	US-10-424-599-228834	Sequence 228834,	634	32	61.5	723	4	US-10-142-419-346	Sequence 346, App
562	32	61.5	527	4	US-10-425-114-53815	Sequence 53815, A	635	32	61.5	723	4	US-10-142-419-346	Sequence 346, App
563	32	61.5	531	4	US-10-437-963-19188	Sequence 19188,	636	32	61.5	723	4	US-10-142-431-346	Sequence 346, App
564	32	61.5	532	4	US-10-425-115-358965	Sequence 358965,	637	32	61.5	723	4	US-10-142-431-346	Sequence 346, App
565	32	61.5	536	4	US-10-408-765A-1902	Sequence 1902, Ap	638	32	61.5	723	4	US-10-142-419-346	Sequence 346, App
566	32	61.5	537	4	US-10-437-963-441342	Sequence 141342,	639	32	61.5	723	4	US-10-241-476-27	Sequence 27, Appl
567	32	61.5	538	3	US-09-779-307-2	Sequence 2, Appl1	640	32	61.5	723	4	US-10-123-862-346	Sequence 346, App
568	32	61.5	538	3	US-09-779-307-11	Sequence 11, Appl	641	32	61.5	723	4	US-10-123-862-346	Sequence 346, App
569	32	61.5	538	4	US-10-399-531-2	Sequence 2, Appl1	642	32	61.5	723	4	US-10-142-423-346	Sequence 346, App
570	32	61.5	538	4	US-10-437-963-151317	Sequence 151317,	643	32	61.5	723	4	US-10-121-050-346	Sequence 346, App
571	32	61.5	538	4	US-10-425-115-296368	Sequence 296368,	644	32	61.5	723	4	US-10-141-755-346	Sequence 346, App
572	32	61.5	539	6	US-11-097-143-29805	Sequence 29805, A	645	32	61.5	723	4	US-10-143-032-346	Sequence 346, App
573	32	61.5	547	3	US-10-437-963-105230	Sequence 105230,	646	32	61.5	723	4	US-10-123-108-346	Sequence 346, App
574	32	61.5	547	3	US-09-779-307-12	Sequence 12, Appl	647	32	61.5	723	4	US-10-123-108-346	Sequence 346, App
575	32	61.5	547	3	US-09-779-307-13	Sequence 13, Appl	648	32	61.5	723	4	US-10-123-108-346	Sequence 346, App
576	32	61.5	556	4	US-10-425-114-64592	Sequence 64592, A	649	32	61.5	723	4	US-10-123-108-346	Sequence 346, App
577	32	61.5	559	6	US-11-097-143-1557	Sequence 1557, Ap	650	32	61.5	723	4	US-10-123-108-346	Sequence 346, App
578	32	61.5	567	5	US-10-989-891-130	Sequence 130, App	651	32	61.5	723	4	US-10-123-108-346	Sequence 346, App
579	32	61.5	578	3	US-09-908-322-13	Sequence 13, Appl	652	32	61.5	723	4	US-10-123-108-346	Sequence 346, App
580	32	61.5	578	3	US-09-783-931-13	Sequence 13, Appl	653	32	61.5	723	4	US-10-123-108-346	Sequence 346, App
581	32	61.5	581	4	US-10-425-114-9159	Sequence 49159, A	654	32	61.5	723	4	US-10-123-108-346	Sequence 346, App
582	32	61.5	583	4	US-10-416-316-2	Sequence 2, Appl1	655	32	61.5	723	4	US-10-123-108-346	Sequence 346, App
583	32	61.5	587	4	US-10-437-963-198087	Sequence 198087,	656	32	61.5	723	4	US-10-123-108-346	Sequence 346, App
584	32	61.5	590	4	US-10-282-122A-54514	Sequence 54514, A	657	32	61.5	723	4	US-10-123-108-346	Sequence 346, App
585	32	61.5	605	3	US-09-741-233A-2	Sequence 2, Appl1	658	32	61.5	723	4	US-10-123-108-346	Sequence 346, App
586	32	61.5	606	4	US-10-437-963-195106	Sequence 195106,	659	32	61.5	723	4	US-10-123-108-346	Sequence 346, App
587	32	61.5	615	4	US-10-416-316-4	Sequence 4, Appl1	660	32	61.5	723	4	US-10-123-108-346	Sequence 346, App
588	32	61.5	628	4	US-10-282-122A-61945	Sequence 61945, A	661	32	61.5	723	4	US-10-123-108-346	Sequence 346, App
589	32	61.5	630	4	US-10-408-765A-640	Sequence 640, App	662	32	61.5	723	4	US-10-123-108-346	Sequence 346, App
590	32	61.5	630	4	US-10-317-277A-168	Sequence 168, App	663	32	61.5	723	4	US-10-123-108-346	Sequence 346, App
591	32	61.5	630	5	US-10-473-127-247	Sequence 247, App	664	32	61.5	723	4	US-10-123-108-346	Sequence 346, App
592	32	61.5	630	5	US-10-473-127-248	Sequence 248, App	665	32	61.5	723	4	US-10-123-108-346	Sequence 346, App
593	32	61.5	630	5	US-10-473-127-249	Sequence 249, App	666	32	61.5	723	4	US-10-123-108-346	Sequence 346, App
594	32	61.5	636	4	US-10-381-327-7	Sequence 7, Appl1	667	32	61.5	723	4	US-10-123-108-346	Sequence 346, App
595	32	61.5	637	6	US-11-097-143-12783	Sequence 12783, A	668	32	61.5	723	4	US-10-123-108-346	Sequence 346, App
596	32	61.5	655	4	US-10-437-963-157893	Sequence 157893,	669	32	61.5	723	4	US-10-123-108-346	Sequence 346, App
597	32	61.5	676	5	US-10-473-127-717	Sequence 717, App	670	32	61.5	723	4	US-10-123-108-346	Sequence 346, App
598	32	61.5	679	5	US-10-425-115-251049	Sequence 251049,	671	32	61.5	723	4	US-10-123-108-346	Sequence 346, App
599	32	61.5	685	5	US-10-723-860-700	Sequence 700, App	672	32	61.5	723	4	US-10-123-108-346	Sequence 346, App
600	32	61.5	685	5	US-10-370-715B-96	Sequence 96, Appl	673	32	61.5	723	4	US-10-123-108-346	Sequence 346, App
601	32	61.5	685	5	US-10-756-149-4897	Sequence 4897, A	674	32	61.5	723	4	US-10-123-108-346	Sequence 346, App
602	32	61.5	685	5	US-10-450-763-48419	Sequence 48419, A	675	32	61.5	723	4	US-10-123-108-346	Sequence 346, App
603	32	61.5	697	4	US-10-437-963-152460	Sequence 152460,	676	32	61.5	723	4	US-10-123-108-346	Sequence 346, App
604	32	61.5	699	5	US-10-473-127-718	Sequence 718, App	677	32	61.5	723	4	US-10-123-108-346	Sequence 346, App
605	32	61.5	701	4	US-10-425-114-72520	Sequence 72520, A	678	32	61.5	723	4	US-10-123-108-346	Sequence 346, App
606	32	61.5	702	3	US-09-995-593A-4	Sequence 4, Appl1	679	32	61.5	723	4	US-10-123-108-346	Sequence 346, App
607	32	61.5	702	6	US-11-051-631-4	Sequence 4, Appl1	680	32	61.5	723	4	US-10-123-108-346	Sequence 346, App
608	32	61.5	702	6	US-11-043-357-4	Sequence 4, Appl1	681	32	61.5	723	4	US-10-123-108-346	Sequence 346, App
609	32	61.5	713	4	US-10-417-719-5	Sequence 5, Appl1	682	32	61.5	723	4	US-10-123-108-346	Sequence 346, App
610	32	61.5	714	4	US-10-042-865-108	Sequence 108, App	683	32	61.5	723	4	US-10-123-108-346	Sequence 346, App
611	32	61.5	715	4	US-10-369-493-1632	Sequence 1632, Ap	684	32	61.5	723	4	US-10-123-108-346	Sequence 346, App

685	32	61.5	723	4	US-10-124-813-346	Sequence 346, App	758	32	61.5	723	4	US-10-137-864A-346	Sequence 346, App
686	32	61.5	723	4	US-10-124-817-346	Sequence 346, App	759	32	61.5	723	4	US-10-137-869A-346	Sequence 346, App
687	32	61.5	723	4	US-10-125-922-346	Sequence 346, App	760	32	61.5	723	4	US-10-147-523-346	Sequence 346, App
688	32	61.5	723	4	US-10-125-924-346	Sequence 346, App	761	32	61.5	723	4	US-10-158-765-346	Sequence 346, App
689	32	61.5	723	4	US-10-140-860-346	Sequence 346, App	762	32	61.5	723	4	US-10-121-051-346	Sequence 346, App
690	32	61.5	723	4	US-10-142-417-346	Sequence 346, App	763	32	61.5	723	4	US-10-121-042-346	Sequence 346, App
691	32	61.5	723	4	US-10-147-519-346	Sequence 346, App	764	32	61.5	723	4	US-10-121-912-346	Sequence 346, App
692	32	61.5	723	4	US-10-157-782-346	Sequence 346, App	765	32	61.5	723	4	US-10-129-007-346	Sequence 346, App
693	32	61.5	723	4	US-10-152-395-346	Sequence 346, App	766	32	61.5	723	4	US-10-194-359-346	Sequence 346, App
694	32	61.5	723	4	US-10-125-926A-346	Sequence 346, App	767	32	61.5	723	4	US-10-137-866B-346	Sequence 346, App
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703	32	61.5	723	4	US-10-127-848A-346	Sequence 346, App	776	32	61.5	723	4	US-10-140-926-346	Sequence 346, App
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724	32	61.5	723	4	US-10-124-818-346	Sequence 346, App	797	32	61.5	723	4	US-10-147-501-346	Sequence 346, App
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726	32	61.5	723	4	US-10-147-492-346	Sequence 346, App	799	32	61.5	723	4	US-10-147-506-346	Sequence 346, App
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729	32	61.5	723	4	US-10-123-907-346	Sequence 346, App	802	32	61.5	723	4	US-10-147-511-346	Sequence 346, App
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738	32	61.5	723	4	US-10-127-828A-346	Sequence 346, App	811	32	61.5	723	4	US-10-140-922-346	Sequence 346, App
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837	32	61.5	723	4	US-10-142-887-346	Sequence 346, App	910	32	61.5	723	4	US-10-142-764-346	Sequence 346, App
838	32	61.5	723	4	US-10-142-888-346	Sequence 346, App	911	32	61.5	723	4	US-10-142-766-346	Sequence 346, App
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842	32	61.5	723	4	US-10-144-992-346	Sequence 346, App	915	32	61.5	723	4	US-10-146-789-346	Sequence 346, App
843	32	61.5	723	4	US-10-145-015-346	Sequence 346, App	916	32	61.5	723	4	US-10-147-498-346	Sequence 346, App
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862	32	61.5	723	4	US-10-157-783-346	Sequence 346, App	935	32	61.5	723	4	US-10-124-814-346	Sequence 346, App
863	32	61.5	723	4	US-10-157-792-346	Sequence 346, App	936	32	61.5	723	4	US-10-124-816-346	Sequence 346, App
864	32	61.5	723	4	US-10-158-462-346	Sequence 346, App	937	32	61.5	723	4	US-10-124-820-346	Sequence 346, App
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866	32	61.5	723	4	US-10-143-751-346	Sequence 346, App	939	32	61.5	723	4	US-10-125-927-346	Sequence 346, App
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871	32	61.5	723	4	US-10-145-875-346	Sequence 346, App	944	32	61.5	723	4	US-10-152-374-346	Sequence 346, App
872	32	61.5	723	4	US-10-145-877-346	Sequence 346, App	945	32	61.5	723	4	US-10-152-375-346	Sequence 346, App
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875	32	61.5	723	4	US-10-146-790-346	Sequence 346, App	948	32	61.5	723	4	US-10-152-391-346	Sequence 346, App
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883	32	61.5	723	4	US-10-147-514-346	Sequence 346, App	956	32	61.5	723	4	US-10-123-214-346	Sequence 346, App
884	32	61.5	723	4	US-10-147-524-346	Sequence 346, App	957	32	61.5	723	4	US-10-123-214-346	Sequence 346, App
885	32	61.5	723	4	US-10-152-379-346	Sequence 346, App	958	32	61.5	723	4	US-10-123-214-346	Sequence 346, App
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887	32	61.5	723	4	US-10-152-406-346	Sequence 346, App	960	32	61.5	723	4	US-10-152-385-346	Sequence 346, App
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891	32	61.5	723	4	US-10-152-382-346	Sequence 346, App	964	32	61.5	723	4	US-10-153-552-346	Sequence 346, App
892	32	61.5	723	4	US-10-152-383-346	Sequence 346, App	965	32	61.5	723	4	US-10-153-552-346	Sequence 346, App
893	32	61.5	723	4	US-10-152-383-346	Sequence 346, App	966	32	61.5	723	4	US-10-156-841-346	Sequence 346, App
894	32	61.5	723	4	US-10-152-383-346	Sequence 346, App	967	32	61.5	723	4	US-10-156-842-346	Sequence 346, App
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902	32	61.5	723	4	US-10-152-387-346	Sequence 346, App	975	32	61.5	723	4	US-10-121-063-346	Sequence 346, App
903	32	61.5	723	4	US-10-152-389-346	Sequence 346, App	976	32	61.5	723	4	US-10-123-212-346	Sequence 346, App
904	32	61.5	723	4	US-10-152-390-346	Sequence 346, App	976	32	61.5	723	4	US-10-123-213-346	Sequence 346, App

```
977 32 61.5 723 4 US-10-123-291-346 Sequence 346, App
978 32 61.5 723 4 US-10-123-322-346 Sequence 346, App
979 32 61.5 723 4 US-10-123-771-346 Sequence 346, App
980 32 61.5 723 4 US-10-123-911-346 Sequence 346, App
981 32 61.5 723 4 US-10-124-823-346 Sequence 346, App
982 32 61.5 723 4 US-10-125-931-346 Sequence 346, App
983 32 61.5 723 4 US-10-125-932-346 Sequence 346, App
984 32 61.5 723 4 US-10-127-852-346 Sequence 346, App
985 32 61.5 723 4 US-10-127-900-346 Sequence 346, App
986 32 61.5 723 4 US-10-128-685-346 Sequence 346, App
987 32 61.5 723 4 US-10-131-820-346 Sequence 346, App
988 32 61.5 723 4 US-10-142-886-346 Sequence 346, App
989 32 61.5 723 4 US-10-146-728-346 Sequence 346, App
990 32 61.5 723 4 US-10-146-786-346 Sequence 346, App
991 32 61.5 723 4 US-10-147-499-346 Sequence 346, App
992 32 61.5 723 4 US-10-157-798-346 Sequence 346, App
993 32 61.5 723 4 US-10-123-913-346 Sequence 346, App
994 32 61.5 723 4 US-10-140-473-346 Sequence 346, App
995 32 61.5 723 4 US-10-140-806-346 Sequence 346, App
996 32 61.5 723 4 US-10-140-810-346 Sequence 346, App
997 32 61.5 723 4 US-10-140-863-346 Sequence 346, App
998 32 61.5 723 4 US-10-141-699-346 Sequence 346, App
999 32 61.5 723 4 US-10-141-703-346 Sequence 346, App
1000 32 61.5 723 4 US-10-141-706-346 Sequence 346, App
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ALIGNMENTS

RESULT 1

```
US-10-476-570-11
; Sequence 11, Application US/10476570
; Publication No. US20040170644A1
; GENERAL INFORMATION:
; APPLICANT: COMMISSARIAT A L'ENERGIE ATOMIQUE
; APPLICANT: INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE
; APPLICANT: MAILLIERE, Bernard
; APPLICANT: BOUGAULT-VILLADA, Isabelle
; APPLICANT: GUILLET, Jean-Gerard
; TITLE OF INVENTION: Mixture of peptides derived from B6 and/or E7
; FILE REFERENCE: 45636-5071-US
; CURRENT APPLICATION NUMBER: US/10/476,570
; PRIOR FILING DATE: 2003-11-04
; PRIOR APPLICATION NUMBER: PCT/FR02/01533
; PRIOR FILING DATE: 2002-05-03
; PRIOR APPLICATION NUMBER: FR 01 05980
; PRIOR FILING DATE: 2001-05-04
; NUMBER OF SEQ ID NOS: 63
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 11
; LENGTH: 20
; TYPE: PRT
; ORGANISM: artificial sequence
; FEATURE:
; OTHER INFORMATION: Description of the artificial sequence: peptide B6 61-80
US-10-476-570-11

Query Match 100.0%; Score 52; DB 4; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.22;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 AVCDKCLKF 9
Db 8 AVCDKCLKF 16
```

```
RESULT 2
US-10-612-818-4
; Sequence 4, Application US/10612818
; Publication No. US20040110925A1
; GENERAL INFORMATION:
```

```
; APPLICANT: Impact Diagnostics
; APPLICANT: Impact Diagnostics
; TITLE OF INVENTION: Peptides from the E2, E6 and E7 Proteins of Human Papillomavirus
; TITLE OF INVENTION: 18 for Detecting and/or Diagnosing Cervical and Other Human Papi
; FILE REFERENCE: 3352-2-2
; CURRENT APPLICATION NUMBER: US/10/612,818
; CURRENT FILING DATE: 2003-07-01
; PRIOR APPLICATION NUMBER: US 60/394,172
; PRIOR FILING DATE: 2002-07-02
; PRIOR APPLICATION NUMBER: US 09/828,645
; PRIOR FILING DATE: 2001-04-05
; NUMBER OF SEQ ID NOS: 8
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 4
; LENGTH: 22
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Derived from the B6 early coding region of HPV 16
US-10-612-818-4
```

```
Query Match 100.0%; Score 52; DB 4; Length 22;
Best Local Similarity 100.0%; Pred. No. 0.24;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 AVCDKCLKF 9
Db 7 AVCDKCLKF 15
```

RESULT 3

```
US-10-995-902-4
; Sequence 4, Application US/10995902
; Publication No. US20050221295A1
; GENERAL INFORMATION:
; APPLICANT: Impact Diagnostics
; APPLICANT: Impact Diagnostics
; TITLE OF INVENTION: Peptides from the E2, E6 and E7 Proteins of Human Papillomavirus
; TITLE OF INVENTION: 18 for Detecting and/or Diagnosing Cervical and Other Human Papi
; FILE REFERENCE: 3352-2-2
; CURRENT APPLICATION NUMBER: US/10/995,902
; CURRENT FILING DATE: 2004-11-23
; PRIOR APPLICATION NUMBER: US 60/394,172
; PRIOR FILING DATE: 2002-07-02
; PRIOR APPLICATION NUMBER: US 09/828,645
; PRIOR FILING DATE: 2001-04-05
; NUMBER OF SEQ ID NOS: 8
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 4
; LENGTH: 22
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Derived from the B6 early coding region of HPV 16
US-10-995-902-4
```

```
Query Match 100.0%; Score 52; DB 5; Length 22;
Best Local Similarity 100.0%; Pred. No. 0.24;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 AVCDKCLKF 9
Db 7 AVCDKCLKF 15
```

```
RESULT 4
US-10-177-390-6
; Sequence 6, Application US/10177390
; Publication No. US20030143743A1
; GENERAL INFORMATION:
; APPLICANT: Schuler, Gerold
```



```
APPLICANT: N.V. Antwerp Immovalecentrum
; TITLE OF INVENTION: Improved transfection of Eucaryotic Cells with Linear
; FILE REFERENCE: Polynucleotides by Electroporation
; FILE REFERENCE: 021505wo/JH/ml
; CURRENT APPLICATION NUMBER: US/10/177,390
; NUMBER OF SEQ ID NOS: 34
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 6
; LENGTH: 151
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-10-177-390-6
```

```
Query Match          100.0%; Score 52; DB 4; Length 151;
Best Local Similarity 100.0%; Pred. No. 1.3;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 AVCDKCLKF 9
Db 61 AVCDKCLKF 69
```

```
RESULT 5
US-10-484-063-20
; Sequence 20, Application US/10484063
; Publication No. US20050048467A1
; GENERAL INFORMATION:
; APPLICANT: SASTRY, K. JAGANNADHA
; APPLICANT: TORTOLERO-LUNA, GUILLEMO
; TITLE OF INVENTION: METHODS AND COMPOSITIONS RELATING TO HPV-ASSOCIATED
; FILE REFERENCE: UISC:560US
; CURRENT APPLICATION NUMBER: US/10/484,063
; PRIOR FILING DATE: 2004-01-16
; PRIOR APPLICATION NUMBER: PCT/US02/23198
; PRIOR FILING DATE: 2002-07-19
; PRIOR APPLICATION NUMBER: 60/306,809
; PRIOR FILING DATE: 2001-07-20
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 20
; LENGTH: 151
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-484-063-20
```

```
Query Match          100.0%; Score 52; DB 5; Length 151;
Best Local Similarity 100.0%; Pred. No. 1.3;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 AVCDKCLKF 9
Db 61 AVCDKCLKF 69
```

```
RESULT 6
US-10-484-063-27
; Sequence 27, Application US/10484063
; Publication No. US20050048467A1
; GENERAL INFORMATION:
; APPLICANT: SASTRY, K. JAGANNADHA
; APPLICANT: TORTOLERO-LUNA, GUILLEMO
; TITLE OF INVENTION: METHODS AND COMPOSITIONS RELATING TO HPV-ASSOCIATED
; FILE REFERENCE: UISC:560US
; CURRENT APPLICATION NUMBER: US/10/484,063
; PRIOR FILING DATE: 2004-01-16
; PRIOR APPLICATION NUMBER: PCT/US02/23198
; PRIOR FILING DATE: 2002-07-19
; PRIOR APPLICATION NUMBER: 60/306,809
```

```
; PRIOR FILING DATE: 2001-07-20
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 27
; LENGTH: 151
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-10-484-063-27
```

```
Query Match          100.0%; Score 52; DB 5; Length 151;
Best Local Similarity 100.0%; Pred. No. 1.3;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 AVCDKCLKF 9
Db 61 AVCDKCLKF 69
```

```
RESULT 7
US-10-858-384-2
; Sequence 2, Application US/10858384
; Publication No. US20050033025A1
; GENERAL INFORMATION:
; APPLICANT: CHOPIN, JEANNINE
; APPLICANT: BOURGAULT VILLADA, ISABELLE
; APPLICANT: GUILLET, JEAN-GERARD
; APPLICANT: CONNAN, FRANCINE
; APPLICANT: FERRIES, ESTELLE
; TITLE OF INVENTION: POLYPEPTOPIC PROTEIN FRAGMENTS OF THE E6 PROTEIN
; FILE REFERENCE: 0508-1037-1
; CURRENT APPLICATION NUMBER: US/10/858,384
; PRIOR FILING DATE: 2004-06-02
; PRIOR APPLICATION NUMBER: FR 9907012
; PRIOR FILING DATE: 1999-06-03
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: PatentIn Ver. 3.2
; SEQ ID NO 2
; LENGTH: 158
; TYPE: PRT
; ORGANISM: Human Papillomavirus
US-10-858-384-2
```

```
Query Match          100.0%; Score 52; DB 5; Length 158;
Best Local Similarity 100.0%; Pred. No. 1.4;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 AVCDKCLKF 9
Db 68 AVCDKCLKF 76
```

```
RESULT 8
US-10-367-057-16
; Sequence 16, Application US/10367057
; Publication No. US20050100554A1
; GENERAL INFORMATION:
; APPLICANT: Cutbill, Scott;
; APPLICANT: Jackson, Amanda;
; APPLICANT: Lewin, David A.;
; TITLE OF INVENTION: Complexes and Methods of Using Same
; FILE REFERENCE: 21402-559
; CURRENT APPLICATION NUMBER: US/10/367,057
; PRIOR FILING DATE: 2003-02-14
; PRIOR APPLICATION NUMBER: 60/256,911
; PRIOR FILING DATE: 2002-02-14
; NUMBER OF SEQ ID NOS: 198
; SOFTWARE: Curaseq1st version 0.1
; SEQ ID NO 16
; LENGTH: 158
; TYPE: PRT
```

; ORGANISM: Homo sapiens
US-10-367-057-16

Query Match 100.0%; Score 52; DB 5; Length 158;
Best Local Similarity 100.0%; Pred. No. 1.4;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AVCDKCLKF 9
DB 68 AVCDKCLKF 76

RESULT 9
US-11-021-949-13
; Sequence 13, Application US/11021949
; Publication No. US20050142541A1
; GENERAL INFORMATION:
; APPLICANT: LU, PETER
; APPLICANT: GARMAN, JONATHAN DAVID
; APPLICANT: BELMARES, MICHAEL P.
; APPLICANT: DIAZ-SAMIENTO, CHAMORRO SONOZA
; APPLICANT: SCHWEIZER, JOHANNES
; TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
; TITLE OF INVENTION: AND METHODS OF THEIR USE
; FILE REFERENCE: VITA-012
; CURRENT APPLICATION NUMBER: US/11/021,949
; CURRENT FILING DATE: 2004-12-23
; PRIOR APPLICATION NUMBER: 60/532,373
; PRIOR FILING DATE: 2003-12-23
; NUMBER OF SEQ ID NOS: 361
; SOFTWARE: PasteSeq for Windows Version 4.0
; SEQ ID NO 13
; LENGTH: 158
; TYPE: PRT
; ORGANISM: human papilloma virus (HPV)
US-11-021-949-13

Query Match 100.0%; Score 52; DB 6; Length 158;
Best Local Similarity 100.0%; Pred. No. 1.4;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AVCDKCLKF 9
DB 68 AVCDKCLKF 76

RESULT 10
US-10-472-724-2
; Sequence 2, Application US/10472724
; Publication No. US20040171806A1
; GENERAL INFORMATION:
; APPLICANT: Cid-Arregui, Angel
; APPLICANT: Zur Hausen, Harald
; TITLE OF INVENTION: Modified HPV E6 and E7 genes and proteins useful for vaccination
; FILE REFERENCE: 4121-154
; CURRENT APPLICATION NUMBER: US/10/472,724
; CURRENT FILING DATE: 2003-09-17
; PRIOR APPLICATION NUMBER: PCT/EP02/03271
; PRIOR FILING DATE: 2002-03-22
; PRIOR APPLICATION NUMBER: EP 01107271.7
; PRIOR FILING DATE: 2001-03-23
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 2
; LENGTH: 171
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Construct
US-10-472-724-2

Query Match 100.0%; Score 52; DB 4; Length 171;
Best Local Similarity 100.0%; Pred. No. 1.5;

Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AVCDKCLKF 9
DB 73 AVCDKCLKF 81

RESULT 11
US-11-072-288-1
; Sequence 1, Application US/11072288
; Publication No. US20050159386A1
; GENERAL INFORMATION:
; APPLICANT: KIENY, Marie-Paule
; APPLICANT: BALLOU, Jean-Marc
; APPLICANT: BIZOUARNE, Nadine
; TITLE OF INVENTION: ANTITUMORAL COMPOSITION BASED ON IMMUNOGENIC
; TITLE OF INVENTION: POLYPEPTIDE WITH MODIFIED CELL LOCATION
; FILE REFERENCE: 017753-122
; CURRENT APPLICATION NUMBER: US/11/072,288
; CURRENT FILING DATE: 2005-03-07
; PRIOR APPLICATION NUMBER: US/09/462,993
; PRIOR FILING DATE: 2000-04-17
; PRIOR APPLICATION NUMBER: PCT/FR98/01576
; PRIOR FILING DATE: 1998-07-17
; PRIOR APPLICATION NUMBER: FR 97/09152
; PRIOR FILING DATE: 1997-07-18
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: PatentIn Ver. 2.2
; SEQ ID NO 1
; LENGTH: 243
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Derived from
; OTHER INFORMATION: human papillomavirus, strain HPV-16, E6 protein
US-11-072-288-1

Query Match 100.0%; Score 52; DB 6; Length 243;
Best Local Similarity 100.0%; Pred. No. 2.1;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AVCDKCLKF 9
DB 96 AVCDKCLKF 104

RESULT 12
US-09-367-309A-1
; Sequence 1, Application US/09367309A
; Publication No. US20020081329A1
; GENERAL INFORMATION:
; APPLICANT: MACFARLAN, RODERICK I.
; APPLICANT: MALIAROS, JIM
; TITLE OF INVENTION: CHELATING IMMUNOSTIMULATING COMPLEXES
; FILE REFERENCE: 017227/0149
; CURRENT APPLICATION NUMBER: US/09/367,309A
; CURRENT FILING DATE: 1999-08-11
; PRIOR APPLICATION NUMBER: PCT/AU98/00080
; PRIOR FILING DATE: 1998-02-13
; PRIOR APPLICATION NUMBER: AU PO 5178
; PRIOR FILING DATE: 1997-02-19
; NUMBER OF SEQ ID NOS: 6
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
; LENGTH: 266
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-09-367-309A-1

Query Match 100.0%; Score 52; DB 3; Length 266;
Best Local Similarity 100.0%; Pred. No. 2.2;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AVCDKCLKF 9
|||||
Db 68 AVCDKCLKF 76

RESULT 13
US-10-000-903-4
; Sequence 4, Application US/10000903
; Publication No. US20020182221A1
; GENERAL INFORMATION:
; APPLICANT: Bruck, Claudine
; APPLICANT: Cabazon Silva, Teresa
; APPLICANT: Delisse, Anne-Marie Eva Bernande
; APPLICANT: Gerard, Catherine Marie Ghislaine
; APPLICANT: Lombardo-Bencheikh, Angela
; TITLE OF INVENTION: Vaccine
; FILE REFERENCE: B45107
; CURRENT APPLICATION NUMBER: US/10/000,903
; CURRENT FILING DATE: 2001-10-01
; PRIOR APPLICATION NUMBER: PCT/EP98/05285
; PRIOR FILING DATE: 1998-08-17
; PRIOR APPLICATION NUMBER: GB 9717953.5
; PRIOR FILING DATE: 1997-08-22
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 4
; LENGTH: 273
; TYPE: PRT
; ORGANISM: Homo sapien
US-10-000-903-4

Query Match 100.0%; Score 52; DB 4; Length 273;
Best Local Similarity 100.0%; Pred. No. 2.3;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AVCDKCLKF 9
|||||
Db 174 AVCDKCLKF 182

RESULT 14
US-10-899-771-4
; Sequence 4, Application US/10899771
; Publication No. US20050031638A1
; GENERAL INFORMATION:
; APPLICANT: Dalemans, Wilfried L.J.
; APPLICANT: Gerard, Catherine Marie Ghislaine
; TITLE OF INVENTION: Compositions Comprising Human Papilloma Virus Proteins
; TITLE OF INVENTION: and Fusion Proteins Adjuvanted with a CpG Oligonucleotide
; FILE REFERENCE: B45124
; CURRENT APPLICATION NUMBER: US/10/899,771
; CURRENT FILING DATE: 2004-07-27
; PRIOR APPLICATION NUMBER: US/09/581,976
; PRIOR FILING DATE: 2000-06-20
; PRIOR APPLICATION NUMBER: PCT/EP98/08563
; PRIOR FILING DATE: 1998-12-18
; PRIOR APPLICATION NUMBER: GB 9727262.9
; PRIOR FILING DATE: 1997-12-24
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 4
; LENGTH: 273
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Chimeraic protein (protein D from Haemophilus
; OTHER INFORMATION: Influenzae B and B6 from Human papilloma virus type
; OTHER INFORMATION: 16)
US-10-899-771-4

Query Match 100.0%; Score 52; DB 5; Length 273;
Best Local Similarity 100.0%; Pred. No. 2.3;

Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 AVCDKCLKF 9
|||||
Db 174 AVCDKCLKF 182

RESULT 15
US-10-000-903-10
; Sequence 10, Application US/10000903
; Publication No. US20020182221A1
; GENERAL INFORMATION:
; APPLICANT: Bruck, Claudine
; APPLICANT: Cabazon Silva, Teresa
; APPLICANT: Delisse, Anne-Marie Eva Bernande
; APPLICANT: Gerard, Catherine Marie Ghislaine
; APPLICANT: Lombardo-Bencheikh, Angela
; TITLE OF INVENTION: Vaccine
; FILE REFERENCE: B45107
; CURRENT APPLICATION NUMBER: US/10/000,903
; CURRENT FILING DATE: 2001-10-01
; PRIOR APPLICATION NUMBER: PCT/EP98/05285
; PRIOR FILING DATE: 1998-08-17
; PRIOR APPLICATION NUMBER: GB 9717953.5
; PRIOR FILING DATE: 1997-08-22
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 10
; LENGTH: 292
; TYPE: PRT
; ORGANISM: Homo sapien
US-10-000-903-10

Query Match 100.0%; Score 52; DB 4; Length 292;
Best Local Similarity 100.0%; Pred. No. 2.4;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AVCDKCLKF 9
|||||
Db 193 AVCDKCLKF 201

RESULT 16
US-10-899-771-10
; Sequence 10, Application US/10899771
; Publication No. US20050031638A1
; GENERAL INFORMATION:
; APPLICANT: Dalemans, Wilfried L.J.
; APPLICANT: Gerard, Catherine Marie Ghislaine
; TITLE OF INVENTION: Compositions Comprising Human Papilloma Virus Proteins
; TITLE OF INVENTION: and Fusion Proteins Adjuvanted with a CpG Oligonucleotide
; FILE REFERENCE: B45124
; CURRENT APPLICATION NUMBER: US/10/899,771
; CURRENT FILING DATE: 2004-07-27
; PRIOR APPLICATION NUMBER: US/09/581,976
; PRIOR FILING DATE: 2000-06-20
; PRIOR APPLICATION NUMBER: PCT/EP98/08563
; PRIOR FILING DATE: 1998-12-18
; PRIOR APPLICATION NUMBER: GB 9727262.9
; PRIOR FILING DATE: 1997-12-24
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 10
; LENGTH: 292
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Chimeraic protein (Clyta from Streptococcus
; OTHER INFORMATION: pneumoniae and B6 from Human papilloma virus type
; OTHER INFORMATION: 16)
US-10-899-771-10

Query Match 100.0%; Score 52; DB 5; Length 292;

Best Local Similarity 100.0%; Pred. No. 2.4;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 AVCDKCLKF 9
|||
Db 193 AVCDKCLKF 201

RESULT 17

US-10-000-903-6
; Sequence 6, Application US/10000903
; Publication No. US20020182221A1
; GENERAL INFORMATION:
; APPLICANT: Bruck, Claudine
; APPLICANT: Cabezon Silva, Teresa
; APPLICANT: Delisse, Anne-Marie Eva Fernandez
; APPLICANT: Gerard, Catherine Marie Ghislaine
; APPLICANT: Lombardo-Bencheikh, Angela
; TITLE OF INVENTION: Vaccine
; FILE REFERENCE: B45107
; CURRENT APPLICATION NUMBER: US/10/000,903
; CURRENT FILING DATE: 2001-10-01
; PRIOR APPLICATION NUMBER: PCT/EP98/05285
; PRIOR FILING DATE: 1998-08-17
; PRIOR APPLICATION NUMBER: GB 9717953.5
; PRIOR FILING DATE: 1997-08-22
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FaastSeq for windows Version 3.0
; SEQ ID NO 6
; LENGTH: 371
; TYPE: PRT
; ORGANISM: Homo sapien
US-10-000-903-6

Query Match 100.0%; Score 52; DB 4; Length 371;
Best Local Similarity 100.0%; Pred. No. 3;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 AVCDKCLKF 9
|||
Db 174 AVCDKCLKF 182

RESULT 18

US-10-899-771-6
; Sequence 6, Application US/10899771
; Publication No. US20050031638A1
; GENERAL INFORMATION:
; APPLICANT: Dalemans, Wilfried L.J.
; APPLICANT: Gerard, Catherine Marie Ghislaine
; TITLE OF INVENTION: Compositions Comprising Human Papilloma Virus Proteins
; FILE REFERENCE: B45124
; CURRENT APPLICATION NUMBER: US/10/899,771
; CURRENT FILING DATE: 2004-07-27
; PRIOR APPLICATION NUMBER: US/09/581,976
; PRIOR FILING DATE: 2000-06-20
; PRIOR APPLICATION NUMBER: PCT/EP98/08563
; PRIOR FILING DATE: 1998-12-18
; PRIOR APPLICATION NUMBER: GB 9727262.9
; PRIOR FILING DATE: 1997-12-24
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: FaastSeq for windows Version 3.0
; SEQ ID NO 6
; LENGTH: 371
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Chimeric protein (protein D from Haemophilus
; OTHER INFORMATION: influenzae B and E6E7 fusion from Human papilloma
; OTHER INFORMATION: virus type 16)
US-10-899-771-6

Query Match 100.0%; Score 52; DB 5; Length 371;
Best Local Similarity 100.0%; Pred. No. 3;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 AVCDKCLKF 9
|||
Db 174 AVCDKCLKF 182

RESULT 19

US-10-000-903-14
; Sequence 14, Application US/10000903
; Publication No. US20020182221A1
; GENERAL INFORMATION:
; APPLICANT: Bruck, Claudine
; APPLICANT: Cabezon Silva, Teresa
; APPLICANT: Delisse, Anne-Marie Eva Fernandez
; APPLICANT: Gerard, Catherine Marie Ghislaine
; APPLICANT: Lombardo-Bencheikh, Angela
; TITLE OF INVENTION: Vaccine
; FILE REFERENCE: B45107
; CURRENT APPLICATION NUMBER: US/10/000,903
; CURRENT FILING DATE: 2001-10-01
; PRIOR APPLICATION NUMBER: PCT/EP98/05285
; PRIOR FILING DATE: 1998-08-17
; PRIOR APPLICATION NUMBER: GB 9717953.5
; PRIOR FILING DATE: 1997-08-22
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FaastSeq for windows Version 3.0
; SEQ ID NO 14
; LENGTH: 390
; TYPE: PRT
; ORGANISM: Homo sapien
US-10-000-903-14

Query Match 100.0%; Score 52; DB 4; Length 390;
Best Local Similarity 100.0%; Pred. No. 3.1;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 AVCDKCLKF 9
|||
Db 193 AVCDKCLKF 201

RESULT 20

US-10-899-771-14
; Sequence 14, Application US/10899771
; Publication No. US20050031638A1
; GENERAL INFORMATION:
; APPLICANT: Dalemans, Wilfried L.J.
; APPLICANT: Gerard, Catherine Marie Ghislaine
; TITLE OF INVENTION: Compositions Comprising Human Papilloma Virus Proteins
; FILE REFERENCE: B45124
; CURRENT APPLICATION NUMBER: US/10/899,771
; CURRENT FILING DATE: 2004-07-27
; PRIOR APPLICATION NUMBER: US/09/581,976
; PRIOR FILING DATE: 2000-06-20
; PRIOR APPLICATION NUMBER: PCT/EP98/08563
; PRIOR FILING DATE: 1998-12-18
; PRIOR APPLICATION NUMBER: GB 9727262.9
; PRIOR FILING DATE: 1997-12-24
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: FaastSeq for windows Version 3.0
; SEQ ID NO 14
; LENGTH: 390
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Chimeric protein (Clyta from Streptococcus
; OTHER INFORMATION: pneumoniae and E6E7 fusion from Human papilloma
; OTHER INFORMATION: virus type 16)
US-10-899-771-14

Query Match 100.0%; Score 52; DB 5; Length 390;
Best Local Similarity 100.0%; Pred. No. 3.1;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AVCDKCLK 9
DB 193 AVCDKCLK 201

RESULT 21

US-10-425-114-53267
; Sequence 53267, Application US/10425114
; Publication No. US20040034888A1
; GENERAL INFORMATION:
; APPLICANT: Liu, Jingdong
; APPLICANT: Zhou, Yihua
; APPLICANT: Kovalic, David K.
; APPLICANT: Screen, Steven E
; APPLICANT: Tabaska, Jack E
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(5313)B
; CURRENT APPLICATION NUMBER: US/10/425,114
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 73128
; SEQ ID NO 53267
; LENGTH: 241
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; OTHER INFORMATION: Clone ID: 700837183_FLI.pep
US-10-425-114-53267

Query Match 80.8%; Score 42; DB 4; Length 241;
Best Local Similarity 87.5%; Pred. No. 73;
Matches 7; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 AVCDKCLK 8
DB 193 AVCDKCLK 200

RESULT 22

US-10-424-599-197309
; Sequence 197309, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J
; APPLICANT: Kovalic, David K
; APPLICANT: Zhou Yihua
; APPLICANT: Cao Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 197309
; LENGTH: 256
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_20197C.1.pep
US-10-424-599-197309

Query Match 80.8%; Score 42; DB 4; Length 256;
Best Local Similarity 87.5%; Pred. No. 77;
Matches 7; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 AVCDKCLK 8
DB 193 AVCDKCLK 200

DB 208 AVCDKCLK 215

RESULT 23

US-10-484-063-6
; Sequence 6, Application US/10484063
; Publication No. US20050048467A1
; GENERAL INFORMATION:
; APPLICANT: SASTRY, K. JAGANNADHA
; APPLICANT: TORTOLERO-LUNA, GUTIERRO
; APPLICANT: FOLLEN, MICHEL
; TITLE OF INVENTION: METHODS AND COMPOSITIONS RELATING TO HPV-ASSOCIATED
; FILE REFERENCE: US/08-063-6
; CURRENT APPLICATION NUMBER: US/10/484,063
; CURRENT FILING DATE: 2004-01-16
; PRIOR APPLICATION NUMBER: PCT/US02/23198
; PRIOR FILING DATE: 2002-07-19
; PRIOR APPLICATION NUMBER: 60/306,809
; PRIOR FILING DATE: 2001-07-20
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 6
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-484-063-6

Query Match 78.8%; Score 41; DB 5; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.7e+06;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AVCDKCLK 7
DB 3 AVCDKCLK 9

RESULT 24

US-08-344-824-237
; Sequence 237, Application US/08344824
; Publication No. US20030152580A1
; GENERAL INFORMATION:
; APPLICANT: SETTE, Alessandro
; APPLICANT: SIDNEY, John
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; NUMBER OF SEQUENCES: 399
; CORRESPONDENCE ADDRESSES:
; ADDRESSEE: Townsend and Townsend Kourile and Crew
; STREET: One Market Plaza, Stewart Street Tower, 20th
; STREET: Floor
; CITY: San Francisco
; STATE: California
; COUNTRY: USA
; ZIP: 94105
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/344,824
; FILING DATE: 23-NOV-1994
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/278,634
; FILING DATE: 21-JUL-1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Baecian, Kevin L.
; REGISTRATION NUMBER: 34,774
; REFERENCE/DOCKET NUMBER: 14137-80-1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (415) 543-9600
; TELEFAX: (415) 543-5043

```
/ TYPE: PRT
/ ORGANISM: human papilloma virus (HPV)
/ US-11-021-949-14
Query Match
Best Local Similarity 75.0%; Score 39; DB 6; Length 149;
Matches 7; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 10 amino acids
/ TYPE: amino acid
/ STRANDEDNESS: single
/ TOPOLOGY: linear
/ MOLECULE TYPE: DNA (genomic)
US-08-344-824-237

Query Match
Best Local Similarity 78.8%; Score 41; DB 2; Length 10;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AVCDKCL 7
DB 4 AVCDKCL 10

RESULT 25
US-11-021-949-361
/ Sequence 361, Application US/11021949
/ Publication No. US20050142541A1
/ GENERAL INFORMATION:
/ APPLICANT: LU, PETER
/ APPLICANT: GARMAN, JONATHAN DAVID
/ APPLICANT: BELMARES, MICHAEL P.
/ APPLICANT: DIAZ-SARMIENTO, CHAMORRO SONOZA
/ APPLICANT: SCHWEIZER, JOHANNES
/ TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
/ TITLE OF INVENTION: AND METHODS OF THEIR USE
/ FILE REFERENCE: VITA-012
/ CURRENT APPLICATION NUMBER: US/11/021,949
/ PRIOR FILING DATE: 2004-12-23
/ PRIOR APPLICATION NUMBER: 60/532,373
/ NUMBER OF SEQ ID NOS: 361
/ SOFTWARE: FastSeq for Windows Version 4.0
/ SEQ ID NO 361
/ LENGTH: 158
/ TYPE: PRT
/ ORGANISM: human papilloma virus (HPV)
US-11-021-949-361

Query Match
Best Local Similarity 76.9%; Score 40; DB 6; Length 158;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 AVCDKCL 9
DB 63 AACQCKIC 71

RESULT 26
US-11-021-949-14
/ Sequence 14, Application US/11021949
/ Publication No. US20050142541A1
/ GENERAL INFORMATION:
/ APPLICANT: LU, PETER
/ APPLICANT: GARMAN, JONATHAN DAVID
/ APPLICANT: BELMARES, MICHAEL P.
/ APPLICANT: DIAZ-SARMIENTO, CHAMORRO SONOZA
/ APPLICANT: SCHWEIZER, JOHANNES
/ TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
/ TITLE OF INVENTION: AND METHODS OF THEIR USE
/ FILE REFERENCE: VITA-012
/ CURRENT APPLICATION NUMBER: US/11/021,949
/ PRIOR FILING DATE: 2004-12-23
/ PRIOR APPLICATION NUMBER: 60/532,373
/ NUMBER OF SEQ ID NOS: 361
/ SOFTWARE: FastSeq for Windows Version 4.0
/ SEQ ID NO 14
/ LENGTH: 149
```

```
/ TYPE: PRT
/ ORGANISM: human papilloma virus (HPV)
/ US-11-021-949-14
Query Match
Best Local Similarity 75.0%; Score 39; DB 6; Length 149;
Matches 7; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 10 amino acids
/ TYPE: amino acid
/ STRANDEDNESS: single
/ TOPOLOGY: linear
/ MOLECULE TYPE: DNA (genomic)
US-08-344-824-237

Query Match
Best Local Similarity 78.8%; Score 41; DB 2; Length 10;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 VCDKCL 9
DB 62 VCDKCL 69

RESULT 27
US-10-424-599-199555
/ Sequence 199555, Application US/10424599
/ Publication No. US20040031072A1
/ GENERAL INFORMATION:
/ APPLICANT: La Rosa Thomas J
/ APPLICANT: Kovalic David K
/ APPLICANT: Zhou Yihua
/ APPLICANT: Cao Yongwei
/ TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
/ TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
/ FILE REFERENCE: 38-21(53223)B
/ CURRENT APPLICATION NUMBER: US/10/424,599
/ PRIOR FILING DATE: 2003-04-28
/ NUMBER OF SEQ ID NOS: 285684
/ SEQ ID NO 199555
/ LENGTH: 152
/ TYPE: PRT
/ ORGANISM: Glycine max
/ FEATURE:
/ LOCATION: (1)..(152)
/ OTHER INFORMATION: unsure at all Xaa locations
/ FEATURE:
/ OTHER INFORMATION: Clone ID: PAT_MRT3847_22222C.1.pep
US-10-424-599-199555

Query Match
Best Local Similarity 75.0%; Score 39; DB 4; Length 152;
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 2 VCDKCL 8
DB 64 LCDKCL 70

RESULT 28
US-10-424-599-242913
/ Sequence 242913, Application US/10424599
/ Publication No. US20040031072A1
/ GENERAL INFORMATION:
/ APPLICANT: La Rosa Thomas J
/ APPLICANT: Kovalic David K
/ APPLICANT: Zhou Yihua
/ APPLICANT: Cao Yongwei
/ TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
/ TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
/ FILE REFERENCE: 38-21(53223)B
/ CURRENT APPLICATION NUMBER: US/10/424,599
/ PRIOR FILING DATE: 2003-04-28
/ NUMBER OF SEQ ID NOS: 285684
/ SEQ ID NO 242913
/ LENGTH: 228
/ TYPE: PRT
/ ORGANISM: Glycine max
/ FEATURE:
/ OTHER INFORMATION: Clone ID: PAT_MRT3847_6137C.1.pep
US-10-424-599-242913

Query Match
Best Local Similarity 75.0%; Score 39; DB 4; Length 228;
```

Best Local Similarity 77.8%; Pred. No. 2e+02; Mismatches 2; Indels 0; Gaps 0;
Matches 7; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 AVCDKCLKF 9
DB 110 AFCDPCLKF 118

RESULT 29

US-10-205-342-1
Sequence 1, Application US/10205342
Publication No. US20030108906A1
GENERAL INFORMATION:
APPLICANT: Warner-Lambert Company
APPLICANT: Lee, Kevin
APPLICANT: Dixon, Alister
APPLICANT: Brooksbank, Robert
APPLICANT: Pinnock, Robert
TITLE OF INVENTION: Identification and Use of Molecules Implicated in Pain
FILE REFERENCE: WL-A-018198
CURRENT APPLICATION NUMBER: US/10/205,342
CURRENT FILING DATE: 2002-07-24
PRIOR APPLICATION NUMBER: GB 0118354.0
PRIOR FILING DATE: 2001-07-27
NUMBER OF SEQ ID NOS: 34
SOFTWARE: Patentin Version 3.0
SEQ ID NO 1
LENGTH: 604
TYPE: PRT
ORGANISM: Rattus norvegicus
FEATURE:
OTHER INFORMATION: A-raf protein (AA 1-604)
US-10-205-342-1

Query Match 75.0%; Score 39; DB 4; Length 604;
Best Local Similarity 77.8%; Pred. No. 4.9e+02;
Matches 7; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 AVCDKCLKF 9
DB 110 AFCDPCLKF 118

RESULT 30

US-10-732-923-13443
Sequence 13443, Application US/10732923
Publication No. US20050108791A1
GENERAL INFORMATION:
APPLICANT: Edgerton, Michael D
TITLE OF INVENTION: TRANSGENIC PLANTS WITH IMPROVED PHENOTYPES
FILE REFERENCE: 38-15(52796)C
CURRENT APPLICATION NUMBER: US/10/732,923
CURRENT FILING DATE: 2003-12-10
PRIOR APPLICATION NUMBER: 10/310,154
PRIOR FILING DATE: 2002-12-04
NUMBER OF SEQ ID NOS: 24149
SEQ ID NO 13443
LENGTH: 604
TYPE: PRT
ORGANISM: Rattus norvegicus
US-10-732-923-13443

Query Match 75.0%; Score 39; DB 5; Length 604;
Best Local Similarity 77.8%; Pred. No. 4.9e+02;
Matches 7; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 AVCDKCLKF 9
DB 110 AFCDPCLKF 118

RESULT 31
US-10-440-341-5

Sequence 5, Application US/10440341
Publication No. US20030181413A1
GENERAL INFORMATION:
APPLICANT: RAPP, ULF
APP, HARALD
STORM, STEPHEN M.

TITLE OF INVENTION: RAF PROTEIN KINASE THERAPEUTICS
NUMBER OF SEQUENCES: 8
CORRESPONDENCE ADDRESS:
ADDRESSER: CUSHMAN, DARBY & CUSHMAN
STREET: 1100 NEW YORK AVE., N.W.
CITY: WASHINGTON
STATE: D.C.
COUNTRY: USA
ZIP: 20005

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/440,341
FILING DATE: 15-May-2003
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/748,931
FILING DATE: <Unknown>
ATTORNEY/AGENT INFORMATION:
NAME: SCOTT, WATSON T.
REGISTRATION NUMBER: 26,581
REFERENCE/DOCKET NUMBER: 5683/82731
TELECOMMUNICATION INFORMATION:
TELEPHONE: 202-861-3067
TELEFAX: 202-822-0944
TELEX: 6714627 CUSH

INFORMATION FOR SEQ ID NO: 5:
SEQUENCE CHARACTERISTICS:
LENGTH: 606 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
SEQUENCE DESCRIPTION: SEQ ID NO: 5:
US-10-440-341-5

Query Match 75.0%; Score 39; DB 4; Length 606;
Best Local Similarity 77.8%; Pred. No. 4.9e+02;
Matches 7; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 AVCDKCLKF 9
DB 110 AFCDPCLKF 118

RESULT 32

US-10-394-322A-53
Sequence 53, Application US/10394322A
Publication No. US2003023391A1
GENERAL INFORMATION:
APPLICANT: Sunesis Pharmaceuticals, Inc.
APPLICANT: Prescott, John C.
TITLE OF INVENTION: IDENTIFICATION OF KINASE INHIBITORS
FILE REFERENCE: 39750-0006 US
CURRENT APPLICATION NUMBER: US/10/394,322A
CURRENT FILING DATE: 2003-03-20
PRIOR APPLICATION NUMBER: US 60/366,892
PRIOR FILING DATE: 2002-03-21
NUMBER OF SEQ ID NOS: 70
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 53
LENGTH: 606
TYPE: PRT
ORGANISM: Homo sapiens

US-10-440-341-5

US-10-394-322A-53

Query Match 75.0%; Score 39; DB 4; Length 606;
Best Local Similarity 77.8%; Pred. No. 4.9e+02;
Matches 7; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 AVCDKCLKF 9
DB 110 AFCDPCLKF 118

RESULT 33

US-10-311-527-4
; Sequence 4, Application US/10311527
; Publication No. US20040115631A1
; GENERAL INFORMATION:
; APPLICANT: Schenb Biotech AG
; APPLICANT: Rapp, Ulf R.
; APPLICANT: Bogenbrodt, Erich
; TITLE OF INVENTION: Nucleic Acid Coding for a Bonding Site of a Protein Kinase of the
; TITLE OF INVENTION: Mitogenic Signalling Cascade of a Glycolysis-Catalyzing Enzyme
; FILE REFERENCE: 00140/005001 SCHE/US/0207
; CURRENT APPLICATION NUMBER: US/10/311,527
; CURRENT FILING DATE: 2002-12-13
; PRIOR APPLICATION NUMBER: DE 10029131
; PRIOR FILING DATE: 2000-06-14
; NUMBER OF SEQ ID NOS: 7
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 4
; LENGTH: 606
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-311-527-4

Query Match 75.0%; Score 39; DB 4; Length 606;
Best Local Similarity 77.8%; Pred. No. 4.9e+02;
Matches 7; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 AVCDKCLKF 9
DB 110 AFCDPCLKF 118

RESULT 34

US-10-473-127-1815
; Sequence 1815, Application US/10473127
; Publication No. US20040236091A1
; GENERAL INFORMATION:
; APPLICANT: Zycos Inc.
; TITLE OF INVENTION: TRANSLATIONAL PROFILING
; FILE REFERENCE: 08191-026W01
; CURRENT APPLICATION NUMBER: US/10/473,127
; CURRENT FILING DATE: 2003-09-26
; PRIOR APPLICATION NUMBER: 60/279,495
; PRIOR FILING DATE: 2001-03-28
; PRIOR APPLICATION NUMBER: 60/292,544
; PRIOR FILING DATE: 2001-05-21
; PRIOR APPLICATION NUMBER: 60/310,801
; PRIOR FILING DATE: 2001-08-08
; PRIOR APPLICATION NUMBER: 60/326,370
; PRIOR FILING DATE: 2001-10-01
; PRIOR APPLICATION NUMBER: 60/336,780
; PRIOR FILING DATE: 2001-12-04
; PRIOR APPLICATION NUMBER: 60/358,985
; PRIOR FILING DATE: 2002-02-20
; NUMBER OF SEQ ID NOS: 2041
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1815
; LENGTH: 606
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-473-127-1815

Query Match 75.0%; Score 39; DB 5; Length 606;
Best Local Similarity 77.8%; Pred. No. 4.9e+02;
Matches 7; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 AVCDKCLKF 9
DB 110 AFCDPCLKF 118

RESULT 35

US-10-473-127-1816
; Sequence 1816, Application US/10473127
; Publication No. US20040236091A1
; GENERAL INFORMATION:
; APPLICANT: Zycos Inc.
; TITLE OF INVENTION: TRANSLATIONAL PROFILING
; FILE REFERENCE: 08191-026W01
; CURRENT APPLICATION NUMBER: US/10/473,127
; CURRENT FILING DATE: 2003-09-26
; PRIOR APPLICATION NUMBER: 60/279,495
; PRIOR FILING DATE: 2001-03-28
; PRIOR APPLICATION NUMBER: 60/292,544
; PRIOR FILING DATE: 2001-05-21
; PRIOR APPLICATION NUMBER: 60/310,801
; PRIOR FILING DATE: 2001-08-08
; PRIOR APPLICATION NUMBER: 60/326,370
; PRIOR FILING DATE: 2001-10-01
; PRIOR APPLICATION NUMBER: 60/336,780
; PRIOR FILING DATE: 2001-12-04
; PRIOR APPLICATION NUMBER: 60/358,985
; PRIOR FILING DATE: 2002-02-20
; NUMBER OF SEQ ID NOS: 2041
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1816
; LENGTH: 606
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: VARIANT
; LOCATION: (1)...(606)
; OTHER INFORMATION: Xaa = Any Amino Acid
US-10-473-127-1816

Query Match 75.0%; Score 39; DB 5; Length 606;
Best Local Similarity 77.8%; Pred. No. 4.9e+02;
Matches 7; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 AVCDKCLKF 9
DB 110 AFCDPCLKF 118

RESULT 36

US-10-473-127-1818
; Sequence 1818, Application US/10473127
; Publication No. US20040236091A1
; GENERAL INFORMATION:
; APPLICANT: Zycos Inc.
; TITLE OF INVENTION: TRANSLATIONAL PROFILING
; FILE REFERENCE: 08191-026W01
; CURRENT APPLICATION NUMBER: US/10/473,127
; CURRENT FILING DATE: 2003-09-26
; PRIOR APPLICATION NUMBER: 60/279,495
; PRIOR FILING DATE: 2001-03-28
; PRIOR APPLICATION NUMBER: 60/292,544
; PRIOR FILING DATE: 2001-05-21
; PRIOR APPLICATION NUMBER: 60/310,801
; PRIOR FILING DATE: 2001-08-08
; PRIOR APPLICATION NUMBER: 60/326,370
; PRIOR FILING DATE: 2001-10-01
; PRIOR APPLICATION NUMBER: 60/336,780
; PRIOR FILING DATE: 2001-12-04
; PRIOR APPLICATION NUMBER: 60/358,985


```

; PRIOR FILING DATE: 2002-02-20
; NUMBER OF SEQ ID NOS: 2041
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1818
; LENGTH: 606
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-473-127-1818

```

```

Query Match          75.0%; Score 39; DB 5; Length 606;
Best Local Similarity 77.8%; Pred. No. 4.9e+02;
Matches 7; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

```

```

QY      1 AVCDKCLKF 9
        |||||
Db      110 ACDPCLKF 118

```

```

RESULT 37
US-10-473-127-1819
; Sequence 1819, Application US/10473127
; Publication No. US20040236091A1
; GENERAL INFORMATION:
; APPLICANT: Zycos Inc.
; TITLE OF INVENTION: TRANSLATIONAL PROFILING
; FILE REFERENCE: 08191-026W01
; CURRENT FILING DATE: 2003-09-26
; PRIOR APPLICATION NUMBER: 60/279,495
; PRIOR FILING DATE: 2001-03-28
; PRIOR APPLICATION NUMBER: 60/292,544
; PRIOR FILING DATE: 2001-05-21
; PRIOR APPLICATION NUMBER: 60/310,801
; PRIOR FILING DATE: 2001-08-08
; PRIOR APPLICATION NUMBER: 60/326,370
; PRIOR FILING DATE: 2001-10-01
; PRIOR APPLICATION NUMBER: 60/336,780
; PRIOR FILING DATE: 2001-12-04
; PRIOR APPLICATION NUMBER: 60/358,985
; PRIOR FILING DATE: 2002-02-20
; NUMBER OF SEQ ID NOS: 2041
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1819
; LENGTH: 606
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-473-127-1819

```

```

Query Match          75.0%; Score 39; DB 5; Length 606;
Best Local Similarity 77.8%; Pred. No. 4.9e+02;
Matches 7; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

```

```

QY      1 AVCDKCLKF 9
        |||||
Db      110 ACDPCLKF 118

```

```

RESULT 38
US-10-473-127-1820
; Sequence 1820, Application US/10473127
; Publication No. US20040236091A1
; GENERAL INFORMATION:
; APPLICANT: Zycos Inc.
; TITLE OF INVENTION: TRANSLATIONAL PROFILING
; FILE REFERENCE: 08191-026W01
; CURRENT FILING DATE: 2003-09-26
; PRIOR APPLICATION NUMBER: US/10/473,127
; PRIOR FILING DATE: 2001-03-28
; PRIOR APPLICATION NUMBER: 60/292,544
; PRIOR FILING DATE: 2001-05-21
; PRIOR APPLICATION NUMBER: 60/310,801
; PRIOR FILING DATE: 2001-08-08

```

```

; PRIOR APPLICATION NUMBER: 60/326,370
; PRIOR FILING DATE: 2001-10-01
; PRIOR APPLICATION NUMBER: 60/336,780
; PRIOR FILING DATE: 2001-12-04
; PRIOR APPLICATION NUMBER: 60/358,985
; PRIOR FILING DATE: 2002-02-20
; NUMBER OF SEQ ID NOS: 2041
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1820
; LENGTH: 606
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-473-127-1820

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Query Match          75.0%; Score 39; DB 5; Length 606;
Best Local Similarity 77.8%; Pred. No. 4.9e+02;
Matches 7; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

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```

QY      1 AVCDKCLKF 9
        |||||
Db      110 ACDPCLKF 118

```

```

RESULT 39
US-10-473-127-1821
; Sequence 1821, Application US/10473127
; Publication No. US20040236091A1
; GENERAL INFORMATION:
; APPLICANT: Zycos Inc.
; TITLE OF INVENTION: TRANSLATIONAL PROFILING
; FILE REFERENCE: 08191-026W01
; CURRENT FILING DATE: 2003-09-26
; PRIOR APPLICATION NUMBER: 60/279,495
; PRIOR FILING DATE: 2001-03-28
; PRIOR APPLICATION NUMBER: 60/292,544
; PRIOR FILING DATE: 2001-05-21
; PRIOR APPLICATION NUMBER: 60/310,801
; PRIOR FILING DATE: 2001-08-08
; PRIOR APPLICATION NUMBER: 60/326,370
; PRIOR FILING DATE: 2001-10-01
; PRIOR APPLICATION NUMBER: 60/336,780
; PRIOR FILING DATE: 2001-12-04
; PRIOR APPLICATION NUMBER: 60/358,985
; PRIOR FILING DATE: 2002-02-20
; NUMBER OF SEQ ID NOS: 2041
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1821
; LENGTH: 606
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-473-127-1821

```

```

Query Match          75.0%; Score 39; DB 5; Length 606;
Best Local Similarity 77.8%; Pred. No. 4.9e+02;
Matches 7; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

```

```

QY      1 AVCDKCLKF 9
        |||||
Db      110 ACDPCLKF 118

```

```

RESULT 40
US-10-732-923-13689
; Sequence 13689, Application US/10732923
; Publication No. US20050108791A1
; GENERAL INFORMATION:
; APPLICANT: Edgeton, Michael D
; TITLE OF INVENTION: TRANSGENIC PLANTS WITH IMPROVED PHENOTYPES
; FILE REFERENCE: 38-15(52796)C
; CURRENT APPLICATION NUMBER: US/10/732,923
; CURRENT FILING DATE: 2003-12-10
; PRIOR APPLICATION NUMBER: 10/310,154

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PRIOR FILING DATE: 2002-12-04
NUMBER OF SEQ ID NOS: 24149
SEQ ID NO 13689
LENGTH: 606
TYPE: PRT
ORGANISM: Sus scrofa
US-10-732-923-13689

Query Match 75.0%; Score 39; DB 5; Length 606;
Best Local Similarity 77.8%; Pred. No. 4.9e+02;
Matches 7; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 AVCDKCLKF 9
DB 110 AFCDPCLKF 118

RESULT 41
US-10-491-545A-2
Sequence 2, Application US/10491545A
Publication No. US20050130117A1
GENERAL INFORMATION:
APPLICANT: Chu, Peter
APPLICANT: Li, Congfen
APPLICANT: Masuda, Esteban
APPLICANT: Masuda, Jorge
APPLICANT: Pardo, Jorge
APPLICANT: Zhao, Haoan
APPLICANT: Rigel Pharmaceuticals, Inc.
TITLE OF INVENTION: Modulators of Lymphocyte Activation and Migration
FILE REFERENCE: 021044-000330US
CURRENT APPLICATION NUMBER: US/10/491,545A
PRIOR FILING DATE: 2004-04-01
PRIOR APPLICATION NUMBER: US 60/327,212
PRIOR FILING DATE: 2001-10-03
PRIOR APPLICATION NUMBER: WO PCT/US02/31618
PRIOR FILING DATE: 2002-10-02
NUMBER OF SEQ ID NOS: 96
SOFTWARE: Patentin Ver. 2.1
SEQ ID NO 2
LENGTH: 606
TYPE: PRT
ORGANISM: Homo sapiens
FEATURE:
OTHER INFORMATION: human ORF (A-raf)
NAME/KEY: MOD RES
LOCATION: (298)
OTHER INFORMATION: Xaa = Glu or Asp
US-10-491-545A-2

Query Match 75.0%; Score 39; DB 5; Length 606;
Best Local Similarity 77.8%; Pred. No. 4.9e+02;
Matches 7; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 AVCDKCLKF 9
DB 110 AFCDPCLKF 118

RESULT 42
US-10-491-545A-4
Sequence 4, Application US/10491545A
Publication No. US20050130117A1
GENERAL INFORMATION:
APPLICANT: Chu, Peter
APPLICANT: Li, Congfen
APPLICANT: Masuda, Esteban
APPLICANT: Masuda, Jorge
APPLICANT: Pardo, Jorge
APPLICANT: Zhao, Haoan
APPLICANT: Rigel Pharmaceuticals, Inc.
TITLE OF INVENTION: Modulators of Lymphocyte Activation and Migration

FILE REFERENCE: 021044-000330US
CURRENT APPLICATION NUMBER: US/10/491,545A
CURRENT FILING DATE: 2004-04-01
PRIOR APPLICATION NUMBER: US 60/327,212
PRIOR FILING DATE: 2001-10-03
PRIOR APPLICATION NUMBER: WO PCT/US02/31618
PRIOR FILING DATE: 2002-10-02
NUMBER OF SEQ ID NOS: 96
SOFTWARE: Patentin Ver. 2.1
SEQ ID NO 4
LENGTH: 606
TYPE: PRT
ORGANISM: Homo sapiens
FEATURE:
OTHER INFORMATION: human v-raf murine sarcoma 3611 viral oncogene
OTHER INFORMATION: homolog 1 (ARAF1)
US-10-491-545A-4

Query Match 75.0%; Score 39; DB 5; Length 606;
Best Local Similarity 77.8%; Pred. No. 4.9e+02;
Matches 7; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 AVCDKCLKF 9
DB 110 AFCDPCLKF 118

RESULT 43
US-10-473-127-1817
Sequence 1817, Application US/10473127
Publication No. US20040236091A1
GENERAL INFORMATION:
APPLICANT: Zycos Inc.
TITLE OF INVENTION: TRANSLATIONAL PROFILING
FILE REFERENCE: 08191-026W01
CURRENT APPLICATION NUMBER: US/10/473,127
CURRENT FILING DATE: 2003-09-26
PRIOR APPLICATION NUMBER: 60/279,495
PRIOR FILING DATE: 2001-03-28
PRIOR APPLICATION NUMBER: 60/292,544
PRIOR FILING DATE: 2001-05-21
PRIOR APPLICATION NUMBER: 60/310,801
PRIOR FILING DATE: 2001-08-08
PRIOR APPLICATION NUMBER: 60/326,370
PRIOR FILING DATE: 2001-10-01
PRIOR APPLICATION NUMBER: 60/336,780
PRIOR FILING DATE: 2001-12-04
PRIOR APPLICATION NUMBER: 60/358,985
PRIOR FILING DATE: 2002-02-20
NUMBER OF SEQ ID NOS: 2041
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 1817
LENGTH: 609
TYPE: PRT
ORGANISM: Homo sapiens
US-10-473-127-1817

Query Match 75.0%; Score 39; DB 5; Length 609;
Best Local Similarity 77.8%; Pred. No. 4.9e+02;
Matches 7; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 AVCDKCLKF 9
DB 110 AFCDPCLKF 118

RESULT 44
US-10-473-127-1822
Sequence 1822, Application US/10473127
Publication No. US20040236091A1
GENERAL INFORMATION:
APPLICANT: Zycos Inc.
TITLE OF INVENTION: TRANSLATIONAL PROFILING

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FILE REFERENCE: 08191-026W01
CURRENT APPLICATION NUMBER: US/10/473,127
CURRENT FILING DATE: 2003-09-26
PRIOR APPLICATION NUMBER: 60/279,495
PRIOR FILING DATE: 2001-03-28
PRIOR APPLICATION NUMBER: 60/292,544
PRIOR FILING DATE: 2001-05-21
PRIOR APPLICATION NUMBER: 60/310,801
PRIOR FILING DATE: 2001-08-08
PRIOR APPLICATION NUMBER: 60/326,370
PRIOR FILING DATE: 2001-10-01
PRIOR APPLICATION NUMBER: 60/336,780
PRIOR FILING DATE: 2001-12-04
PRIOR APPLICATION NUMBER: 60/358,985
PRIOR FILING DATE: 2002-02-20
NUMBER OF SEQ ID NOS: 2041
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 1822
LENGTH: 609
TYPE: PRT
ORGANISM: Homo sapiens
US-10-473-127-1822

Query Match
Best Local Similarity 75.0%; Score 39; DB 5; Length 609;
Best Local Similarity 77.8%; Pred. No. 4.9e+02;
Matches 7; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 AVCDKCLK 9
Db 110 ACDPCLK 118

RESULT 45
US-11-021-949-18
Sequence 18, Application US/11021949
Publication No. US20050142541A1
GENERAL INFORMATION:
APPLICANT: LU, PETER
APPLICANT: GARMAN, JONATHAN DAVID
APPLICANT: BELMARE, MICHAEL P.
APPLICANT: DIAZ-SARMIENTO, CHAMORRO SOMOZA
APPLICANT: SCHWEIZER, JOHANNES
TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
TITLE OF INVENTION: AND METHODS OF THEIR USE
FILE REFERENCE: VITA-012
CURRENT APPLICATION NUMBER: US/11/021,949
CURRENT FILING DATE: 2004-12-23
PRIOR APPLICATION NUMBER: 60/532,373
PRIOR FILING DATE: 2003-12-23
NUMBER OF SEQ ID NOS: 361
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 18
LENGTH: 149
TYPE: PRT
ORGANISM: human papilloma virus (HPV)
US-11-021-949-18

Query Match
Best Local Similarity 73.1%; Score 38; DB 6; Length 149;
Best Local Similarity 75.0%; Pred. No. 2e+02;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 2 VCDKCLK 9
Db 62 VCDKCLK 69

RESULT 46
US-10-450-763-42145
Sequence 42145, Application US/10450763
Publication No. US20050196754A1
GENERAL INFORMATION:
APPLICANT: Hyseq, Inc
TITLE OF INVENTION: NOVEL NUCLEIC ACIDS AND POLYPEPTIDES
```

```
FILE REFERENCE: 790CIP3/US
CURRENT APPLICATION NUMBER: US/10/450,763
CURRENT FILING DATE: 2003-06-11
PRIOR APPLICATION NUMBER: PCT/US01/08631
PRIOR FILING DATE: 2001-03-30
PRIOR APPLICATION NUMBER: 09/540,217
PRIOR FILING DATE: 2000-03-31
PRIOR APPLICATION NUMBER: 09/649,167
PRIOR FILING DATE: 2000-08-23
NUMBER OF SEQ ID NOS: 60736
SOFTWARE: Custom
SEQ ID NO 42145
LENGTH: 198
TYPE: PRT
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: DOMAIN
LOCATION: (99)..(119)
OTHER INFORMATION: NEUROHYPOPHYSIAL HORMONE SIGNATURE domain identified by
OTHER INFORMATION: EMATRIX, accession number PR00831D, p-value=6.595e-09, raw score
OTHER INFORMATION: 13.84
FEATURE:
NAME/KEY: misc.feature
LOCATION: (1)..(198)
OTHER INFORMATION: Xaa = X or * as defined in Table 2
US-10-450-763-42145

Query Match
Best Local Similarity 73.1%; Score 38; DB 5; Length 198;
Best Local Similarity 75.0%; Pred. No. 2.6e+02;
Matches 6; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 1 AVCDKCLK 8
Db 72 AVCECLK 79

RESULT 47
US-11-097-143-35724
Sequence 35724, Application US/11097143
Publication No. US20050208558A1
GENERAL INFORMATION:
APPLICANT: Venter, J. Craig
APPLICANT: et al
TITLE OF INVENTION: DETECTION KIT, SUCH AS NUCLEIC ACID
TITLE OF INVENTION: ARRAYS, FOR DETECTING EXPRESSION OF 10,000 OR MORE
FILE REFERENCE: CL000728
CURRENT APPLICATION NUMBER: US/11/097,143
CURRENT FILING DATE: 2005-04-04
PRIOR APPLICATION NUMBER: 60/157,832
PRIOR FILING DATE: 1999-10-05
PRIOR APPLICATION NUMBER: 60/160,191
PRIOR FILING DATE: 1999-10-19
PRIOR APPLICATION NUMBER: 60/161,932
PRIOR FILING DATE: 1999-10-28
PRIOR APPLICATION NUMBER: 60/164,769
PRIOR FILING DATE: 1999-11-12
PRIOR APPLICATION NUMBER: 60/173,383
PRIOR FILING DATE: 1999-12-28
PRIOR APPLICATION NUMBER: 60/175,693
PRIOR FILING DATE: 2000-01-12
PRIOR APPLICATION NUMBER: 60/184,831
PRIOR FILING DATE: 2000-02-24
PRIOR APPLICATION NUMBER: 60/191,637
PRIOR FILING DATE: 2000-03-23
NUMBER OF SEQ ID NOS: 43008
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 35724
LENGTH: 1079
TYPE: PRT
ORGANISM: DROSOPHILA
US-11-097-143-35724
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Query Match 73.1%; Score 38; DB 6; Length 1079;
Best Local Similarity 75.0%; Pred. No. 1.2e+03;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 2 VCDCKLKF 9
|||:|
514 VCDPCLKF 521

DB

RESULT 48
US-10-153-273-12
Sequence 12, Application US/10153273
Publication No. US20020169305A1
GENERAL INFORMATION:
APPLICANT: Sim, Kim L.
Chitnis, Chetan
Miller, Louis H.
Peterson, David S.
Su, Xin-zhaun
Wellens, Thomas B.
TITLE OF INVENTION: BINDING DOMAINS FROM PLASMODIUM VIVAX
AND PLASMODIUM FALCIPARUM ERYTHROCYTE BINDING PROTEINS
NUMBER OF SEQUENCES: 37
CORRESPONDENCE ADDRESS:
ADDRESSEE: Knobbe Martens Olson & Bear
STREET: 620 Newport Center Drive 16th Floor
CITY: Newport Beach
STATE: California
COUNTRY: US
ZIP: 92660
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/153,273
FILING DATE: 21-May-2002
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/09/210,288
FILING DATE: <Unknown>
ATTORNEY/AGENT INFORMATION:
NAME: Pulley, Michael
REGISTRATION NUMBER: 36,516
REFERENCE/DOCKET NUMBER: NIH21.1FMDV1
TELECOMMUNICATION INFORMATION:
TELEPHONE: (619) 235-9550
TELEFAX: (619) 235-0176
INFORMATION FOR SEQ ID NO: 12:
SEQUENCE CHARACTERISTICS:
LENGTH: 2710 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
HYPOTHEICAL: NO
ORIGINAL SOURCE:
ORGANISM: Plasmodium falciparum
SEQUENCE DESCRIPTION: SEQ ID NO: 12:
US-10-153-273-12

Query Match 73.1%; Score 38; DB 4; Length 2710;
Best Local Similarity 85.7%; Pred. No. 2.6e+03;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 3 CDKCLKF 9
|||:|
2222 CDPCLKF 2228

DB

RESULT 49
US-10-425-115-272652

Sequence 272652, Application US/10425115
Publication No. US20040214272A1
GENERAL INFORMATION:
APPLICANT: La Rosa, Thomas J.
APPLICANT: Kovalic, David K.
APPLICANT: Zhou, Yihua
APPLICANT: Cao, Yongwei
TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated with
FILE REFERENCE: 38-21(53222)B
CURRENT APPLICATION NUMBER: US/10/425,115
CURRENT FILING DATE: 2003-04-28
NUMBER OF SEQ ID NOS: 369326
SEQ ID NO 272652
LENGTH: 53
TYPE: PRT
ORGANISM: Zea mays
FEATURE:
OTHER INFORMATION: Clone ID: MRT4577_180245C.1.pcp
US-10-425-115-272652

Query Match 72.1%; Score 37.5; DB 4; Length 53;
Best Local Similarity 80.0%; Pred. No. 95;
Matches 8; Conservative 1; Mismatches 0; Indels 1; Gaps 1;

QY 1 AVCDKC-LKF 9
|||:|
9 AVCDCKMLKF 18

DB

RESULT 50
US-10-437-963-121605
Sequence 121605, Application US/10437963
Publication No. US20040123543A1
GENERAL INFORMATION:
APPLICANT: La Rosa, Thomas J.
APPLICANT: Kovalic, David K.
APPLICANT: Zhou, Yihua
APPLICANT: Cao, Yongwei
APPLICANT: Wu, Wei
APPLICANT: Bouharov, Andrey A.
APPLICANT: Bardazuk, Brad
APPLICANT: Li, Ping
TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated with
FILE REFERENCE: 38-21(53221)B
CURRENT APPLICATION NUMBER: US/10/437,963
CURRENT FILING DATE: 2003-05-14
NUMBER OF SEQ ID NOS: 204966
SEQ ID NO 121605
LENGTH: 139
TYPE: PRT
ORGANISM: Oryza sativa
FEATURE:
OTHER INFORMATION: Clone ID: PAT_MRT4530_24613C.1.pcp
US-10-437-963-121605

Query Match 72.1%; Score 37.5; DB 4; Length 139;
Best Local Similarity 80.0%; Pred. No. 2.2e+02;
Matches 8; Conservative 1; Mismatches 0; Indels 1; Gaps 1;

QY 1 AVCDKC-LKF 9
|||:|
9 AVCDCKMLKF 18

DB

Search completed: May 5, 2006, 08:50:07
Job time : 58.3 secs

GenCore version 5.1.7
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OM protein - protein search, using sw model

Run on: May 5, 2006, 08:40:52 ; Search time 8.4 Seconds
(without alignments)
49.591 Million cell updates/sec

Title: US-08-170-344-46
Perfect score: 52
Sequence: 1 AVCDKCLKF 9

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 235405 seqs, 46284737 residues
Total number of hits satisfying chosen parameters: 235405

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 1000 summaries

Database :

Published Applications: PA_New.*
1: /SIDS5/ptodata/1/pubpaa/US08_NEW_PUB.pep1.*
2: /SIDS5/ptodata/1/pubpaa/US06_NEW_PUB.pep1.*
3: /SIDS5/ptodata/1/pubpaa/US07_NEW_PUB.pep1.*
4: /SIDS5/ptodata/1/pubpaa/US08_NEW_PUB.pep1.*
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10: /SIDS5/ptodata/1/pubpaa/US11_NEW_PUB.pep1.*
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12: /SIDS5/ptodata/1/pubpaa/US60_NEW_PUB.pep1.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	52	100.0	10	US-10-530-061-502	Sequence 502, App
2	52	100.0	11	US-10-530-061-781	Sequence 781, App
3	52	100.0	151	US-10-530-253-13	Sequence 13, Appl
4	52	100.0	158	US-11-206-138-3	Sequence 3, Appl
5	52	100.0	248	US-10-530-253-1	Sequence 1, Appl
6	52	100.0	248	US-10-530-253-7	Sequence 7, Appl
7	52	100.0	256	US-11-192-923A-2	Sequence 2, Appl
8	48	92.3	10	US-10-530-061-501	Sequence 501, App
9	44	84.6	354	US-10-506-454-517	Sequence 517, App
10	43	82.7	9	US-10-530-061-604	Sequence 604, App
11	42	80.8	9	US-10-530-061-603	Sequence 603, App
12	40	76.9	248	US-10-530-253-3	Sequence 3, Appl
13	40	76.9	248	US-10-530-253-5	Sequence 5, Appl
14	40	76.9	248	US-10-530-253-9	Sequence 9, Appl
15	40	76.9	248	US-10-530-253-11	Sequence 11, Appl
16	39	75.0	149	US-10-530-253-18	Sequence 18, Appl
17	38	73.1	149	US-10-530-253-16	Sequence 16, Appl
18	37.5	72.1	132	US-11-096-568A-15475	Sequence 15475, A
19	37.5	72.1	132	US-11-096-568A-15474	Sequence 15474, A
20	37.5	72.1	132	US-11-096-568A-15473	Sequence 15473, A
21	37	71.2	9	US-10-530-061-801	Sequence 801, App

22	71.2	2442	9	US-10-469-469-252	Sequence 252, App
23	71.2	2442	11	US-11-154-293-4	Sequence 4, Appl
24	69.2	286	11	US-11-264-096-2052	Sequence 2052, App
25	69.2	298	11	US-11-264-096-2051	Sequence 2051, App
26	67.3	158	9	US-10-530-253-19	Sequence 19, Appl
27	67.3	158	9	US-10-530-253-25	Sequence 25, Appl
28	67.3	171	9	US-10-506-454-449	Sequence 449, App
29	67.3	937	9	US-10-512-544-1	Sequence 1, Appl
30	67.3	2414	11	US-11-154-293-8	Sequence 8, Appl
31	65.4	87	11	US-11-096-568A-1034	Sequence 1034, App
32	65.4	67	11	US-11-096-568A-1033	Sequence 1033, App
33	65.4	151	9	US-10-530-253-21	Sequence 21, Appl
34	65.4	217	11	US-11-096-568A-615	Sequence 615, App
35	65.4	1609	11	US-11-072-175-185	Sequence 185, App
36	63.5	10	9	US-10-530-061-472	Sequence 473, App
37	63.5	10	9	US-10-530-061-567	Sequence 567, App
38	63.5	10	9	US-10-530-061-568	Sequence 568, App
39	63.5	11	9	US-10-530-061-785	Sequence 785, App
40	63.5	158	9	US-10-530-253-15	Sequence 15, Appl
41	63.5	257	11	US-11-188-298-3155	Sequence 3155, App
42	63.5	270	11	US-11-072-512-3274	Sequence 3274, App
43	63.5	276	11	US-11-188-298-1735	Sequence 1735, App
44	63.5	370	11	US-11-079-463-9502	Sequence 9502, App
45	63.5	373	11	US-11-087-099-3876	Sequence 3876, App
46	63.5	390	11	US-11-087-099-10001	Sequence 10001, A
47	63.5	476	9	US-10-330-773-51	Sequence 53, Appl
48	63.5	494	9	US-10-763-712A-71	Sequence 71, Appl
49	63.5	494	9	US-10-763-712A-111	Sequence 111, App
50	63.5	530	11	US-11-110-082-32	Sequence 32, Appl
51	63.5	627	11	US-11-079-463-6971	Sequence 6971, App
52	63.5	648	8	US-10-511-814-14	Sequence 14, Appl
53	63.5	648	9	US-10-661-966-12	Sequence 12, Appl
54	63.5	648	9	US-10-661-966-16	Sequence 16, Appl
55	63.5	648	9	US-10-661-966-17	Sequence 17, Appl
56	63.5	648	11	US-11-109-156-17	Sequence 17, Appl
57	63.5	648	11	US-11-219-264-2	Sequence 2, Appl
58	63.5	648	11	US-11-219-264-7	Sequence 7, Appl
59	63.5	1620	9	US-10-055-877-213	Sequence 213, App
60	63.5	2107	9	US-10-995-561-827	Sequence 827, App
61	63.5	2480	9	US-10-995-561-825	Sequence 825, App
62	63.5	2712	11	US-11-004-339-1736	Sequence 1736, App
63	63.5	3116	9	US-10-995-561-826	Sequence 826, App
64	63.5	3116	9	US-11-022-478-17	Sequence 17, Appl
65	63.5	219	11	US-11-188-298-3554	Sequence 3554, App
66	63.5	219	11	US-11-188-298-3554	Sequence 3554, App
67	63.5	291	11	US-11-078-735-30	Sequence 30, Appl
68	63.5	291	11	US-11-050-346-24	Sequence 24, Appl
69	63.5	304	11	US-11-188-298-1169	Sequence 1169, App
70	63.5	329	11	US-11-188-298-22385	Sequence 22385, App
71	63.5	331	11	US-11-078-735-33	Sequence 33, Appl
72	63.5	331	11	US-11-078-735-33	Sequence 33, Appl
73	63.5	331	11	US-11-050-346-27	Sequence 27, Appl
74	63.5	332	8	US-10-511-937-2626	Sequence 2626, App
75	63.5	332	11	US-11-078-735-51	Sequence 51, Appl
76	63.5	332	11	US-11-050-346-41	Sequence 41, Appl
77	63.5	332	11	US-11-103-077-24	Sequence 24, Appl
78	63.5	339	11	US-11-188-298-5818	Sequence 5818, App
79	63.5	359	11	US-11-078-735-38	Sequence 38, Appl
80	63.5	359	11	US-11-050-346-32	Sequence 32, Appl
81	63.5	405	9	US-10-878-556A-155	Sequence 155, App
82	63.5	444	11	US-11-188-298-3715	Sequence 3715, App
83	63.5	444	11	US-11-078-735-43	Sequence 43, Appl
84	63.5	444	11	US-11-050-346-37	Sequence 37, Appl
85	63.5	517	11	US-11-188-298-10922	Sequence 10922, App
86	63.5	517	11	US-11-188-298-10418	Sequence 10418, App
87	63.5	523	11	US-11-188-298-7653	Sequence 7653, App
88	63.5	538	11	US-11-124-368A-311	Sequence 311, App
89	63.5	538	11	US-11-124-368A-312	Sequence 312, App
90	63.5	538	11	US-11-124-368A-313	Sequence 313, App
91	63.5	538	11	US-11-124-368A-314	Sequence 314, App
92	63.5	552	11	US-11-188-298-2101	Sequence 2101, App
93	63.5	552	11	US-11-188-298-4843	Sequence 4843, App
94	63.5	721	9	US-10-995-561-984	Sequence 984, App
		721	11	US-11-022-478-12	Sequence 12, Appl

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96	32	61.5	723	9	US-10-131-826A-346	Sequence 346, App	169	31	59.6	651	11	US-11-188-298-295	Sequence 295, App
97	32	61.5	723	9	US-10-973-115B-346	Sequence 346, App	170	31	59.6	754	11	US-11-096-568A-27995	Sequence 27995, A
98	32	61.5	723	9	US-10-137-873A-346	Sequence 346, App	171	31	59.6	773	11	US-11-096-568A-27994	Sequence 27994, A
99	32	61.5	723	9	US-10-152-370-346	Sequence 346, App	172	31	59.6	870	11	US-11-096-568A-27993	Sequence 27993, A
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102	32	61.5	723	11	US-11-103-077-17	Sequence 17, Appl	175	31	59.6	926	11	US-11-188-988-4926	Sequence 4926, Ap
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104	32	61.5	723	11	US-11-058-066-17	Sequence 17, Appl	177	31	59.6	1003	11	US-11-204-755-9	Sequence 9, Appl1
105	32	61.5	728	11	US-11-023-478-11	Sequence 11, Appl	178	31	59.6	1067	11	US-11-209-137-3	Sequence 3, Appl1
106	32	61.5	735	9	US-10-506-443A-75	Sequence 75, Appl	179	31	59.6	1067	11	US-11-054-912-3	Sequence 3, Appl1
107	32	61.5	735	8	US-10-511-937-3015	Sequence 3015, Ap	180	31	59.6	1067	11	US-10-505-978-57	Sequence 537, App
108	32	61.5	769	9	US-10-995-561-985	Sequence 985, App	181	31	59.6	1193	8	US-11-022-478-8	Sequence 8, Appl1
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111	32	61.5	864	11	US-11-050-346-10	Sequence 10, Appl	184	31	59.6	1218	11	US-11-050-346-65	Sequence 65, Appl
112	32	61.5	864	11	US-11-103-077-29	Sequence 29, Appl	185	31	59.6	1218	11	US-11-103-077-20	Sequence 20, Appl
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114	31	59.6	9	11	US-11-045-024-1935	Sequence 1935, Ap	187	31	59.6	1218	11	US-11-022-478-4	Sequence 4, Appl1
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128	31	59.6	11	11	US-11-045-024-11986	Sequence 11986, A	201	30	57.7	10	9	US-10-530-061-586	Sequence 586, App
129	31	59.6	15	11	US-11-045-024-13417	Sequence 13417, A	202	30	57.7	10	9	US-10-530-061-52	Sequence 52, Appl
130	31	59.6	18	11	US-11-226-657-87	Sequence 87, Appl	203	30	57.7	11	9	US-10-530-061-783	Sequence 783, App
131	31	59.6	68	8	US-10-505-928-817	Sequence 817, App	204	30	57.7	11	9	US-10-530-061-787	Sequence 787, App
132	31	59.6	92	11	US-11-096-568A-295	Sequence 295, App	205	30	57.7	11	9	US-10-530-061-788	Sequence 788, App
133	31	59.6	99	11	US-11-096-568A-294	Sequence 294, App	206	30	57.7	15	9	US-10-530-061-1678	Sequence 1678, Ap
134	31	59.6	99	11	US-11-096-568A-296	Sequence 296, App	207	30	57.7	15	9	US-10-530-061-1688	Sequence 1688, Ap
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136	31	59.6	120	11	US-11-096-568A-293	Sequence 293, App	209	30	57.7	28	11	US-11-196-670-60	Sequence 60, Appl
137	31	59.6	146	11	US-11-096-568A-10467	Sequence 30487, A	210	30	57.7	40	11	US-11-004-199-1788	Sequence 1788, Ap
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139	31	59.6	208	11	US-11-079-463-6553	Sequence 6553, Ap	212	30	57.7	54	11	US-11-196-670-64	Sequence 64, Appl
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142	31	59.6	247	11	US-11-072-512-1998	Sequence 1998, Ap	215	30	57.7	81	11	US-11-244-359-2	Sequence 2, Appl1
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149	31	59.6	334	11	US-11-072-512-2440	Sequence 2440, Ap	222	30	57.7	147	11	US-11-118-655-7	Sequence 7, Appl1
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153	31	59.6	374	11	US-11-226-657-83	Sequence 83, Appl	226	30	57.7	161	11	US-11-154-257-3	Sequence 3, Appl1
154	31	59.6	394	11	US-11-096-568A-26650	Sequence 26650, A	227	30	57.7	166	9	US-10-467-657-1396	Sequence 1396, Ap
155	31	59.6	403	11	US-11-096-568A-26649	Sequence 26649, A	228	30	57.7	174	11	US-11-096-568A-11745	Sequence 11745, A
156	31	59.6	406	11	US-11-072-512-3010	Sequence 3010, Ap	229	30	57.7	178	11	US-11-087-099-11625	Sequence 11625, A
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158	31	59.6	429	11	US-11-070-080-16	Sequence 16, Appl	231	30	57.7	186	11	US-11-096-568A-11744	Sequence 11744, A
159	31	59.6	426	9	US-10-454-437-70	Sequence 70, Appl	232	30	57.7	195	11	US-11-079-463-8110	Sequence 8110, Ap
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163	31	59.6	498	11	US-11-072-512-2548	Sequence 2548, Ap	236	30	57.7	227	11	US-11-096-568A-15842	Sequence 15842, A
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165	31	59.6	545	11	US-11-188-298-21733	Sequence 21733, A	238	30	57.7	253	11	US-11-087-099-9932	Sequence 9932, Ap
166	31	59.6	548	11	US-11-188-298-10840	Sequence 10840, A	239	30	57.7	253	11	US-11-096-568A-33084	Sequence 33084, A
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243	30	57.7	260	11	US-11-096-568A-11743	Sequence 11743, A	316	30	57.7	3690	9	US-10-995-561-1016	Sequence 1016, Ap
244	30	57.7	268	9	US-10-853-807A-43	Sequence 43, Appl	317	30	57.7	3714	9	US-10-995-561-1015	Sequence 1015, Ap
245	30	57.7	269	11	US-11-096-568A-32810	Sequence 32810, A	318	30	57.7	3717	9	US-10-821-234-1076	Sequence 1076, Ap
246	30	57.7	279	11	US-10-853-807A-42	Sequence 42, Appl	319	30	57.7	3969	9	US-10-974-127A-59	Sequence 59, Appl
247	30	57.7	297	11	US-11-096-568A-19638	Sequence 19638, A	320	29	55.8	8	11	US-11-045-024-10078	Sequence 10078, A
248	30	57.7	329	8	US-10-505-928-403	Sequence 403, App	321	29	55.8	10	11	US-11-045-024-11977	Sequence 11977, A
249	30	57.7	329	8	US-10-821-234-1381	Sequence 1381, Ap	322	29	55.8	11	11	US-11-045-024-10129	Sequence 10129, A
250	30	57.7	351	9	US-10-467-657-8330	Sequence 8330, Ap	323	29	55.8	15	9	US-11-045-024-10090	Sequence 10090, A
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252	30	57.7	362	11	US-11-087-099-3156	Sequence 3156, Ap	325	29	55.8	35	11	US-11-019-027-29	Sequence 2295, Ap
253	30	57.7	364	8	US-10-505-928-253	Sequence 253, App	326	29	55.8	36	9	US-10-957-351-99	Sequence 29, Appl
254	30	57.7	364	9	US-10-194-487-36	Sequence 36, Appl	327	29	55.8	76	11	US-11-188-298-20066	Sequence 20066, A
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258	30	57.7	364	9	US-10-156-161A-515	Sequence 515, App	331	29	55.8	97	11	US-11-172-740-1554	Sequence 1554, Ap
259	30	57.7	364	9	US-10-784-004-686	Sequence 686, App	332	29	55.8	98	11	US-11-188-298-16874	Sequence 16874, A
260	30	57.7	365	11	US-11-096-568A-32809	Sequence 32809, A	333	29	55.8	101	11	US-11-188-298-17121	Sequence 17121, A
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264	30	57.7	400	9	US-10-948-053-5	Sequence 5, Appl	337	29	55.8	110	11	US-11-172-740-1549	Sequence 1549, Ap
265	30	57.7	401	9	US-10-510-876-2	Sequence 2, Appl	338	29	55.8	110	11	US-11-188-298-6810	Sequence 6810, Ap
266	30	57.7	401	9	US-10-510-876-4	Sequence 4, Appl	339	29	55.8	110	11	US-11-188-298-7736	Sequence 7736, Ap
267	30	57.7	401	9	US-10-948-053-2	Sequence 2, Appl	340	29	55.8	110	11	US-11-188-298-8129	Sequence 8129, Ap
268	30	57.7	401	9	US-10-948-053-8	Sequence 8, Appl	341	29	55.8	110	11	US-11-188-298-8821	Sequence 8821, Ap
269	30	57.7	401	9	US-10-921-793-52	Sequence 52, Appl	342	29	55.8	110	11	US-11-188-298-8394	Sequence 8394, Ap
270	30	57.7	401	9	US-10-931-198-52	Sequence 52, Appl	343	29	55.8	110	11	US-11-188-298-14360	Sequence 14360, A
271	30	57.7	401	9	US-10-942-042-52	Sequence 52, Appl	344	29	55.8	110	11	US-11-188-298-16874	Sequence 16874, A
272	30	57.7	401	11	US-11-072-175-224	Sequence 224, App	345	29	55.8	110	11	US-11-188-298-17288	Sequence 17288, A
273	30	57.7	401	11	US-11-231-963-1	Sequence 1, Appl	346	29	55.8	110	11	US-11-188-298-17374	Sequence 17374, A
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280	30	57.7	463	11	US-11-264-096-212	Sequence 212, App	353	29	55.8	118	11	US-10-714-887-336	Sequence 336, App
281	30	57.7	472	11	US-11-087-099-5482	Sequence 5482, Ap	354	29	55.8	143	9	US-10-530-253-24	Sequence 24, App
282	30	57.7	474	11	US-11-087-099-5559	Sequence 5559, Ap	355	29	55.8	149	9	US-10-793-626-328	Sequence 328, App
283	30	57.7	489	11	US-11-264-096-211	Sequence 211, App	356	29	55.8	150	9	US-11-188-298-8447	Sequence 8447, Ap
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285	30	57.7	524	10	US-11-232-370-13	Sequence 13, App	358	29	55.8	178	11	US-11-188-298-21910	Sequence 21910, A
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288	30	57.7	532	11	US-11-127-877-42	Sequence 42, Appl	361	29	55.8	184	11	US-11-172-740-1185	Sequence 1185, Ap
289	30	57.7	537	11	US-11-144-236-6	Sequence 6, Appl	362	29	55.8	195	11	US-11-096-568A-15289	Sequence 15289, A
290	30	57.7	543	10	US-11-232-370-6	Sequence 6, Appl	363	29	55.8	198	11	US-11-255-547-2	Sequence 2, Appl
291	30	57.7	544	10	US-11-232-370-9	Sequence 9, Appl	364	29	55.8	208	9	US-10-467-657-1940	Sequence 1940, Ap
292	30	57.7	544	10	US-11-232-370-11	Sequence 11, Appl	365	29	55.8	209	11	US-11-087-099-7360	Sequence 7360, Ap
293	30	57.7	545	10	US-11-232-370-8	Sequence 8, Appl	366	29	55.8	210	9	US-10-330-773-616	Sequence 616, App
294	30	57.7	545	10	US-11-134-563-16	Sequence 16, Appl	367	29	55.8	229	9	US-10-330-773-616	Sequence 616, App
295	30	57.7	551	11	US-11-152-366-42	Sequence 42, Appl	368	29	55.8	231	11	US-11-096-568A-27105	Sequence 27105, A
296	30	57.7	551	11	US-11-232-370-10	Sequence 10, Appl	369	29	55.8	234	9	US-10-330-773-611	Sequence 611, App
297	30	57.7	559	10	US-11-232-370-10	Sequence 10, Appl	370	29	55.8	237	11	US-11-079-463-8874	Sequence 8874, Ap
298	30	57.7	565	11	US-11-127-877-68	Sequence 68, Appl	371	29	55.8	238	11	US-11-096-568A-77104	Sequence 77104, A
299	30	57.7	565	11	US-11-152-366-41	Sequence 41, Appl	372	29	55.8	239	11	US-11-096-568A-15288	Sequence 15288, A
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301	30	57.7	565	11	US-10-506-454-648	Sequence 648, App	374	29	55.8	240	11	US-11-229-769-143	Sequence 143, Appl
302	30	57.7	798	8	US-10-511-937-2445	Sequence 2445, Ap	375	29	55.8	243	11	US-11-096-568A-27103	Sequence 27103, A
303	30	57.7	867	11	US-11-072-512-3052	Sequence 3052, Ap	376	29	55.8	243	11	US-11-096-568A-27103	Sequence 27103, A
304	30	57.7	1024	9	US-10-330-773-927	Sequence 927, App	377	29	55.8	247	9	US-10-330-773-611	Sequence 611, App
305	30	57.7	1077	11	US-11-072-512-2291	Sequence 2291, Ap	378	29	55.8	249	11	US-11-096-568A-2889	Sequence 2889, Ap
306	30	57.7	1104	11	US-11-072-512-2506	Sequence 2506, Ap	379	29	55.8	249	11	US-11-096-568A-2889	Sequence 2889, Ap
307	30	57.7	1201	11	US-11-045-004-689	Sequence 689, App	380	29	55.8	252	9	US-10-506-454-818	Sequence 818, App
308	30	57.7	1217	11	US-11-074-176-252	Sequence 252, App	381	29	55.8	266	11	US-11-072-512-3891	Sequence 3891, Ap
309	30	57.7	1428	9	US-10-877-346-33	Sequence 33, Appl	382	29	55.8	271	11	US-11-096-568A-2888	Sequence 2888, Ap
310	30	57.7	1437	11	US-11-079-463-8094	Sequence 8094, Ap	383	29	55.8	271	11	US-11-096-568A-28742	Sequence 28742, A
311	30	57.7	1798	9	US-10-995-561-1033	Sequence 1033, Ap	384	29	55.8	277	9	US-11-096-568A-19926	Sequence 19926, A
312	30	57.7	1798	9	US-10-995-561-1034	Sequence 1034, Ap	385	29	55.8	277	9	US-10-469-469-53	Sequence 53, Appl
313	30	57.7	2004	9	US-10-469-469-250	Sequence 250, App	386	29	55.8	279	11	US-11-096-568A-18292	Sequence 18292, A

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388	29	55.8	285	11	US-11-188-298-17365	Sequence 17365, A	461	29	55.8	655	9	US-10-216-161A-66	Sequence 64, App
389	29	55.8	288	11	US-11-096-568A-25131	Sequence 25131, A	462	29	55.8	655	11	US-11-072-175-199	Sequence 199, App
390	29	55.8	289	11	US-11-037-243-70	Sequence 70, App	463	29	55.8	658	11	US-11-096-568A-34302	Sequence 34302, A
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392	29	55.8	308	11	US-11-096-568A-28741	Sequence 28741, A	465	29	55.8	665	9	US-10-784-004-1107	Sequence 1107, App
393	29	55.8	311	7	US-09-978-360A-800	Sequence 800, App	466	29	55.8	668	11	US-11-096-568A-31245	Sequence 31245, A
394	29	55.8	312	11	US-11-226-657-48	Sequence 48, App	467	29	55.8	669	11	US-11-096-568A-34301	Sequence 34301, A
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396	29	55.8	328	9	US-10-993-143-10	Sequence 10, App	469	29	55.8	680	9	US-10-469-469-214	Sequence 214, App
397	29	55.8	337	11	US-11-096-568A-12511	Sequence 12511, A	470	29	55.8	683	11	US-11-096-568A-34300	Sequence 34300, A
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399	29	55.8	357	11	US-11-072-512-2570	Sequence 2570, App	472	29	55.8	684	9	US-10-714-781A-57	Sequence 57, App
400	29	55.8	358	9	US-10-131-826A-416	Sequence 416, App	473	29	55.8	684	9	US-10-714-781A-59	Sequence 59, App
401	29	55.8	358	9	US-10-973-115B-416	Sequence 416, App	474	29	55.8	686	9	US-11-096-568A-31244	Sequence 31244, A
402	29	55.8	358	9	US-10-218-784-138	Sequence 138, App	475	29	55.8	690	11	US-11-096-568A-31244	Sequence 31244, A
403	29	55.8	358	9	US-10-219-061-138	Sequence 138, App	476	29	55.8	691	11	US-11-210-960-6	Sequence 6, App
404	29	55.8	358	9	US-10-219-062-138	Sequence 138, App	477	29	55.8	712	11	US-11-037-443-69	Sequence 69, App
405	29	55.8	358	9	US-10-219-064-138	Sequence 138, App	478	29	55.8	715	11	US-11-096-568A-27552	Sequence 27552, A
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407	29	55.8	358	9	US-10-137-873A-416	Sequence 416, App	480	29	55.8	727	9	US-10-784-004-958	Sequence 958, App
408	29	55.8	358	9	US-10-152-370-416	Sequence 416, App	481	29	55.8	783	9	US-10-204-639-48	Sequence 48, App
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410	29	55.8	358	11	US-11-290-153-416	Sequence 416, App	483	29	55.8	829	11	US-11-096-568A-20149	Sequence 20149, A
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414	29	55.8	375	11	US-11-096-568A-12510	Sequence 12510, A	487	29	55.8	901	11	US-11-188-298-6431	Sequence 6431, App
415	29	55.8	375	11	US-11-188-298-8393	Sequence 8393, App	488	29	55.8	901	11	US-11-188-298-6431	Sequence 18821, A
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417	29	55.8	384	11	US-11-074-176-78	Sequence 78, App	490	29	55.8	993	9	US-10-784-004-1233	Sequence 1233, App
418	29	55.8	410	9	US-10-467-657-4316	Sequence 4316, App	491	29	55.8	1011	9	US-10-877-346-127	Sequence 127, App
419	29	55.8	414	9	US-11-072-512-3015	Sequence 3015, App	492	29	55.8	1198	9	US-10-877-346-35	Sequence 35, App
420	29	55.8	422	11	US-11-169-041-224	Sequence 224, App	493	29	55.8	1221	9	US-10-506-424-49	Sequence 49, App
421	29	55.8	434	11	US-11-156-084-429	Sequence 429, App	494	29	55.8	1275	9	US-10-877-346-36	Sequence 36, App
422	29	55.8	438	11	US-11-096-568A-32128	Sequence 32128, A	495	29	55.8	1299	9	US-10-204-639-70	Sequence 70, App
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427	29	55.8	459	11	US-11-014-842A-23	Sequence 23, App	500	29	55.8	1464	9	US-10-912-971-4	Sequence 4, App
428	29	55.8	459	11	US-11-210-960-5	Sequence 5, App	501	29	55.8	1464	11	US-11-076-074-1	Sequence 1, App
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430	29	55.8	466	11	US-11-087-099-1606	Sequence 1606, App	503	29	55.8	1713	11	US-11-096-568A-30785	Sequence 30785, A
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434	29	55.8	491	9	US-10-219-061-34	Sequence 34, App	507	29	55.8	3433	9	US-10-714-781A-67	Sequence 67, App
435	29	55.8	491	9	US-10-219-062-34	Sequence 34, App	508	29	55.8	3433	9	US-10-714-781A-67	Sequence 67, App
436	29	55.8	491	9	US-10-219-064-34	Sequence 34, App	509	29	55.8	3712	11	US-11-223-729-2	Sequence 2, App
437	29	55.8	491	9	US-10-233-134-44	Sequence 34, App	510	29	55.8	3712	11	US-11-019-711-48	Sequence 48, App
438	29	55.8	501	11	US-11-172-740-441	Sequence 441, App	511	29	55.8	4544	9	US-11-019-711-51	Sequence 51, App
439	29	55.8	504	9	US-11-188-298-18989	Sequence 18989, A	512	29	55.8	4544	9	US-10-501-035-214	Sequence 214, App
440	29	55.8	508	11	US-10-763-712A-78	Sequence 78, App	513	29	55.8	4544	11	US-11-076-427A-32	Sequence 32, App
441	29	55.8	516	11	US-11-024-959-467	Sequence 467, App	514	29	55.8	9	9	US-10-530-061-1171	Sequence 1171, App
442	29	55.8	516	11	US-11-096-568A-18290	Sequence 18290, A	515	28	53.8	11	9	US-10-530-061-577	Sequence 577, App
443	29	55.8	516	11	US-11-096-568A-32126	Sequence 32126, A	516	28	53.8	11	9	US-10-530-061-1247	Sequence 1247, App
444	29	55.8	539	11	US-11-183-136-38	Sequence 38, App	517	28	53.8	15	9	US-10-530-061-1284	Sequence 1284, App
445	29	55.8	539	11	US-11-096-568A-32126	Sequence 38, App	518	28	53.8	15	9	US-10-530-061-1656	Sequence 1656, App
446	29	55.8	595	9	US-10-784-004-774	Sequence 774, App	519	28	53.8	18	11	US-11-033-039-578	Sequence 578, App
447	29	55.8	595	9	US-10-784-004-1108	Sequence 1108, App	520	28	53.8	36	11	US-11-229-769-295	Sequence 295, App
448	29	55.8	604	11	US-11-183-136-2	Sequence 2, App	521	28	53.8	39	11	US-11-144-947-598	Sequence 598, App
449	29	55.8	604	11	US-11-183-136-4	Sequence 4, App	522	28	53.8	41	9	US-10-986-501-286	Sequence 286, App
450	29	55.8	604	11	US-11-046-653-1	Sequence 1, App	523	28	53.8	43	11	US-11-240-769-84	Sequence 84, App
451	29	55.8	609	11	US-11-096-568A-27554	Sequence 27554, A	524	28	53.8	62	11	US-11-188-298-1867	Sequence 3667, App
452	29	55.8	614	11	US-11-072-512-3892	Sequence 3892, App	525	28	53.8	66	11	US-11-172-536-10	Sequence 10, App
453	29	55.8	628	11	US-11-183-136-10	Sequence 10, App	526	28	53.8	75	11	US-11-045-004-2346	Sequence 2346, App
454	29	55.8	628	11	US-11-183-136-12	Sequence 12, App	527	28	53.8	86	11	US-11-188-298-2781	Sequence 2781, App
455	29	55.8	646	11	US-11-096-568A-27553	Sequence 27553, A	528	28	53.8	101	11	US-11-172-740-1550	Sequence 1550, App
456	29	55.8	655	8	US-10-505-928-843	Sequence 843, App	529	28	53.8	101	11	US-11-172-740-1551	Sequence 1551, App
457	29	55.8	655	9	US-10-194-487-418	Sequence 418, App	530	28	53.8	105	11	US-11-172-740-1552	Sequence 1552, App
458	29	55.8	655	9	US-10-195-883-418	Sequence 418, App	531	28	53.8	105	11	US-11-172-740-1551	Sequence 1551, App
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535	28	53.8	110	11	US-11-232-440-61	Sequence 61, Appl	608	28	53.8	321	11	US-11-172-740-1698	Sequence 1698, Ap
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537	28	53.8	117	11	US-11-188-298-22298	Sequence 22298, A	610	28	53.8	321	11	US-11-188-298-1115	Sequence 1115, Ap
538	28	53.8	124	10	US-11-254-189-20	Sequence 20, Appl	611	28	53.8	321	11	US-11-188-298-7609	Sequence 7609, Ap
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543	28	53.8	141	11	US-11-296-017-2	Sequence 2, Appl1	616	28	53.8	332	11	US-11-096-568A-23104	Sequence 23104, A
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549	28	53.8	175	9	US-10-506-454-84	Sequence 84, Appl	622	28	53.8	343	11	US-11-188-298-168	Sequence 2168, Ap
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553	28	53.8	200	11	US-11-096-568A-5879	Sequence 5879, Ap	626	28	53.8	354	11	US-11-087-099-9519	Sequence 9519, Ap
554	28	53.8	205	11	US-11-188-298-9882	Sequence 9882, Ap	627	28	53.8	358	11	US-10-131-826A-252	Sequence 252, App
555	28	53.8	207	11	US-11-072-512-2607	Sequence 2607, Ap	628	28	53.8	361	9	US-10-973-115B-352	Sequence 252, App
556	28	53.8	207	11	US-11-096-568A-998	Sequence 998, App	629	28	53.8	361	9	US-10-137-873A-252	Sequence 252, App
557	28	53.8	208	11	US-11-096-568A-5878	Sequence 5878, Ap	630	28	53.8	361	9	US-10-152-370-252	Sequence 252, App
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559	28	53.8	215	9	US-10-793-626-1580	Sequence 1580, Ap	632	28	53.8	361	11	US-11-087-099-8947	Sequence 8947, Ap
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564	28	53.8	225	9	US-10-243-116-24	Sequence 24, Appl	637	28	53.8	377	11	US-11-188-298-16552	Sequence 16552, A
565	28	53.8	225	9	US-10-243-136-24	Sequence 24, Appl	638	28	53.8	397	11	US-11-087-099-5577	Sequence 5277, Ap
566	28	53.8	225	9	US-10-243-189-24	Sequence 24, Appl	639	28	53.8	397	11	US-11-253-151-33	Sequence 33, Appl
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569	28	53.8	225	9	US-10-243-304-24	Sequence 24, Appl	642	28	53.8	410	9	US-10-763-712A-85	Sequence 85, Appl
570	28	53.8	225	9	US-10-243-318-24	Sequence 24, Appl	643	28	53.8	412	11	US-11-096-568A-18425	Sequence 18425, A
571	28	53.8	225	9	US-10-243-345-24	Sequence 24, Appl	644	28	53.8	414	9	US-10-506-454-813	Sequence 813, App
572	28	53.8	225	9	US-10-243-357-24	Sequence 24, Appl	645	28	53.8	416	11	US-11-195-851-18	Sequence 18, Appl
573	28	53.8	225	9	US-10-245-083-24	Sequence 24, Appl	646	28	53.8	417	11	US-11-098-686-11040	Sequence 11040, A
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576	28	53.8	225	11	US-11-096-568A-27840	Sequence 27840, A	649	28	53.8	419	11	US-11-113-202-23	Sequence 4, Appl1
577	28	53.8	226	11	US-11-183-089-2	Sequence 2, Appl1	650	28	53.8	419	11	US-11-205-225-4	Sequence 5017, Ap
578	28	53.8	226	11	US-11-132-285-5	Sequence 5, Appl1	651	28	53.8	424	11	US-11-096-568A-5017	Sequence 5017, Ap
579	28	53.8	221	11	US-11-132-285-61	Sequence 61, Appl	652	28	53.8	424	11	US-11-087-099-12206	Sequence 12206, A
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581	28	53.8	235	11	US-11-126-126-16	Sequence 16, Appl	654	28	53.8	429	11	US-11-150-533-43	Sequence 43, Appl
582	28	53.8	241	11	US-11-264-096-1994	Sequence 1994, Ap	655	28	53.8	432	11	US-11-150-533-3	Sequence 3, Appl1
583	28	53.8	244	11	US-11-096-568A-997	Sequence 997, App	656	28	53.8	436	9	US-10-506-454-1644	Sequence 1644, Ap
584	28	53.8	245	11	US-11-079-463-5960	Sequence 5960, Ap	657	28	53.8	436	11	US-11-124-368A-1815	Sequence 1815, App
585	28	53.8	256	11	US-11-096-568A-22905	Sequence 22905, A	658	28	53.8	447	11	US-11-096-568A-26113	Sequence 26113, A
586	28	53.8	257	11	US-11-096-568A-5877	Sequence 5877, Ap	659	28	53.8	448	11	US-10-467-657-604	Sequence 604, App
587	28	53.8	265	11	US-11-098-686-11356	Sequence 11356, A	660	28	53.8	448	11	US-10-511-937-2945	Sequence 2945, App
588	28	53.8	265	11	US-11-096-568A-23105	Sequence 23105, A	661	28	53.8	461	8	US-10-511-937-2945	Sequence 2945, App
589	28	53.8	269	11	US-11-096-568A-13559	Sequence 13559, A	662	28	53.8	461	9	US-10-523-328-5	Sequence 32, Appl1
590	28	53.8	275	11	US-11-199-544-67	Sequence 67, Appl	663	28	53.8	461	10	US-11-183-218-32	Sequence 32, Appl1
591	28	53.8	288	11	US-11-079-463-9342	Sequence 9342, Ap	664	28	53.8	461	11	US-11-132-285-6	Sequence 6, Appl1
592	28	53.8	293	11	US-11-096-568A-12684	Sequence 12684, A	665	28	53.8	461	11	US-11-183-203-32	Sequence 32, Appl1
593	28	53.8	296	11	US-11-229-769-293	Sequence 293, App	666	28	53.8	461	11	US-11-183-203-32	Sequence 32, Appl1
594	28	53.8	296	11	US-10-967-527A-17	Sequence 17, Appl	667	28	53.8	461	11	US-11-183-203-32	Sequence 32, Appl1
595	28	53.8	297	9	US-10-967-527A-17	Sequence 25714, A	668	28	53.8	463	11	US-11-031-206-126	Sequence 126, App
596	28	53.8	299	11	US-11-188-298-2988	Sequence 2988, Ap	669	28	53.8	463	11	US-11-188-299-14035	Sequence 14035, A
597	28	53.8	300	11	US-11-096-568A-26115	Sequence 26115, A	670	28	53.8	469	11	US-10-995-561-566	Sequence 566, App
598	28	53.8	302	11	US-11-096-568A-25713	Sequence 25713, A	671	28	53.8	469	11	US-10-973-115B-192	Sequence 192, App
599	28	53.8	306	11	US-11-264-096-1601	Sequence 1601, Ap	672	28	53.8	469	11	US-10-137-873A-192	Sequence 192, App
600	28	53.8	307	11	US-11-096-568A-27839	Sequence 27839, Ap	673	28	53.8	469	11	US-10-152-370-192	Sequence 192, App
601	28	53.8	310	11	US-11-079-463-9199	Sequence 9199, Ap	674	28	53.8	469	11	US-11-290-153-192	Sequence 192, App
602	28	53.8	311	11	US-11-087-099-7611	Sequence 7611, Ap	675	28	53.8	469	11	US-11-290-153-192	Sequence 192, App
603	28	53.8	312	11	US-11-096-568A-5358	Sequence 5358, App	676	28	53.8	469	11	US-11-290-153-192	Sequence 192, App
604	28	53.8	312	11	US-11-096-568A-5358	Sequence 5358, App	677	28	53.8	469	11	US-11-290-153-192	Sequence 192, App
605	28	53.8	312	11	US-11-079-463-7771	Sequence 7771, Ap	678	28	53.8	469	11	US-11-290-153-192	Sequence 192, App

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680	28	53.8	542	9	US-10-178-264-17	Sequence 17, Appl	753	28	53.8	844	9	US-10-453-372-856	Sequence 856, App
681	28	53.8	542	9	US-10-718-264-17	Sequence 17, Appl	754	28	53.8	857	11	US-11-036-568A-28238	Sequence 28238, A
682	28	53.8	542	11	US-11-176-667-17	Sequence 17, Appl	755	28	53.8	875	11	US-11-036-568A-31027	Sequence 31027, A
683	28	53.8	546	11	US-11-188-298-21426	Sequence 21426, A	756	28	53.8	879	11	US-11-036-568A-30505	Sequence 30505, A
684	28	53.8	551	11	US-11-126-022-6	Sequence 6, Appl	757	28	53.8	890	11	US-11-106-623-28	Sequence 28, Appl
685	28	53.8	559	11	US-11-096-568A-27572	Sequence 27572, A	758	28	53.8	913	11	US-11-036-568A-31026	Sequence 31026, A
686	28	53.8	582	11	US-11-205-225-10	Sequence 10, Appl	759	28	53.8	933	8	US-10-511-455-50	Sequence 50, Appl
687	28	53.8	582	11	US-11-205-225-10	Sequence 10, Appl	760	28	53.8	934	11	US-11-036-568A-31293	Sequence 31293, A
688	28	53.8	589	11	US-11-096-568A-18424	Sequence 18424, A	761	28	53.8	954	11	US-11-079-463-6804	Sequence 6804, Ap
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690	28	53.8	632	11	US-11-188-298-92119	Sequence 92119, Ap	763	28	53.8	959	11	US-11-036-568A-28237	Sequence 28237, A
691	28	53.8	632	11	US-11-213-326-4	Sequence 4, Appl	764	28	53.8	959	11	US-11-036-568A-28237	Sequence 28237, A
692	28	53.8	632	11	US-11-249-893-12	Sequence 12, Appl	765	28	53.8	961	9	US-10-831-997-4	Sequence 4, Appl
693	28	53.8	642	11	US-11-098-686-10286	Sequence 10286, A	766	28	53.8	963	11	US-11-036-568A-31292	Sequence 31292, A
694	28	53.8	645	11	US-11-154-337-13	Sequence 13, Appl	767	28	53.8	964	11	US-11-089-551A-30	Sequence 30, Appl
695	28	53.8	645	11	US-11-223-361-13	Sequence 13, Appl	768	28	53.8	964	11	US-11-036-568A-31291	Sequence 31291, A
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697	28	53.8	645	11	US-11-223-587-13	Sequence 13, Appl	770	28	53.8	1139	11	US-11-213-326-10	Sequence 10, Appl
698	28	53.8	645	11	US-11-234-586-13	Sequence 13, Appl	771	28	53.8	1206	9	US-11-036-568A-27582	Sequence 27582, A
699	28	53.8	646	11	US-11-213-326-6	Sequence 6, Appl	772	28	53.8	1206	9	US-10-467-657-72	Sequence 72, Appl
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702	28	53.8	667	11	US-11-150-533-24	Sequence 24, Appl	775	28	53.8	1238	11	US-11-078-735-21	Sequence 21, Appl
703	28	53.8	675	11	US-11-150-533-12	Sequence 12, Appl	776	28	53.8	1238	11	US-11-050-346-66	Sequence 66, Appl
704	28	53.8	686	11	US-11-213-326-2	Sequence 2, Appl	777	28	53.8	1238	11	US-11-103-077-21	Sequence 21, Appl
705	28	53.8	686	11	US-11-195-009-7	Sequence 7, Appl	778	28	53.8	1240	11	US-11-058-066-21	Sequence 21, Appl
706	28	53.8	686	11	US-11-249-893-2	Sequence 2, Appl	779	28	53.8	1255	9	US-11-036-568A-27580	Sequence 27580, A
707	28	53.8	686	11	US-11-249-893-3	Sequence 3, Appl	780	28	53.8	1255	11	US-11-022-562-213	Sequence 213, App
708	28	53.8	686	11	US-11-249-893-4	Sequence 4, Appl	781	28	53.8	1255	11	US-11-113-402-10	Sequence 10, Appl
709	28	53.8	686	11	US-11-249-893-5	Sequence 5, Appl	782	28	53.8	1255	11	US-11-033-039-553	Sequence 553, App
710	28	53.8	686	11	US-11-249-893-6	Sequence 6, Appl	783	28	53.8	1255	11	US-11-155-288-9	Sequence 9, Appl
711	28	53.8	686	11	US-11-249-893-7	Sequence 7, Appl	784	28	53.8	1255	11	US-11-202-516-4	Sequence 4, Appl
712	28	53.8	686	11	US-11-249-893-8	Sequence 8, Appl	785	28	53.8	1255	11	US-11-175-405-2	Sequence 2, Appl
713	28	53.8	686	11	US-11-249-893-9	Sequence 9, Appl	786	28	53.8	1257	11	US-11-022-478-6	Sequence 6, Appl
714	28	53.8	686	11	US-11-249-893-10	Sequence 10, Appl	787	28	53.8	1258	11	US-11-033-039-930	Sequence 930, App
715	28	53.8	688	11	US-11-249-893-11	Sequence 11, Appl	788	28	53.8	1275	11	US-11-188-298-12889	Sequence 12889, A
716	28	53.8	692	11	US-11-150-533-2	Sequence 2, Appl	789	28	53.8	1306	11	US-11-188-298-7550	Sequence 7550, Ap
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718	28	53.8	705	9	US-10-063-703-162	Sequence 162, App	791	28	53.8	1401	11	US-11-188-298-13416	Sequence 13416, A
719	28	53.8	705	9	US-10-194-487-598	Sequence 598, App	792	28	53.8	1404	9	US-10-878-556A-169	Sequence 169, App
720	28	53.8	705	9	US-10-195-883-598	Sequence 598, App	793	28	53.8	1604	11	US-11-019-711-49	Sequence 49, Appl
721	28	53.8	705	9	US-10-195-888-598	Sequence 598, App	794	28	53.8	1640	11	US-11-019-711-8	Sequence 8, Appl
722	28	53.8	705	9	US-10-195-889-598	Sequence 598, App	795	28	53.8	1645	8	US-10-505-928-582	Sequence 582, App
723	28	53.8	705	10	US-11-311-555-14	Sequence 14, Appl	796	28	53.8	1669	9	US-10-330-773-352	Sequence 352, App
724	28	53.8	705	10	US-11-311-561-14	Sequence 14, Appl	797	28	53.8	1690	9	US-11-195-009-2	Sequence 389, App
725	28	53.8	705	11	US-11-102-240-162	Sequence 162, App	798	28	53.8	1771	11	US-11-195-009-4	Sequence 4, Appl
726	28	53.8	705	11	US-11-150-533-11	Sequence 11, Appl	799	28	53.8	1771	11	US-11-195-009-9	Sequence 9, Appl
727	28	53.8	705	11	US-11-103-195-162	Sequence 162, App	800	28	53.8	1771	11	US-11-195-009-9	Sequence 9, Appl
728	28	53.8	705	11	US-11-188-298-20662	Sequence 20662, A	801	28	53.8	1828	11	US-11-126-022-23	Sequence 23, Appl
729	28	53.8	708	11	US-11-150-533-65	Sequence 65, Appl	802	28	53.8	1852	11	US-11-126-022-21	Sequence 21, Appl
730	28	53.8	720	9	US-10-063-703-38	Sequence 38, Appl	803	28	53.8	1863	11	US-11-126-022-9	Sequence 9, Appl
731	28	53.8	720	9	US-10-194-487-170	Sequence 170, App	804	28	53.8	1863	11	US-11-126-022-2	Sequence 2, Appl
732	28	53.8	720	9	US-10-195-883-170	Sequence 170, App	805	28	53.8	1863	11	US-11-126-022-18	Sequence 18, Appl
733	28	53.8	720	9	US-10-195-888-170	Sequence 170, App	806	28	53.8	1863	11	US-11-131-901-6	Sequence 6, Appl
734	28	53.8	720	9	US-10-195-889-170	Sequence 170, App	807	28	53.8	1863	11	US-11-126-022-10	Sequence 10, Appl
735	28	53.8	720	11	US-11-103-195-38	Sequence 38, Appl	808	28	53.8	1863	11	US-11-126-022-15	Sequence 15, Appl
736	28	53.8	720	11	US-11-079-463-8113	Sequence 8113, Ap	809	28	53.8	1863	11	US-11-126-022-16	Sequence 16, Appl
737	28	53.8	728	11	US-11-079-463-8113	Sequence 8113, Ap	810	28	53.8	1863	11	US-11-126-022-17	Sequence 17, Appl
738	28	53.8	753	9	US-10-467-657-6852	Sequence 6852, Ap	811	28	53.8	1863	11	US-11-126-022-18	Sequence 18, Appl
739	28	53.8	753	9	US-10-467-657-6852	Sequence 6852, Ap	812	28	53.8	1892	10	US-11-131-901-6	Sequence 6, Appl
740	28	53.8	767	9	US-10-467-657-6630	Sequence 6630, Ap	813	28	53.8	1892	11	US-11-195-009-13	Sequence 13, Appl
741	28	53.8	768	9	US-10-330-773-959	Sequence 959, App	814	28	53.8	1911	11	US-11-195-009-17	Sequence 17, Appl
742	28	53.8	791	11	US-11-072-512-3296	Sequence 3296, Ap	815	28	53.8	1911	11	US-11-195-009-19	Sequence 19, Appl
743	28	53.8	796	11	US-11-098-686-10952	Sequence 10952, A	816	28	53.8	1944	11	US-11-195-009-15	Sequence 15, Appl
744	28	53.8	808	9	US-10-523-503-24	Sequence 24, Appl	817	28	53.8	1985	11	US-11-173-792-3	Sequence 3, Appl
745	28	53.8	808	11	US-11-072-512-2324	Sequence 2324, Ap	818	28	53.8	1985	11	US-11-173-792-15	Sequence 15, Appl
746	28	53.8	825	11	US-11-200-296B-6	Sequence 6, Appl	819	28	53.8	1985	11	US-11-173-792-17	Sequence 17, Appl
747	28	53.8	825	11	US-11-200-296B-10	Sequence 10, Appl	820	28	53.8	1985	11	US-11-173-792-17	Sequence 17, Appl
748	28	53.8	825	11	US-11-200-296B-12	Sequence 12, Appl	821	28	53.8	2280	11	US-11-022-562-211	Sequence 211, App
749	28	53.8	838	9	US-10-645-441-9	Sequence 9, Appl	822	28	53.8	2589	11	US-11-216-660-9	Sequence 9, Appl
750	28	53.8	839	9	US-10-125-475-6	Sequence 6, Appl	823	28	53.8	3011	9	US-10-985-205-3	Sequence 3, Appl
751	28	53.8	839	11	US-11-050-804-4	Sequence 4, Appl	824	28	53.8	3597	11	US-11-019-711-6	Sequence 6, Appl

825	28	53.8	3600	11	US-11-019-711-2	Sequence 2, Appl1	898	27	51.9	277	11	US-11-096-568A-19174	Sequence 19174, A
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827	27.5	52.9	187	11	US-11-096-568A-1318	Sequence 1318, Ap	900	27	51.9	278	9	US-10-495-597-10	Sequence 10, Appl
828	27.5	52.9	392	11	US-11-188-298-8492	Sequence 8492, Ap	901	27	51.9	286	11	US-11-188-298-16264	Sequence 16264, A
829	27.5	52.9	702	11	US-11-188-298-2115	Sequence 2115, Ap	902	27	51.9	288	11	US-11-096-568A-31742	Sequence 31742, A
830	27.5	52.9	708	9	US-10-623-155-369	Sequence 369, App	903	27	51.9	292	11	US-11-055-822-940	Sequence 940, App
831	27	51.9	12	11	US-11-004-399-2984	Sequence 2984, Ap	904	27	51.9	293	11	US-11-096-568A-26162	Sequence 26162, A
832	27	51.9	13	11	US-11-116-144-271	Sequence 271, App	905	27	51.9	297	11	US-11-172-740-1580	Sequence 1580, App
833	27	51.9	13	11	US-11-220-372-271	Sequence 271, App	906	27	51.9	298	11	US-11-087-099-6089	Sequence 6089, Ap
834	27	51.9	14	11	US-11-129-741-3420	Sequence 3420, Ap	907	27	51.9	299	11	US-11-192-374-5	Sequence 12, Appl
835	27	51.9	19	9	US-10-503-575-199	Sequence 199, App	908	27	51.9	299	11	US-11-154-293-24	Sequence 24, Appl
836	27	51.9	24	11	US-11-004-399-1937	Sequence 1937, Ap	909	27	51.9	301	11	US-11-172-740-1580	Sequence 1580, Ap
837	27	51.9	23	11	US-11-119-293-34	Sequence 34, Appl	910	27	51.9	305	11	US-11-113-424-58	Sequence 58, Appl
838	27	51.9	33	11	US-11-121-301-74	Sequence 166, App	911	27	51.9	310	9	US-10-506-454-396	Sequence 396, App
839	27	51.9	36	9	US-10-957-351-166	Sequence 166, App	912	27	51.9	310	11	US-11-018-018-5	Sequence 5, Appl1
840	27	51.9	37	9	US-10-971-559-17	Sequence 17, App1	913	27	51.9	310	11	US-11-047-757-5	Sequence 23, Appl
841	27	51.9	61	9	US-10-207-797-178	Sequence 178, App	914	27	51.9	310	11	US-11-166-892-23	Sequence 5, Appl1
842	27	51.9	9	9	US-10-506-454-1667	Sequence 1667, Ap	915	27	51.9	310	11	US-11-048-490-5	Sequence 14, Appl
843	27	51.9	75	11	US-11-079-463-9261	Sequence 9191, Ap	916	27	51.9	310	11	US-11-074-374-14	Sequence 26352, A
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845	27	51.9	104	11	US-11-087-099-3565	Sequence 3565, Ap	918	27	51.9	310	11	US-11-077-664-5	Sequence 22, Appl
846	27	51.9	104	11	US-11-096-568A-14307	Sequence 14307, A	919	27	51.9	310	11	US-11-154-293-22	Sequence 7594, Ap
847	27	51.9	104	11	US-11-188-298-14340	Sequence 14340, A	920	27	51.9	316	11	US-11-087-099-7594	Sequence 2, Appl1
848	27	51.9	106	11	US-11-087-099-9034	Sequence 9034, Ap	921	27	51.9	318	9	US-10-329-258-2	Sequence 250, App
849	27	51.9	118	11	US-11-188-298-19026	Sequence 19026, A	922	27	51.9	318	11	US-11-096-568A-250	Sequence 4, Appl1
850	27	51.9	119	9	US-10-506-454-20	Sequence 20, Appl	923	27	51.9	321	9	US-10-509-484-4	Sequence 17337, A
851	27	51.9	123	11	US-11-079-463-5388	Sequence 5388, Ap	924	27	51.9	321	11	US-11-096-568A-17337	Sequence 75, Appl
852	27	51.9	131	11	US-11-072-512-3483	Sequence 3483, Ap	925	27	51.9	326	11	US-11-229-371-75	Sequence 75, Appl1
853	27	51.9	139	11	US-11-096-568A-14270	Sequence 14270, A	926	27	51.9	326	11	US-11-228-923-75	Sequence 75, Appl
854	27	51.9	142	9	US-10-467-657-1558	Sequence 1558, Ap	927	27	51.9	326	11	US-11-228-875-75	Sequence 3, Appl1
855	27	51.9	146	9	US-10-648-361-21	Sequence 21, Appl	928	27	51.9	331	11	US-11-185-878-3	Sequence 55, Appl
856	27	51.9	148	11	US-11-079-463-9262	Sequence 9262, Ap	929	27	51.9	332	11	US-11-113-424-55	Sequence 6, Appl1
857	27	51.9	154	11	US-11-172-740-1275	Sequence 1275, Ap	930	27	51.9	334	9	US-10-514-057-6	Sequence 7, Appl1
858	27	51.9	163	11	US-11-079-463-6596	Sequence 6596, Ap	931	27	51.9	335	11	US-11-182-994-7	Sequence 1312, Ap
859	27	51.9	164	11	US-11-096-568A-18435	Sequence 18435, A	932	27	51.9	336	11	US-11-087-099-1312	Sequence 191, App
860	27	51.9	165	11	US-11-134-811-79	Sequence 79, Appl	933	27	51.9	336	11	US-11-264-096-191	Sequence 10224, A
861	27	51.9	170	11	US-11-188-298-9743	Sequence 9743, Ap	934	27	51.9	337	11	US-11-079-463-10224	Sequence 2865, Ap
862	27	51.9	175	11	US-11-153-071-18	Sequence 18, Appl	935	27	51.9	338	11	US-11-087-099-2866	Sequence 14629, A
863	27	51.9	177	11	US-11-072-512-3583	Sequence 3583, Ap	936	27	51.9	338	11	US-11-096-568A-14629	Sequence 19173, A
864	27	51.9	178	11	US-11-188-298-1624	Sequence 1624, Ap	937	27	51.9	339	11	US-11-087-099-4046	Sequence 4046, Ap
865	27	51.9	180	11	US-11-153-071-14	Sequence 14, Appl	938	27	51.9	344	11	US-11-188-298-14770	Sequence 14770, A
866	27	51.9	181	11	US-11-188-298-2241	Sequence 2241, Ap	939	27	51.9	346	11	US-11-087-099-6707	Sequence 6707, Ap
867	27	51.9	185	11	US-11-096-568A-14269	Sequence 14269, A	940	27	51.9	346	11	US-11-087-099-6707	Sequence 2052, Ap
868	27	51.9	194	11	US-11-087-099-3659	Sequence 3659, Ap	941	27	51.9	346	11	US-11-087-099-2052	Sequence 5198, Ap
869	27	51.9	201	11	US-11-087-099-592	Sequence 592, App	942	27	51.9	346	11	US-11-087-099-8797	Sequence 8797, Ap
870	27	51.9	213	11	US-11-096-568A-20459	Sequence 20459, A	943	27	51.9	346	11	US-11-096-568A-23593	Sequence 11042, A
871	27	51.9	214	11	US-11-087-099-8970	Sequence 8970, Ap	944	27	51.9	346	11	US-11-087-099-11047	Sequence 12047, A
872	27	51.9	216	9	US-11-096-568A-23595	Sequence 23595, A	945	27	51.9	346	11	US-11-188-298-11106	Sequence 6748, Ap
873	27	51.9	219	9	US-10-330-773-752	Sequence 752, App	946	27	51.9	348	11	US-11-087-099-6748	Sequence 16779, A
874	27	51.9	219	11	US-11-079-463-9752	Sequence 9752, Ap	948	27	51.9	348	11	US-11-188-298-16779	Sequence 23593, A
875	27	51.9	222	9	US-10-467-657-7990	Sequence 7990, Ap	949	27	51.9	352	11	US-11-096-568A-26351	Sequence 26351, A
876	27	51.9	222	11	US-11-096-568A-17995	Sequence 17995, A	950	27	51.9	354	11	US-10-467-657-6970	Sequence 6970, Ap
877	27	51.9	223	9	US-10-921-286B-9	Sequence 9, Appl1	951	27	51.9	358	9	US-10-991-885-883	Sequence 883, App
878	27	51.9	224	9	US-10-942-698-11	Sequence 11, Appl	952	27	51.9	359	11	US-11-096-568A-20458	Sequence 38, Appl
879	27	51.9	228	11	US-11-096-568A-19175	Sequence 19175, A	953	27	51.9	364	11	US-11-012-762-38	Sequence 17994, A
880	27	51.9	228	11	US-11-096-568A-26991	Sequence 26991, A	954	27	51.9	364	11	US-11-096-568A-17994	Sequence 1085, Ap
881	27	51.9	232	9	US-10-506-454-804	Sequence 804, App	955	27	51.9	366	11	US-11-087-099-1085	Sequence 11516, A
882	27	51.9	232	11	US-11-096-568A-26990	Sequence 26990, A	956	27	51.9	366	11	US-11-087-099-11516	Sequence 17336, A
883	27	51.9	244	11	US-11-096-568A-26163	Sequence 26163, A	957	27	51.9	372	11	US-11-096-568A-17336	Sequence 8724, Ap
884	27	51.9	255	11	US-11-188-298-19575	Sequence 19575, A	958	27	51.9	373	11	US-11-079-463-8724	Sequence 883, App
885	27	51.9	257	11	US-11-096-568A-16683	Sequence 16683, A	959	27	51.9	376	9	US-10-991-885-883	Sequence 8, Appl1
886	27	51.9	258	11	US-11-172-740-1581	Sequence 1581, Ap	960	27	51.9	380	11	US-11-188-298-1262	Sequence 1262, Ap
887	27	51.9	259	11	US-11-172-740-1582	Sequence 1582, Ap	961	27	51.9	381	11	US-11-188-298-14628	Sequence 14628, A
888	27	51.9	259	11	US-11-188-298-11978	Sequence 11978, A	962	27	51.9	382	11	US-11-096-568A-20457	Sequence 17335, A
889	27	51.9	260	8	US-10-511-937-2519	Sequence 2519, Ap	963	27	51.9	385	11	US-11-096-568A-17335	Sequence 19315, A
890	27	51.9	260	11	US-11-182-946-8	Sequence 8, Appl1	964	27	51.9	385	11	US-11-188-298-19315	Sequence 26350, A
891	27	51.9	262	11	US-11-087-099-10521	Sequence 10521, A	965	27	51.9	387	11	US-11-096-568A-26350	Sequence 21395, A
892	27	51.9	263	11	US-11-188-298-2773	Sequence 2773, Ap	966	27	51.9	391	11	US-11-188-298-21395	Sequence 26989, A
893	27	51.9	264	11	US-11-087-099-7999	Sequence 7999, Ap	967	27	51.9	393	11	US-11-096-568A-26989	Sequence 26989, A
894	27	51.9	269	11	US-11-087-099-7592	Sequence 7592, Ap	968	27	51.9	400	11	US-11-079-463-5263	Sequence 5263, Ap
895	27	51.9	272	11	US-11-188-298-831	Sequence 831, App	969	27	51.9				
896	27	51.9	271	11	US-11-188-298-8374	Sequence 8374, Ap	970	27	51.9				
897	27	51.9	276	11	US-11-096-568A-14630	Sequence 14630, A							

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971 27 51.9 416 11 US-11-087-099-1321 Sequence 1321, Ap
972 27 51.9 417 9 US-10-194-487-474 Sequence 474, App
973 27 51.9 417 9 US-10-195-883-474 Sequence 474, App
974 27 51.9 417 9 US-10-195-888-474 Sequence 474, App
975 27 51.9 417 9 US-10-195-889-474 Sequence 474, App
976 27 51.9 417 9 US-10-218-784-220 Sequence 220, App
977 27 51.9 417 9 US-10-219-061-220 Sequence 220, App
978 27 51.9 417 9 US-10-219-061-220 Sequence 220, App
979 27 51.9 417 9 US-10-219-064-220 Sequence 220, App
980 27 51.9 417 9 US-10-233-134-220 Sequence 220, App
981 27 51.9 417 11 US-11-195-851-16 Sequence 16, App
982 27 51.9 418 11 US-11-079-463-8151 Sequence 8151, Ap
983 27 51.9 421 11 US-11-087-099-11711 Sequence 11711, A
984 27 51.9 422 11 US-11-188-298-1678 Sequence 1678, A
985 27 51.9 423 11 US-11-195-851-2 Sequence 2, App
986 27 51.9 423 11 US-11-195-851-4 Sequence 4, App
987 27 51.9 423 11 US-11-195-851-6 Sequence 6, App
988 27 51.9 427 11 US-11-182-946-5 Sequence 5, App
989 27 51.9 427 11 US-11-185-878-4 Sequence 4, App
990 27 51.9 429 10 US-11-302-678-53 Sequence 53, App
991 27 51.9 436 8 US-10-511-937-2530 Sequence 2530, Ap
992 27 51.9 438 11 US-11-230-251-27 Sequence 27, App
993 27 51.9 440 11 US-11-054-168B-18 Sequence 18, App
994 27 51.9 441 11 US-11-024-959-410 Sequence 410, App
995 27 51.9 444 11 US-11-188-298-16332 Sequence 16332, A
996 27 51.9 447 11 US-11-024-958-286 Sequence 286, App
997 27 51.9 447 11 US-11-087-099-979 Sequence 979, App
998 27 51.9 452 11 US-11-096-568A-31741 Sequence 31741, A
999 27 51.9 452 11 US-11-045-004-2456 Sequence 2456, Ap
1000 27 51.9 457 11 US-11-098-686-11046 Sequence 11046, A
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ALIGNMENTS

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RESULT 1
US-10-530-061-502
; Sequence 502, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.03US02/EKS/M-M
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: US/10/530,061
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2002-10-03
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 502
; LENGTH: 10
; TYPE: PR
; ORGANISM: Human papillomavirus
US-10-530-061-502

Query Match 100.0%; Score 52; DB 9; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.0046;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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QY 1 AVCDKCLKF 9
Db 1 AVCDKCLKF 9

RESULT 2
US-10-530-061-781
; Sequence 781, Application US/10530061
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; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.03US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 781
; LENGTH: 11
; TYPE: PR
; ORGANISM: Human papillomavirus
US-10-530-061-781

Query Match 100.0%; Score 52; DB 9; Length 11;
Best Local Similarity 100.0%; Pred. No. 0.0049;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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RESULT 3
US-10-530-253-13
; Sequence 13, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Casabelli, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/1004137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 13
; LENGTH: 151
; TYPE: PR
; ORGANISM: Human papillomavirus type 16
US-10-530-253-13
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QY 1 AVCDKCLKF 9
Db 61 AVCDKCLKF 69

Query Match 100.0%; Score 52; DB 9; Length 151;
Best Local Similarity 100.0%; Pred. No. 0.045;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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RESULT 4
US-11-206-138-3
; Sequence 3, Application US/11206138
; Publication No. US20060039919A1
; GENERAL INFORMATION:
; APPLICANT: HealthBanks Biotech CO. LTD.
; TITLE OF INVENTION: Fusion protein for inhibiting cervical cancer
```

FILE REFERENCE: P7819/0613
CURRENT APPLICATION NUMBER: US/11/206,138
CURRENT FILING DATE: 2005-08-18
NUMBER OF SEQ ID NOS: 14
SOFTWARE: PatentIn version 3.3
SEQ ID NO 3
LENGTH: 158
TYPE: PRT
ORGANISM: Human papillomavirus type 16
US-11-206-138-3

Query Match 100.0%; Score 52; DB 11; Length 158;
Best Local Similarity 100.0%; Pred. No. 0.047;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AVCDKCLKF 9
DB 68 AVCDKCLKF 76

RESULT 5
US-10-530-253-1
Sequence 1, Application US/10530253
Publication No. US20060014926A1
GENERAL INFORMATION:
APPLICANT: Cassecci, Maria C.
APPLICANT: Smith, Larry
APPLICANT: Jeffrey K. Pullen
APPLICANT: Susan P. McElhinney
TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
FILE REFERENCE: 00630/100M137-US2
CURRENT APPLICATION NUMBER: US/10/530,253
CURRENT FILING DATE: 2005-04-04
PRIOR APPLICATION NUMBER: PCT/US2003/031726
PRIOR FILING DATE: 2003-10-02
PRIOR APPLICATION NUMBER: US 60/415,929
PRIOR FILING DATE: 2002-10-03
NUMBER OF SEQ ID NOS: 65
SOFTWARE: PatentIn version 3.1
SEQ ID NO 1
LENGTH: 248
TYPE: PRT
ORGANISM: Human papillomavirus type 16
US-10-530-253-1

Query Match 100.0%; Score 52; DB 9; Length 248;
Best Local Similarity 100.0%; Pred. No. 0.069;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AVCDKCLKF 9
DB 61 AVCDKCLKF 69

RESULT 6
US-10-530-253-7
Sequence 7, Application US/10530253
Publication No. US20060014926A1
GENERAL INFORMATION:
APPLICANT: Cassecci, Maria C.
APPLICANT: Smith, Larry
APPLICANT: Jeffrey K. Pullen
APPLICANT: Susan P. McElhinney
TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
FILE REFERENCE: 00630/100M137-US2
CURRENT APPLICATION NUMBER: US/10/530,253
CURRENT FILING DATE: 2005-04-04
PRIOR APPLICATION NUMBER: PCT/US2003/031726
PRIOR FILING DATE: 2003-10-02
PRIOR APPLICATION NUMBER: US 60/415,929
PRIOR FILING DATE: 2002-10-03
NUMBER OF SEQ ID NOS: 65
SOFTWARE: PatentIn version 3.1

SEQ ID NO 7
LENGTH: 248
TYPE: PRT
ORGANISM: Human papillomavirus type 16
US-10-530-253-7

Query Match 100.0%; Score 52; DB 9; Length 248;
Best Local Similarity 100.0%; Pred. No. 0.069;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AVCDKCLKF 9
DB 158 AVCDKCLKF 166

RESULT 7
US-11-192-923A-2
Sequence 2, Application US/11192923A
Publication No. US20060018928A1
GENERAL INFORMATION:
APPLICANT: PANG, XIAOWU
TITLE OF INVENTION: VIRUS-LIKE PARTICLE CONTAINING A DENGUE VIRUS
FILE REFERENCE: 116620-003
CURRENT APPLICATION NUMBER: US/11/192,923A
CURRENT FILING DATE: 2005-07-29
PRIOR APPLICATION NUMBER: CN 03115272.4
PRIOR FILING DATE: 2003-01-30
PRIOR APPLICATION NUMBER: CN 03115273.2
PRIOR FILING DATE: 2003-01-30
NUMBER OF SEQ ID NOS: 45
SOFTWARE: PatentIn Ver. 3.3
SEQ ID NO 2
LENGTH: 256
TYPE: PRT
ORGANISM: Human papillomavirus
US-11-192-923A-2

Query Match 100.0%; Score 52; DB 11; Length 256;
Best Local Similarity 100.0%; Pred. No. 0.071;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AVCDKCLKF 9
DB 166 AVCDKCLKF 174

RESULT 8
US-10-530-061-501
Sequence 501, Application US/10530061
Publication No. US20060079453A1
GENERAL INFORMATION:
APPLICANT: SOUTHWOOD, SCOTT
APPLICANT: SETTE, ALESSANDRO
TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
FILE REFERENCE: 2060.03US02/EKS/M-M
CURRENT APPLICATION NUMBER: US/10/530,061
CURRENT FILING DATE: 2005-04-04
PRIOR APPLICATION NUMBER: PCT/US03/31308
PRIOR FILING DATE: 2003-10-03
PRIOR APPLICATION NUMBER: 60/416,207
PRIOR FILING DATE: 2002-10-03
PRIOR APPLICATION NUMBER: 60/417,269
PRIOR FILING DATE: 2002-10-08
NUMBER OF SEQ ID NOS: 2503
SOFTWARE: PatentIn version 3.3
SEQ ID NO 501
LENGTH: 10
TYPE: PRT
ORGANISM: Human papillomavirus
US-10-530-061-501

Query Match 92.3%; Score 48; DB 9; Length 10;
Best Local Similarity 88.9%; Pred. No. 0.021;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 AVCDKCLK 9
DB 1 ATCDKCLK 9

RESULT 9
US-10-506-454-517
; Sequence 517, Application US/10506454
; Publication No. US20060068386A1
; GENERAL INFORMATION:

; APPLICANT: Slesarev, Alexi I
; APPLICANT: Mezhevaya, Katya V
; APPLICANT: Polushin, Nikolai N
; APPLICANT: Shcherbina, Olga V
; APPLICANT: Shakhova, Vera V
; APPLICANT: Mal'kh, Andrei G
; APPLICANT: Koz'yavkin, Sergei A
; TITLE OF INVENTION: The Complete Genome and Protein Sequences of the Hyperthermophile
; TITLE OF INVENTION: Methanopyrus Kandleri AV19 and Monophyly of Archaeal Methanogens
; FILE REFERENCE: FID001
; CURRENT APPLICATION NUMBER: US/10/506,454
; PRIOR FILING DATE: 2004-08-31
; PRIOR APPLICATION NUMBER: PCT/US03/06664
; PRIOR FILING DATE: 2003-03-04
; PRIOR APPLICATION NUMBER: 60/361,742
; PRIOR FILING DATE: 2002-03-04
; NUMBER OF SEQ ID NOS: 1722
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 517
; LENGTH: 354
; TYPE: PRF
; ORGANISM: Methanopyrus kandleri

US-10-506-454-517

Query Match 84.6%; Score 44; DB 9; Length 354;
Best Local Similarity 66.7%; Pred. No. 2.1;
Matches 6; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY 1 AVCDKCLK 9
DB 134 ALCDRCMKF 142

RESULT 10
US-10-530-061-604
; Sequence 604, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:

; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.033US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; PRIOR FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 604
; LENGTH: 9
; TYPE: PRF
; ORGANISM: Human papillomavirus

US-10-530-061-604

Query Match 82.7%; Score 43; DB 9; Length 9;
Best Local Similarity 87.5%; Pred. No. 1.9e+05;
Matches 7; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 AVCDKCLK 8
DB 2 AVCDKCLK 9

RESULT 11
US-10-530-061-603
; Sequence 603, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:

; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.033US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 603
; LENGTH: 9
; TYPE: PRF
; ORGANISM: Human papillomavirus

US-10-530-061-603

Query Match 80.8%; Score 42; DB 9; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.9e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 VCDKCLK 8
DB 3 VCDKCLK 9

RESULT 12
US-10-530-253-3
; Sequence 3, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:

; APPLICANT: Casasetti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/1004137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 3
; LENGTH: 248
; TYPE: PRF
; ORGANISM: Human papillomavirus type 16

US-10-530-253-3

Query Match 76.9%; Score 40; DB 9; Length 248;
Best Local Similarity 88.9%; Pred. No. 7.3;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 AVCDKCLKF 9
|||
Db 61 AVGDCKCLKF 69

RESULT 13
US-10-530-253-5
; Sequence 5, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Cassecci, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 5
; LENGTH: 248
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-10-530-253-5

Query Match 76.9%; Score 40; DB 9; Length 248;
Best Local Similarity 88.9%; Pred. No. 7.3;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 AVCDKCLKF 9
|||
Db 61 AVGDCKCLKF 69

RESULT 14
US-10-530-253-9
; Sequence 9, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Cassecci, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 9
; LENGTH: 248
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-10-530-253-9

Query Match 76.9%; Score 40; DB 9; Length 248;
Best Local Similarity 88.9%; Pred. No. 7.3;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 AVCDKCLKF 9
|||
Db 158 AVGDCKCLKF 166

RESULT 15
US-10-530-253-11
; Sequence 11, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Cassecci, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 11
; LENGTH: 248
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-10-530-253-11

Query Match 76.9%; Score 40; DB 9; Length 248;
Best Local Similarity 88.9%; Pred. No. 7.3;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 AVCDKCLKF 9
|||
Db 158 AVGDCKCLKF 166

RESULT 16
US-10-530-253-18
; Sequence 18, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Cassecci, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 18
; LENGTH: 149
; TYPE: PRT
; ORGANISM: Human papillomavirus type 35
US-10-530-253-18

Query Match 75.0%; Score 39; DB 9; Length 149;
Best Local Similarity 87.5%; Pred. No. 7;
Matches 7; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2 VCDKCLKF 9
|||
Db 62 VCDKCLKF 69

RESULT 17
US-10-530-253-16
; Sequence 16, Application US/10530253
; Publication No. US20060014926A1

```
/ GENERAL INFORMATION:
/ APPLICANT: Cassetti, Maria C.
/ APPLICANT: Smith, Larry
/ APPLICANT: Jeffrey K. Pullen
/ APPLICANT: Susan P. McElhinney
/ TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
/ FILE REFERENCE: 00630/100M37-US2
/ CURRENT APPLICATION NUMBER: US/10/530,253
/ CURRENT FILING DATE: 2005-04-04
/ PRIOR APPLICATION NUMBER: PCT/US2003/031726
/ PRIOR FILING DATE: 2003-10-02
/ PRIOR APPLICATION NUMBER: US 60/415,929
/ PRIOR FILING DATE: 2002-10-03
/ NUMBER OF SEQ ID NOS: 65
/ SOFTWARE: PatentIn version 3.1
/ SEQ ID NO 16
/ LENGTH: 149
/ TYPE: PRT
/ ORGANISM: Human papillomavirus type 31
US-10-530-253-16

Query Match          73.1%; Score 38; DB 9; Length 149;
Best Local Similarity 75.0%; Pred. No. 10;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 2 VCDCKLKF 9
DB 62 VCTKCLRF 69

RESULT 18
US-11-096-568A-15475
/ Sequence 15475, Application US/11096568A
/ Publication No. US20060048240A1
/ GENERAL INFORMATION:
/ APPLICANT: Alexandrov, Nikolai et al.
/ TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
/ TITLE OF INVENTION: Thierby
/ FILE REFERENCE: 2750-1592PUS2
/ CURRENT APPLICATION NUMBER: US/11/096,568A
/ CURRENT FILING DATE: 2005-04-01
/ NUMBER OF SEQ ID NOS: 34471
/ SEQ ID NO 15475
/ LENGTH: 132
/ TYPE: PRT
/ ORGANISM: Zea mays subsp. mays
/ FEATURE:
/ NAME/KEY: misc.feature
/ LOCATION: (1)..(132)
/ OTHER INFORMATION: Ceres Seq. ID no. 12345170
US-11-096-568A-15475

Query Match          72.1%; Score 37.5; DB 11; Length 132;
Best Local Similarity 80.0%; Pred. No. 11;
Matches 8; Conservative 1; Mismatches 0; Indels 1; Gaps 1;

QY 1 AVCDKC-LKF 9
DB 2 AVCDCKLKF 11

RESULT 19
US-11-096-568A-15474
/ Sequence 15474, Application US/11096568A
/ Publication No. US20060048240A1
/ GENERAL INFORMATION:
/ APPLICANT: Alexandrov, Nikolai et al.
/ TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
/ TITLE OF INVENTION: Thierby
/ FILE REFERENCE: 2750-1592PUS2
/ CURRENT APPLICATION NUMBER: US/11/096,568A
/ CURRENT FILING DATE: 2005-04-01
/ NUMBER OF SEQ ID NOS: 34471
```

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/ SEQ ID NO 15474
/ LENGTH: 139
/ TYPE: PRT
/ ORGANISM: Zea mays subsp. mays
/ FEATURE:
/ NAME/KEY: misc.feature
/ LOCATION: (1)..(139)
/ OTHER INFORMATION: Ceres Seq. ID no. 12345169
US-11-096-568A-15474

Query Match          72.1%; Score 37.5; DB 11; Length 139;
Best Local Similarity 80.0%; Pred. No. 12;
Matches 8; Conservative 1; Mismatches 0; Indels 1; Gaps 1;

QY 1 AVCDKC-LKF 9
DB 9 AVCDCKLKF 18

RESULT 20
US-11-096-568A-15473
/ Sequence 15473, Application US/11096568A
/ Publication No. US20060048240A1
/ GENERAL INFORMATION:
/ APPLICANT: Alexandrov, Nikolai et al.
/ TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
/ TITLE OF INVENTION: Thierby
/ FILE REFERENCE: 2750-1592PUS2
/ CURRENT APPLICATION NUMBER: US/11/096,568A
/ CURRENT FILING DATE: 2005-04-01
/ NUMBER OF SEQ ID NOS: 34471
/ SEQ ID NO 15473
/ LENGTH: 182
/ TYPE: PRT
/ ORGANISM: Zea mays subsp. mays
/ FEATURE:
/ NAME/KEY: misc.feature
/ LOCATION: (1)..(182)
/ OTHER INFORMATION: Ceres Seq. ID no. 12345168
US-11-096-568A-15473

Query Match          72.1%; Score 37.5; DB 11; Length 182;
Best Local Similarity 80.0%; Pred. No. 15;
Matches 8; Conservative 1; Mismatches 0; Indels 1; Gaps 1;

QY 1 AVCDKC-LKF 9
DB 52 AVCDCKLKF 61

RESULT 21
US-10-530-061-801
/ Sequence 801, Application US/10530061
/ Publication No. US20060079453A1
/ GENERAL INFORMATION:
/ APPLICANT: SIDNEY, JOHN
/ APPLICANT: SOUTHWOOD, SCOTT
/ APPLICANT: SETTE, ALESSANDRO
/ TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
/ FILE REFERENCE: 2060.033US02/EKS/M-M
/ CURRENT APPLICATION NUMBER: US/10/530,061
/ CURRENT FILING DATE: 2005-04-04
/ PRIOR APPLICATION NUMBER: PCT/US03/31308
/ PRIOR FILING DATE: 2003-10-03
/ PRIOR APPLICATION NUMBER: 60/416,207
/ PRIOR FILING DATE: 2002-10-03
/ PRIOR APPLICATION NUMBER: 60/417,269
/ PRIOR FILING DATE: 2002-10-08
/ NUMBER OF SEQ ID NOS: 2503
/ SOFTWARE: PatentIn version 3.3
/ SEQ ID NO 801
/ LENGTH: 9
/ TYPE: PRT
```


ORGANISM: Human papillomavirus
US-10-530-061-801

Query Match 71.2%; Score 37; DB 9; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.9e+05;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AVCDKC 6
|||
DB 3 AVCDKC 8

RESULT 22
US-10-469-469-252
Sequence 252, Application US/10469469
Publication No. US20060079493A1
GENERAL INFORMATION:
APPLICANT: FRITZ, LAWRENCE C.
APPLICANT: BURROWS, FRANCIS J.
TITLE OF INVENTION: METHODS FOR TREATING GENETICALLY-DEFINED PROLIFERATIVE
TITLE OF INVENTION: DISORDERS WITH HSP90 INHIBITORS
FILE REFERENCE: CON-0010-USN
CURRENT APPLICATION NUMBER: US/10/469,469
CURRENT FILING DATE: 2003-08-27
PRIOR APPLICATION NUMBER: PCT/US02/06518
PRIOR FILING DATE: 2002-03-01
PRIOR APPLICATION NUMBER: 60/272,751
PRIOR FILING DATE: 2001-03-01
NUMBER OF SEQ ID NOS: 330
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 252
LENGTH: 2442
TYPE: PRT
ORGANISM: Homo sapiens
US-10-469-469-252

Query Match 71.2%; Score 37; DB 9; Length 2442;
Best Local Similarity 85.7%; Pred. No. 1.6e+02;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2 VCDCKLK 8
|||
DB 1307 VCDCKLK 1313

RESULT 23
US-11-154-293-4
Sequence 4, Application US/11154293
Publication No. US20060084085A1
GENERAL INFORMATION:
APPLICANT: PRESIDENT AND FELLOWS OF HARVARD COLLEGE
TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR MODULATING BAX-MEDIATED
TITLE OF INVENTION: APOPTOSIS
FILE REFERENCE: HMV-095.01
CURRENT APPLICATION NUMBER: US/11/154,293
CURRENT FILING DATE: 2005-06-16
PRIOR APPLICATION NUMBER: 60/580,169
PRIOR FILING DATE: 2004-06-16
NUMBER OF SEQ ID NOS: 58
SOFTWARE: PatentIn Ver. 3.3
SEQ ID NO 4
LENGTH: 2442
TYPE: PRT
ORGANISM: Homo sapiens
US-11-154-293-4

Query Match 71.2%; Score 37; DB 11; Length 2442;
Best Local Similarity 85.7%; Pred. No. 1.6e+02;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2 VCDCKLK 8
|||
DB 1307 VCDCKLK 1313

RESULT 24
US-11-264-096-2052
Sequence 2052, Application US/11264096
Publication No. US20060084794A1
GENERAL INFORMATION:
APPLICANT: Rosen et al.
TITLE OF INVENTION: Albumin Fusion Proteins
FILE REFERENCE: PF546D1
CURRENT APPLICATION NUMBER: US/11/264,096
CURRENT FILING DATE: 2005-11-02
PRIOR APPLICATION NUMBER: 09/833,245
PRIOR FILING DATE: 2001-04-12
PRIOR APPLICATION NUMBER: 60/229,358
PRIOR FILING DATE: 2000-04-12
PRIOR APPLICATION NUMBER: 60/256,931
PRIOR FILING DATE: 2000-12-21
PRIOR APPLICATION NUMBER: 60/199,384
NUMBER OF SEQ ID NOS: 2267
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 2052
LENGTH: 286
TYPE: PRT
ORGANISM: Homo sapiens
US-11-264-096-2052

Query Match 69.2%; Score 36; DB 11; Length 286;
Best Local Similarity 71.4%; Pred. No. 39;
Matches 5; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 1 AVCDKCL 7
|||
DB 144 SVCDKCI 150

RESULT 25
US-11-264-096-2051
Sequence 2051, Application US/11264096
Publication No. US20060084794A1
GENERAL INFORMATION:
APPLICANT: Rosen et al.
TITLE OF INVENTION: Albumin Fusion Proteins
FILE REFERENCE: PF546D1
CURRENT APPLICATION NUMBER: US/11/264,096
CURRENT FILING DATE: 2005-11-02
PRIOR APPLICATION NUMBER: 09/833,245
PRIOR FILING DATE: 2001-04-12
PRIOR APPLICATION NUMBER: 60/229,358
PRIOR FILING DATE: 2000-04-12
PRIOR APPLICATION NUMBER: 60/256,931
PRIOR FILING DATE: 2000-12-21
PRIOR APPLICATION NUMBER: 60/199,384
NUMBER OF SEQ ID NOS: 2267
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 2051
LENGTH: 298
TYPE: PRT
ORGANISM: Homo sapiens
US-11-264-096-2051

Query Match 69.2%; Score 36; DB 11; Length 298;
Best Local Similarity 71.4%; Pred. No. 40;
Matches 5; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 1 AVCDKCL 7
|||
DB 144 SVCDKCI 150

RESULT 26

```
US-10-530-253-19
; Sequence 19, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Cassetti, Maria C.
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; PRIOR FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 19
; LENGTH: 158
; TYPE: PRT
; ORGANISM: Human papillomavirus type 39
US-10-530-253-19

Query Match          67.3%; Score 35; DB 9; Length 158;
Best Local Similarity 55.6%; Pred. No. 35;
Matches 5; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY 1 AVCDKCLKF 9
DB 63 AACQSCIKF 71

RESULT 27
US-10-530-253-26
; Sequence 26, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Cassetti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 26
; LENGTH: 158
; TYPE: PRT
; ORGANISM: Human papillomavirus type 68
US-10-530-253-26

Query Match          67.3%; Score 35; DB 9; Length 158;
Best Local Similarity 55.6%; Pred. No. 35;
Matches 5; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY 1 AVCDKCLKF 9
DB 63 AACQSCIKF 71

RESULT 28
US-10-506-454-449
; Sequence 449, Application US/10506454
; Publication No. US20060068386A1
; GENERAL INFORMATION:
; APPLICANT: Stearey, Alex I

APPLICANT: Mezheva, Katja V
APPLICANT: Polushin, Nikolai N
APPLICANT: Shcherbina, Olga V
APPLICANT: Shakhova, Vera V
APPLICANT: Malykh, Andrei G
APPLICANT: Kozavkin, Sergei A
; TITLE OF INVENTION: The Complete Genome and Protein Sequences of the Hyperthermophile
; TITLE OF INVENTION: Methanopyrus Kandleri AV19 and Monophyly of Archaeal Methanogens
; TITLE OF INVENTION: and Methods of Use Thereof
; FILE REFERENCE: FID001
; CURRENT APPLICATION NUMBER: US/10/506,454
; CURRENT FILING DATE: 2004-08-31
; PRIOR APPLICATION NUMBER: PCT/US03/06664
; PRIOR FILING DATE: 2003-03-04
; PRIOR APPLICATION NUMBER: 60/361,742
; PRIOR FILING DATE: 2002-03-04
; NUMBER OF SEQ ID NOS: 1722
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 449
; LENGTH: 171
; TYPE: PRT
; ORGANISM: Methanopyrus kandleri
US-10-506-454-449

Query Match          67.3%; Score 35; DB 9; Length 171;
Best Local Similarity 62.5%; Pred. No. 37;
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 2 VCDKCLKF 9
DB 30 VCEBCKAF 37

RESULT 29
US-10-512-544-1
; Sequence 1, Application US/10512544
; Publication No. US20060051757A1
; GENERAL INFORMATION:
; APPLICANT: Evotec Neurosciences GmbH
; TITLE OF INVENTION: Diagnostic and therapeutic use of Ensnadin-0477 gene and
; FILE REFERENCE: 042378us ME/PM
; CURRENT APPLICATION NUMBER: US/10/512,544
; CURRENT FILING DATE: 2004-10-25
; PRIOR APPLICATION NUMBER: US 60/374,816
; PRIOR FILING DATE: 2002-04-24
; PRIOR APPLICATION NUMBER: EP 02009139.3
; PRIOR FILING DATE: 2002-04-24
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
; LENGTH: 937
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-512-544-1

Query Match          67.3%; Score 35; DB 9; Length 937;
Best Local Similarity 71.4%; Pred. No. 1.6e+02;
Matches 5; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 3 CDKCLKF 9
DB 429 CDECLKW 435

RESULT 30
US-11-154-293-8
; Sequence 8, Application US/11154293
; Publication No. US20060084085A1
; GENERAL INFORMATION:
; APPLICANT: PRESIDENT AND FELLOWS OF HARVARD COLLEGE
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR MODULATING BAX-MEDIATED
; TITLE OF INVENTION: APOPTOSIS
```

FILE REFERENCE: HMV-095-01
CURRENT APPLICATION NUMBER: US/11/154,293
CURRENT FILING DATE: 2005-06-16
PRIOR APPLICATION NUMBER: 60/580,169
PRIOR FILING DATE: 2004-06-16
NUMBER OF SEQ ID NOS: 58
SOFTWARE: Patent Ver. 3.3
SEQ ID NO 8
LENGTH: 2414
TYPE: PRT
ORGANISM: Homo sapiens
US-11-154-293-8

Query Match 67.3%; Score 35; DB 11; Length 2414;
Best Local Similarity 85.7%; Pred. No. 3.5e+02;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2 VCDKCLK 8
DB 1271 VCDGCLK 1277

RESULT 31
US-11-096-568A-1034
Sequence 1034, Application US/11096568A
Publication No. US20060048240A1
GENERAL INFORMATION:
APPLICANT: Alexandrov, Nikolai et al.
TITLE OF INVENTION: Sequence-determined DNA Fragments and Corresponding Polypeptides
FILE REFERENCE: 2750-1592PUS2
CURRENT APPLICATION NUMBER: US/11/096,568A
CURRENT FILING DATE: 2005-04-01
NUMBER OF SEQ ID NOS: 34471
SEQ ID NO 1034
LENGTH: 67
TYPE: PRT
ORGANISM: Zea mays subsp. mays
FEATURE:
NAME/KEY: misc feature
LOCATION: (1)..(67)
OTHER INFORMATION: Ceres Seq. ID no. 15218620
US-11-096-568A-1034

Query Match 65.4%; Score 34; DB 11; Length 67;
Best Local Similarity 83.3%; Pred. No. 25;
Matches 5; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 3 CDKCLK 8
DB 37 CDGCLK 42

RESULT 32
US-11-096-568A-1033
Sequence 1033, Application US/11096568A
Publication No. US20060048240A1
GENERAL INFORMATION:
APPLICANT: Alexandrov, Nikolai et al.
TITLE OF INVENTION: Sequence-determined DNA Fragments and Corresponding Polypeptides
FILE REFERENCE: 2750-1592PUS2
CURRENT APPLICATION NUMBER: US/11/096,568A
CURRENT FILING DATE: 2005-04-01
NUMBER OF SEQ ID NOS: 34471
SEQ ID NO 1033
LENGTH: 87
TYPE: PRT
ORGANISM: Zea mays subsp. mays
FEATURE:
NAME/KEY: misc feature
LOCATION: (1)..(87)
OTHER INFORMATION: Ceres Seq. ID no. 15218619

US-11-096-568A-1033

Query Match 65.4%; Score 34; DB 11; Length 87;
Best Local Similarity 83.3%; Pred. No. 31;
Matches 5; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 3 CDKCLK 8
DB 57 CDGCLK 62

RESULT 33
US-10-530-253-21
Sequence 21, Application US/10530253
Publication No. US20060014926A1
GENERAL INFORMATION:
APPLICANT: Casseati, Maria C.
APPLICANT: Smith, Larry
APPLICANT: Jeffrey K. Pullen
APPLICANT: Susan P. McElhinney
TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
FILE REFERENCE: 00630/100M137-US2
CURRENT APPLICATION NUMBER: US/10/530,253
CURRENT FILING DATE: 2005-04-04
PRIOR APPLICATION NUMBER: PCT/US2003/031726
PRIOR FILING DATE: 2003-10-02
PRIOR APPLICATION NUMBER: US 60/415,929
PRIOR FILING DATE: 2002-10-03
NUMBER OF SEQ ID NOS: 65
SOFTWARE: Patent version 3.1
SEQ ID NO 21
LENGTH: 151
TYPE: PRT
ORGANISM: Human papillomavirus type 51
US-10-530-253-21

Query Match 65.4%; Score 34; DB 9; Length 151;
Best Local Similarity 66.7%; Pred. No. 49;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 AVCDKCLKF 9
DB 61 AVCKQCLLF 69

RESULT 34
US-11-096-568A-615
Sequence 615, Application US/11096568A
Publication No. US20060048240A1
GENERAL INFORMATION:
APPLICANT: Alexandrov, Nikolai et al.
TITLE OF INVENTION: Sequence-determined DNA Fragments and Corresponding Polypeptides
FILE REFERENCE: 2750-1592PUS2
CURRENT APPLICATION NUMBER: US/11/096,568A
CURRENT FILING DATE: 2005-04-01
NUMBER OF SEQ ID NOS: 34471
SEQ ID NO 615
LENGTH: 217
TYPE: PRT
ORGANISM: Zea mays subsp. mays
FEATURE:
NAME/KEY: misc feature
LOCATION: (1)..(217)
OTHER INFORMATION: Ceres Seq. ID no. 12635573
US-11-096-568A-615

Query Match 65.4%; Score 34; DB 11; Length 217;
Best Local Similarity 75.0%; Pred. No. 67;
Matches 6; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 AVCDKCLK 8

Db 66 AKCCKLW 73

```
RESULT 35
US-11-072-175-185
; Sequence 185, Application US/11072175
; Publication No. US20060029944A1
; GENERAL INFORMATION:
; APPLICANT: Bristol-Myers Squibb Company
; TITLE OF INVENTION: IDENTIFICATION OF GENES FOR PREDICTING ACTIVITY OF COMPOUNDS THAT
; TITLE OF INVENTION: INTERACT WITH AND/OR MODULATE PROTEIN TYROSINE KINASES AND/OR
; TITLE OF INVENTION: PROTEIN TYROSINE KINASE PATHWAYS IN BREAST CELLS
; FILE REFERENCE: D0273A CIP
; CURRENT APPLICATION NUMBER: US/11/072,175
; CURRENT FILING DATE: 2005-03-05
; PRIOR APPLICATION NUMBER: US 60/406,385
; PRIOR FILING DATE: 2002-08-27
; PRIOR APPLICATION NUMBER: US 10/648,593
; PRIOR FILING DATE: 2003-08-26
; NUMBER OF SEQ ID NOS: 571
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 185
; LENGTH: 1609
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-072-175-185
```

Query Match

Best Local Similarity 65.4%; Score 34; DB 11; Length 1609;
Matches 5; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 3 CDKCLPF 9
Db 316 CEKCLPF 322

```
RESULT 36
US-10-530-061-473
; Sequence 473, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.03US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 473
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-473
```

Query Match

Best Local Similarity 63.5%; Score 33; DB 9; Length 10;
Matches 5; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

Qy 1 AVCDKCLPF 9
Db 1 AACCHKIDF 9

RESULT 37
US-10-530-061-567

```
; Sequence 567, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.03US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 567
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-567
```

Query Match

Best Local Similarity 63.5%; Score 33; DB 9; Length 10;
Matches 5; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

Qy 1 AVCDKCLPF 9
Db 1 ATCHKIDF 9

```
RESULT 38
US-10-530-061-568
; Sequence 568, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.03US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 568
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-568
```

Query Match

Best Local Similarity 63.5%; Score 33; DB 9; Length 10;
Matches 5; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

Qy 1 AVCDKCLPF 9
Db 1 AACCHKIDF 9

RESULT 39
US-10-530-061-785
; Sequence 785, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:

```
APPLICANT: SIDNEY, JOHN
APPLICANT: SOUTHWOOD, SCOTT
APPLICANT: SETTE, ALESSANDRO
TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
FILE REFERENCE: 2060.033US02/EKS/M-M
CURRENT APPLICATION NUMBER: US/10/530.061
CURRENT FILING DATE: 2005-04-04
PRIOR APPLICATION NUMBER: PCT/US03/31308
PRIOR FILING DATE: 2003-10-03
PRIOR APPLICATION NUMBER: 60/416,207
PRIOR FILING DATE: 2002-10-03
PRIOR APPLICATION NUMBER: 60/417,269
PRIOR FILING DATE: 2002-10-08
NUMBER OF SEQ ID NOS: 2503
SOFTWARE: PatentIn version 3.3
SEQ ID NO 785
LENGTH: 11
TYPE: PRT
ORGANISM: Human papillomavirus
US-10-530-061-785
```

```
Query Match          63.5%; Score 33; DB 9; Length 11;
Best Local Similarity 55.6%; Pred. No. 7.9;
Matches 5; Conservative 1; Mismatches 3; Indels 0; Gaps 0;
```

```
Qy 1 AVCDKCLKP 9
Db 3 AACCHKCIDF 11
```

```
RESULT 40
US-10-530-253-15
Sequence 15, Application US/10530253
Publication No. US20060014926A1
GENERAL INFORMATION:
APPLICANT: Casasetti, Maria C.
APPLICANT: Smith, Larry
APPLICANT: Jeffrey K. Pullen
APPLICANT: Susan P. McElhinney
TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
FILE REFERENCE: 00630/100M137-US2
CURRENT APPLICATION NUMBER: US/10/530.253
CURRENT FILING DATE: 2005-04-04
PRIOR APPLICATION NUMBER: PCT/US2003/031726
PRIOR FILING DATE: 2003-10-02
PRIOR APPLICATION NUMBER: US 60/415,929
PRIOR FILING DATE: 2002-10-03
NUMBER OF SEQ ID NOS: 65
SOFTWARE: PatentIn version 3.1
SEQ ID NO 15
LENGTH: 156
TYPE: PRT
ORGANISM: Human papillomavirus type 18
US-10-530-253-15
```

```
Query Match          63.5%; Score 33; DB 9; Length 156;
Best Local Similarity 55.6%; Pred. No. 7.5;
Matches 5; Conservative 1; Mismatches 3; Indels 0; Gaps 0;
```

```
Qy 1 AVCDKCLKP 9
Db 63 AACCHKCIDF 71
```

```
RESULT 41
US-10-530-253-20
Sequence 20, Application US/10530253
Publication No. US20060014926A1
GENERAL INFORMATION:
APPLICANT: Casasetti, Maria C.
APPLICANT: Smith, Larry
APPLICANT: Jeffrey K. Pullen
APPLICANT: Susan P. McElhinney
```

```
TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
FILE REFERENCE: 00630/100M137-US2
CURRENT APPLICATION NUMBER: US/10/530.253
CURRENT FILING DATE: 2005-04-04
PRIOR APPLICATION NUMBER: PCT/US2003/031726
PRIOR FILING DATE: 2003-10-02
PRIOR APPLICATION NUMBER: US 60/415,929
PRIOR FILING DATE: 2002-10-03
NUMBER OF SEQ ID NOS: 65
SOFTWARE: PatentIn version 3.1
SEQ ID NO 20
LENGTH: 158
TYPE: PRT
ORGANISM: Human papillomavirus type 45
US-10-530-253-20
```

```
Query Match          63.5%; Score 33; DB 9; Length 158;
Best Local Similarity 55.6%; Pred. No. 7.5;
Matches 5; Conservative 1; Mismatches 3; Indels 0; Gaps 0;
```

```
Qy 1 AVCDKCLKP 9
Db 63 AACCHKCIDF 71
```

```
RESULT 42
US-11-188-298-3155
Sequence 3155, Application US/11188298
Publication No. US2006007522A1
GENERAL INFORMATION:
APPLICANT: Abad, Mark S. et al.
TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
FILE REFERENCE: 38-21(53452)B
CURRENT APPLICATION NUMBER: US/11/188,298
CURRENT FILING DATE: 2005-07-22
PRIOR APPLICATION NUMBER: 60/592,978
PRIOR FILING DATE: 2004-07-31
NUMBER OF SEQ ID NOS: 22569
SEQ ID NO 3155
LENGTH: 257
TYPE: PRT
ORGANISM: Triticum aestivum
US-11-188-298-3155
```

```
Query Match          63.5%; Score 33; DB 11; Length 257;
Best Local Similarity 83.3%; Pred. No. 1.1e+02;
Matches 5; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
Qy 3 CDKCLX 8
Db 208 CDKCAK 213
```

```
RESULT 43
US-11-072-512-3274
Sequence 3274, Application US/11072512
Publication No. US20060029945A1
GENERAL INFORMATION:
APPLICANT: ISOGAI, TAKAO
APPLICANT: SUGIYAMA, TOMOYASU
APPLICANT: OTSUKI, TETSUJI
APPLICANT: WAKAMATSU, AI
APPLICANT: SATO, HIROYUKI
APPLICANT: ISHII, SHIZUKO
APPLICANT: YAMAMOTO, JUN-ICHI
APPLICANT: ISONO, YUUKO
APPLICANT: HIO, YURI
APPLICANT: OTSUKA, KAORU
APPLICANT: NAGAI, KEIICHI
APPLICANT: IRIE, RYOTARO
APPLICANT: TAMECHIKA, ICHIRO
APPLICANT: SEKI, NAOHICO
APPLICANT: YOSHIKAWA, TSUTOMU
```

```

; APPLICANT: OTSUKA, MOTOTYUKI
; APPLICANT: NAGAHARI, KENJI
; APPLICANT: MASUHO, YASUHIRO
; TITLE OF INVENTION: Novel full length cDNA
; FILE REFERENCE: 084335-0191
; CURRENT APPLICATION NUMBER: US/11/072,512
; CURRENT FILING DATE: 2005-03-07
; PRIOR APPLICATION NUMBER: US 60/350,978
; PRIOR FILING DATE: 2002-01-25
; PRIOR APPLICATION NUMBER: JP 2001-379298
; PRIOR FILING DATE: 2001-11-05
; NUMBER OF SEQ ID NOS: 4096
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 3274
; LENGTH: 270
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-072-512-3274
```

```
Query Match      63.5%; Score 33; DB 11; Length 270;
Best Local Similarity 100.0%; Pred. No. 1.2e+02;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      2 VCDKLC 6
      |||||
Db      102 VCDKLC 106
```

```
RESULT 44
US-11-188-298-1735
```

```

; Sequence 1735, Application US/11188298
; Publication No. US20060075522A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
; FILE REFERENCE: 38-21(53452)B
; CURRENT APPLICATION NUMBER: US/11/188,298
; CURRENT FILING DATE: 2005-07-22
; PRIOR APPLICATION NUMBER: 60/592,978
; PRIOR FILING DATE: 2004-07-31
; NUMBER OF SEQ ID NOS: 22569
; SEQ ID NO 1735
; LENGTH: 276
; TYPE: PRT
; ORGANISM: Trifolium aestivum
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1) - (276)
; OTHER INFORMATION: unsure at all Xaa locations
US-11-188-298-1735
```

```
Query Match      63.5%; Score 33; DB 11; Length 276;
Best Local Similarity 83.3%; Pred. No. 1.2e+02;
Matches 5; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
QY      3 CDKCLK 8
      |||||
Db      159 CDKCLK 164
```

```
RESULT 45
```

```

US-11-079-463-9502
; Sequence 9502, Application US/11079463
; Publication No. US20060073161A1
; GENERAL INFORMATION:
; APPLICANT: Gary L. Breton
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO BACTERIOIDES FR
; FILE REFERENCE: PATH00-03DIV2
; CURRENT APPLICATION NUMBER: US/11/079,463
; CURRENT FILING DATE: 2005-03-14
; PRIOR APPLICATION NUMBER: US 60/128,705
; PRIOR FILING DATE: 1999-04-09
```

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; PRIOR APPLICATION NUMBER: US 09/540,209
; PRIOR FILING DATE: 2000-04-04
; NUMBER OF SEQ ID NOS: 10444
; SEQ ID NO 9502
; LENGTH: 370
; TYPE: PRT
; ORGANISM: B. fragilis
US-11-079-463-9502
```

```
Query Match      63.5%; Score 33; DB 11; Length 370;
Best Local Similarity 62.5%; Pred. No. 1.5e+02;
Matches 5; Conservative 1; Mismatches 2; Indels 0; Gaps 0;
```

```
QY      2 VCDKCLK 9
      |||||
Db      64 VCDKCLK 71
```

```
RESULT 46
```

```

US-11-087-099-3876
; Sequence 3876, Application US/11087099
; Publication No. US20060041961A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: Genes and Uses for Plant Improvement
; FILE REFERENCE: 38-21(53450)B EP
; CURRENT APPLICATION NUMBER: US/11/087,099
; CURRENT FILING DATE: 2005-03-22
; NUMBER OF SEQ ID NOS: 12464
; SEQ ID NO 3876
; LENGTH: 373
; TYPE: PRT
; ORGANISM: Lactobacillus plantarum WCF81
US-11-087-099-3876
```

```
Query Match      63.5%; Score 33; DB 11; Length 373;
Best Local Similarity 83.3%; Pred. No. 1.6e+02;
Matches 5; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
QY      3 CDKCLK 8
      |||||
Db      94 CDKCLK 99
```

```
RESULT 47
```

```

US-11-087-099-10001
; Sequence 10001, Application US/11087099
; Publication No. US20060041961A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: Genes and Uses for Plant Improvement
; FILE REFERENCE: 38-21(53450)B EP
; CURRENT APPLICATION NUMBER: US/11/087,099
; CURRENT FILING DATE: 2005-03-22
; NUMBER OF SEQ ID NOS: 12464
; SEQ ID NO 10001
; LENGTH: 390
; TYPE: PRT
; ORGANISM: Burkholderia fungorum
US-11-087-099-10001
```

```
Query Match      63.5%; Score 33; DB 11; Length 390;
Best Local Similarity 71.4%; Pred. No. 1.6e+02;
Matches 5; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
```

```
QY      2 VCDKCLK 8
      |||||
Db      16 VCDKCLK 22
```

```
RESULT 48
```

```

US-10-330-773-53
; Sequence 53, Application US/10330773
```

Publication No. US20060040262A1
GENERAL INFORMATION:
APPLICANT: David W. Morris
APPLICANT: Marc Malandro
TITLE OF INVENTION: Novel Compositions and Methods in Cancer
FILE REFERENCE: 529452001300
CURRENT APPLICATION NUMBER: US/10/330,773
CURRENT FILING DATE: 2002-12-27
NUMBER OF SEQ ID NOS: 981
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 53
LENGTH: 476
TYPE: PRT
ORGANISM: Mus musculus
US-10-330-773-53

Query Match 63.5%; Score 33; DB 9; Length 476;
Best Local Similarity 55.6%; Pred. No. 1.9e+02;
Matches 5; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 1 AAVCDKCLKF 9
| | | | |
Db 140 SVCDCPCSR 148

RESULT 49
US-10-763-712A-71
Sequence 71, Application US/10763712A
Publication No. US20050266541A1
GENERAL INFORMATION:
APPLICANT: Solazyme, Inc.
APPLICANT: Dillon, Harrison F.
TITLE OF INVENTION: Methods and Compositions for Evolving Microbial Hydrogen
FILE REFERENCE: H2042101-CIP
CURRENT APPLICATION NUMBER: US/10/763,712A
CURRENT FILING DATE: 2004-01-21
PRIOR APPLICATION NUMBER: US 10/287,750
PRIOR FILING DATE: 2002-11-04
PRIOR APPLICATION NUMBER: US 10/411,910
PRIOR FILING DATE: 2003-04-12
PRIOR APPLICATION NUMBER: US 60/500,032
PRIOR FILING DATE: 2003-09-03
NUMBER OF SEQ ID NOS: 184
SOFTWARE: PatentIn version 3.2
SEQ ID NO 71
LENGTH: 494
TYPE: PRT
ORGANISM: Clostridium tetani
US-10-763-712A-71

Query Match 63.5%; Score 33; DB 9; Length 494;
Best Local Similarity 83.3%; Pred. No. 2e+02;
Matches 5; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 AAVCDKC 6
| | | | |
Db 94 AACDKC 99

RESULT 50
US-10-763-712A-111
Sequence 111, Application US/10763712A
Publication No. US20050266541A1
GENERAL INFORMATION:
APPLICANT: Solazyme, Inc.
APPLICANT: Dillon, Harrison F.
TITLE OF INVENTION: Methods and Compositions for Evolving Microbial Hydrogen
FILE REFERENCE: H2042101-CIP
CURRENT APPLICATION NUMBER: US/10/763,712A
CURRENT FILING DATE: 2004-01-21
PRIOR APPLICATION NUMBER: US 10/287,750

PRIOR FILING DATE: 2002-11-04
PRIOR APPLICATION NUMBER: US 10/411,910
PRIOR FILING DATE: 2003-04-12
PRIOR APPLICATION NUMBER: US 60/500,032
PRIOR FILING DATE: 2003-09-03
NUMBER OF SEQ ID NOS: 184
SOFTWARE: PatentIn version 3.2
SEQ ID NO 111
LENGTH: 494
TYPE: PRT
ORGANISM: C. tetani
US-10-763-712A-111

Query Match 63.5%; Score 33; DB 9; Length 494;
Best Local Similarity 83.3%; Pred. No. 2e+02;
Matches 5; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 AAVCDKC 6
| | | | |
Db 94 AACDKC 99

Search completed: May 5, 2006, 08:51:33
Job time : 9.4 secs

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OM protein - protein search, using SW model

Run on: May 5, 2006, 02:25:57 ; Search time 20.7 Seconds
(without alignments)
35.946 Million cell updates/sec

Title: US-08-170-344-47
Perfect score: 55
Sequence: 1 VCDCKLXKY 9

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 572060 seqs, 82675679 residues

Total number of hits satisfying chosen parameters: 572060

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 1000 summaries

Database : Issued Patents, AA:*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	55	100.0	9	2	US-08-159-339A-74
2	55	100.0	10	2	US-08-159-339A-561
3	55	100.0	22	2	US-10-612-818-4
4	55	100.0	151	2	US-09-701-080C-18
5	55	100.0	158	2	US-09-980-523A-2
6	55	100.0	162	1	US-08-316-239B-3
7	55	100.0	162	1	US-08-316-239B-4
8	55	100.0	172	2	US-08-860-165-12
9	55	100.0	172	2	US-08-860-165-14
10	55	100.0	172	2	US-09-359-382-12
11	55	100.0	172	2	US-09-359-382-14
12	55	100.0	243	2	US-09-462-993-1
13	55	100.0	266	2	US-08-860-165-10
14	55	100.0	266	2	US-09-359-382-10
15	55	100.0	266	2	US-09-367-309A-1
16	55	100.0	273	2	US-09-485-885-4
17	55	100.0	292	2	US-09-485-885-10
18	55	100.0	371	2	US-09-485-885-6
19	55	100.0	380	2	US-09-485-885-14
20	50	90.3	20	1	US-08-934-915-162
21	48	87.9	11	2	US-08-159-339A-1170
22	42	76.4	8	2	US-08-159-339A-1169
23	42	76.4	74	2	US-09-543-681A-8341
24	38	69.1	161	2	US-09-389-956-64
25	38	69.1	796	2	US-09-389-956-2
26	38	69.1	801	2	US-09-949-016-6836
27	38	69.1	819	2	US-09-949-016-11155

28	38	69.1	2710	1	US-08-568-459A-12	Sequence 12, Appl
29	38	69.1	2710	1	US-08-487-826B-12	Sequence 12, Appl
30	38	69.1	2710	2	US-09-210-288-12	Sequence 12, Appl
31	38	69.1	2710	2	US-10-153-273-12	Sequence 12, Appl
32	38	69.1	3060	2	US-08-487-826B-14	Sequence 14, Appl
33	37	67.3	9	2	US-08-159-339A-136	Sequence 136, App
34	37	67.3	219	1	US-08-152-019A-31	Sequence 31, Appl
35	37	67.3	219	1	US-08-152-019A-32	Sequence 32, Appl
36	37	67.3	219	1	US-08-460-309-18	Sequence 18, Appl
37	37	67.3	219	1	US-08-125-077-18	Sequence 18, Appl
38	37	67.3	1572	2	US-09-562-702A-32	Sequence 32, Appl
39	37	67.3	1572	2	US-09-561-818A-28	Sequence 28, Appl
40	37	67.3	1572	2	US-10-037-182-20	Sequence 20, Appl
41	37	67.3	1576	2	US-09-562-702A-24	Sequence 24, Appl
42	37	67.3	1576	2	US-09-561-818A-24	Sequence 16, Appl
43	37	67.3	1576	2	US-10-037-182-18	Sequence 16, Appl
44	37	67.3	1584	2	US-09-562-702A-28	Sequence 28, Appl
45	37	67.3	1605	2	US-09-562-702A-30	Sequence 30, Appl
46	37	67.3	1605	2	US-10-037-182-14	Sequence 26, Appl
47	37	67.3	1605	2	US-09-561-818A-26	Sequence 18, Appl
48	37	67.3	1609	2	US-09-562-702A-22	Sequence 22, Appl
49	37	67.3	1609	2	US-09-561-818A-22	Sequence 22, Appl
50	37	67.3	1609	2	US-09-538-092-900	Sequence 900, App
51	37	67.3	1609	2	US-10-037-182-14	Sequence 14, Appl
52	37	67.3	1617	2	US-09-562-702A-26	Sequence 26, Appl
53	37	67.3	2441	1	US-08-194-468-2	Sequence 2, Appl
54	37	67.3	2441	2	US-08-961-739-2	Sequence 2, Appl
55	37	67.3	2441	2	US-09-514-247A-8	Sequence 8, Appl
56	37	67.3	2441	2	US-09-686-316-2	Sequence 10, Appl
57	37	67.3	2442	2	US-09-514-247A-10	Sequence 10, Appl
58	37	67.3	2442	2	US-09-538-092-1370	Sequence 1370, Ap
59	36	65.5	32	1	US-08-466-288-4	Sequence 4, Appl
60	36	65.5	32	1	US-08-164-786-4	Sequence 4, Appl
61	36	65.5	74	2	US-09-134-000C-4206	Sequence 4206, Ap
62	36	65.5	142	2	US-09-270-767-32496	Sequence 32496, A
63	36	65.5	158	1	US-09-270-767-47713	Sequence 47713, A
64	36	65.5	158	1	US-08-247-904B-10	Sequence 10, Appl
65	36	65.5	158	2	US-08-767-942A-19	Sequence 19, Appl
66	36	65.5	225	1	US-08-152-018A-33	Sequence 33, Appl
67	36	65.5	262	2	US-09-134-000C-6521	Sequence 6521, Ap
68	36	65.5	271	1	US-08-117-083-14	Sequence 14, Appl
69	36	65.5	278	2	US-09-485-885-21	Sequence 21, Appl
70	36	65.5	383	2	US-09-485-885-23	Sequence 23, Appl
71	36	65.5	606	2	US-08-207-954-5	Sequence 5, Appl
72	36	65.5	991	2	US-09-949-016-7768	Sequence 7768, Ap
73	36	65.5	1551	2	US-09-949-016-6785	Sequence 6785, Ap
74	35	63.6	26	1	US-08-620-151-22	Sequence 22, Appl
75	35	63.6	35	2	US-09-324-455-15	Sequence 15, Appl
76	35	63.6	69	2	US-09-732-210-151	Sequence 151, App
77	35	63.6	165	2	US-09-706-722A-3	Sequence 2, Appl
78	35	63.6	184	1	US-08-464-339A-2	Sequence 18, Appl
79	35	63.6	184	1	US-08-464-847B-18	Sequence 2, Appl
80	35	63.6	184	2	US-09-706-722A-2	Sequence 6782, Ap
81	35	63.6	184	2	US-09-949-016-6762	Sequence 2, Appl
82	35	63.6	184	4	PCR-US94-14388-2	Sequence 10546, A
83	35	63.6	202	4	US-09-949-016-10546	Sequence 19019, A
84	35	63.6	295	2	US-09-248-796A-19019	Sequence 23, Appl
85	35	63.6	308	1	US-08-872-855-10	Sequence 10, Appl
86	35	63.6	642	2	US-08-872-855-10	Sequence 1131, Ap
87	35	63.6	2375	2	US-09-538-092-1131	Sequence 1131, Ap
88	35	63.6	2414	2	US-08-327-536-2	Sequence 1289, Ap
89	35	63.6	2414	2	US-09-538-092-1289	Sequence 2, Appl
90	35	63.6	2414	4	PCR-US95-04682-2	Sequence 7, Appl
91	35	63.6	2414	4	US-09-824-574-7	Sequence 7, Appl
92	35	63.6	3635	2	US-09-845-583A-2	Sequence 2, Appl
93	35	63.6	3635	2	US-10-037-182-47	Sequence 47, Appl
94	35	63.6	3635	2	US-10-037-182-4	Sequence 4, Appl
95	34.5	62.7	223	2	US-09-949-016-7517	Sequence 7517, Ap
96	34.5	62.7	3070	2	US-09-861-403-7	Sequence 7, Appl
97	34.5	62.7	3088	2	US-09-562-702A-8	Sequence 8, Appl
98	34.5	62.7	3089	2	US-09-562-702A-4	Sequence 4, Appl
99	34.5	62.7	3110	2	US-09-562-702A-2	Sequence 2, Appl
100	34.5	62.7	3110	2	US-09-562-702A-6	Sequence 6, Appl

101	34.5	62.7	3110	2	US-09-561-709B-7	Sequence 7, Appli	174	33	60.0	437	2	US-09-270-767-45974	Sequence 45974, A
102	34.5	62.7	3110	2	US-09-917-254-86	Sequence 86, Appli	175	33	60.0	505	2	US-09-270-767-43800	Sequence 43800, A
103	34.5	62.7	3110	2	US-09-949-016-5937	Sequence 5937, Ap	176	33	60.0	524	2	US-09-408-020-10	Sequence 10, Appli
104	34.5	62.7	3111	1	US-08-460-309-4	Sequence 4, Appli	177	33	60.0	562	1	US-08-973-625-2	Sequence 2, Appli
105	34.5	62.7	3111	1	US-08-125-077-4	Sequence 4, Appli	178	33	60.0	599	2	US-09-248-796A-19578	Sequence 1578, A
106	61.8	61.8	710	2	US-09-134-001C-4540	Sequence 4540, Ap	179	33	60.0	622	2	US-09-538-092-689	Sequence 689, App
107	61.8	61.8	96	2	US-09-270-767-40457	Sequence 40457, A	180	33	60.0	733	2	US-09-248-796A-19530	Sequence 19530, A
108	61.8	61.8	96	2	US-09-270-767-55673	Sequence 55673, A	181	33	60.0	829	2	US-09-248-796A-19017	Sequence 19017, A
109	61.8	61.8	97	2	US-09-732-210-830	Sequence 890, App	182	33	60.0	840	2	US-09-949-016-6569	Sequence 6569, Ap
110	61.8	61.8	97	2	US-09-732-210-892	Sequence 892, App	183	33	60.0	856	2	US-09-902-540-11879	Sequence 11879, A
111	61.8	61.8	117	2	US-09-540-236-3305	Sequence 3305, Ap	184	33	60.0	916	2	US-09-949-016-8291	Sequence 8291, Ap
112	61.8	61.8	119	2	US-09-621-976-6640	Sequence 6640, Ap	185	33	60.0	916	2	US-09-949-016-8292	Sequence 8292, Ap
113	61.8	61.8	134	2	US-09-513-998C-6194	Sequence 6194, Ap	186	33	60.0	1046	2	US-09-540-236-7376	Sequence 2376, Ap
114	61.8	61.8	164	2	US-09-621-976-5191	Sequence 5191, Ap	187	33	60.0	1052	2	US-09-949-016-11508	Sequence 11508, A
115	61.8	61.8	177	2	US-09-270-767-32541	Sequence 32541, A	188	33	60.0	1101	2	US-09-561-709B-5	Sequence 5, Appli
116	61.8	61.8	177	2	US-09-270-767-47758	Sequence 47758, A	189	33	60.0	1147	1	US-08-144-121-3	Sequence 3, Appli
117	61.8	61.8	204	1	US-08-808-550-32	Sequence 32, Appli	190	33	60.0	1147	2	US-08-735-993-3	Sequence 3, Appli
118	61.8	61.8	332	2	US-09-437-568A-53	Sequence 23, Appli	191	33	60.0	1147	2	US-10-841-139-3	Sequence 3, Appli
119	61.8	61.8	395	2	US-09-033-372-1	Sequence 1, Appli	192	33	60.0	1153	2	US-09-560-385A-16	Sequence 16, Appli
120	61.8	61.8	488	2	US-09-248-796A-15599	Sequence 15599, A	193	33	60.0	1155	2	US-09-560-385A-24	Sequence 24, Appli
121	61.8	61.8	488	2	US-09-949-016-7227	Sequence 7227, Ap	194	33	60.0	1165	1	US-08-144-121-2	Sequence 2, Appli
122	61.8	61.8	564	2	US-09-437-568A-2	Sequence 2, Appli	195	33	60.0	1165	1	US-08-735-993-2	Sequence 2, Appli
123	61.8	61.8	564	2	US-09-999-248A-14	Sequence 14, Appli	196	33	60.0	1165	2	US-10-841-139-2	Sequence 2, Appli
124	61.8	61.8	1106	2	US-09-949-016-9626	Sequence 9626, Ap	197	33	60.0	1167	2	US-09-560-385A-20	Sequence 20, Appli
125	61.8	61.8	1196	1	US-08-144-121-4	Sequence 4, Appli	198	33	60.0	1170	2	US-09-561-709B-12	Sequence 12, Appli
126	61.8	61.8	1196	1	US-08-735-893-4	Sequence 4, Appli	199	33	60.0	1170	2	US-09-560-385A-14	Sequence 14, Appli
127	61.8	61.8	1196	2	US-10-841-139-4	Sequence 4, Appli	200	33	60.0	1172	2	US-09-919-172-16	Sequence 16, Appli
128	61.8	61.8	1587	2	US-09-845-583A-10	Sequence 10, Appli	201	33	60.0	1174	2	US-09-360-385A-22	Sequence 22, Appli
129	61.8	61.8	1587	2	US-09-561-709B-3	Sequence 3, Appli	202	33	60.0	1186	2	US-09-560-385A-18	Sequence 18, Appli
130	61.8	61.8	1725	2	US-09-562-702A-20	Sequence 20, Appli	203	33	60.0	1342	2	US-09-561-709B-13	Sequence 13, Appli
131	61.8	61.8	1725	2	US-09-561-818A-20	Sequence 20, Appli	204	33	60.0	1642	1	US-08-447-411-45	Sequence 45, Appli
132	61.8	61.8	1725	2	US-10-037-182-12	Sequence 12, Appli	205	33	60.0	1642	1	US-08-662-327-2	Sequence 2, Appli
133	61.8	61.8	1765	2	US-09-562-702A-16	Sequence 16, Appli	206	33	60.0	1642	2	US-09-017-947-2	Sequence 2, Appli
134	61.8	61.8	1765	2	US-09-561-818A-16	Sequence 16, Appli	207	33	60.0	1642	2	US-09-925-442-5	Sequence 5, Appli
135	61.8	61.8	1765	2	US-10-037-182-8	Sequence 8, Appli	208	33	60.0	1648	1	US-08-662-327-35	Sequence 35, Appli
136	61.8	61.8	1786	2	US-09-562-702A-14	Sequence 14, Appli	209	33	60.0	1648	2	US-09-017-947-35	Sequence 35, Appli
137	61.8	61.8	1786	2	US-09-562-702A-18	Sequence 18, Appli	210	33	60.0	1648	2	US-09-925-442-15	Sequence 35, Appli
138	61.8	61.8	1786	2	US-09-561-818A-14	Sequence 14, Appli	211	33	60.0	1761	2	US-09-561-709B-1	Sequence 1, Appli
139	61.8	61.8	1786	2	US-09-561-818A-18	Sequence 18, Appli	212	33	60.0	2205	1	US-08-093-453B-2	Sequence 2, Appli
140	61.8	61.8	1786	2	US-09-561-709B-9	Sequence 9, Appli	213	33	60.0	2289	1	US-09-051-019-2	Sequence 2, Appli
141	61.8	61.8	1786	2	US-09-538-092-869	Sequence 869, App	214	33	60.0	3084	2	US-09-562-702A-12	Sequence 12, Appli
142	61.8	61.8	1786	2	US-10-037-182-6	Sequence 6, Appli	215	33	60.0	3106	2	US-09-562-702A-10	Sequence 10, Appli
143	61.8	61.8	1786	2	US-10-037-182-10	Sequence 10, Appli	216	33	59.1	1772	2	US-09-248-796A-20508	Sequence 20508, A
144	61.8	61.8	3433	2	US-09-091-501B-10	Sequence 10, Appli	217	32.5	58.2	37	2	US-09-732-210-260	Sequence 260, App
145	61.8	61.8	3433	2	US-09-538-092-1136	Sequence 1136, Ap	218	32	58.2	37	2	US-09-732-210-990	Sequence 990, App
146	60.9	60.9	814	2	US-10-098-108-7	Sequence 7, Appli	219	32	58.2	37	2	US-09-732-210-994	Sequence 994, App
147	60.0	60.0	26	1	US-08-620-151-80	Sequence 80, Appli	220	32	58.2	39	2	US-09-270-767-40271	Sequence 40271, A
148	60.0	60.0	26	1	US-08-031-538-65	Sequence 65, Appli	221	32	58.2	60	2	US-09-270-767-55467	Sequence 55467, A
149	60.0	60.0	69	2	US-09-621-976-6067	Sequence 6067, Ap	222	32	58.2	60	2	US-09-227-357-518	Sequence 518, App
150	60.0	60.0	142	1	US-08-619-598-1	Sequence 1, Appli	223	32	58.2	60	2	US-09-973-278-629	Sequence 883, App
151	60.0	60.0	150	2	US-09-252-991A-22929	Sequence 22929, A	224	32	58.2	70	2	US-09-732-210-883	Sequence 883, App
152	60.0	60.0	174	2	US-09-270-767-32126	Sequence 32126, A	225	32	58.2	72	2	US-09-252-991A-33669	Sequence 33669, App
153	60.0	60.0	174	2	US-09-270-767-47343	Sequence 47343, A	226	32	58.2	74	2	US-09-513-999C-7370	Sequence 7370, Ap
154	60.0	60.0	184	2	US-09-543-681A-7299	Sequence 7299, Ap	227	32	58.2	80	2	US-09-732-210-893	Sequence 893, App
155	60.0	60.0	270	2	US-10-104-047-3374	Sequence 3274, Ap	228	32	58.2	84	2	US-09-732-210-891	Sequence 891, App
156	60.0	60.0	316	1	US-08-739-486-5	Sequence 5, Appli	229	32	58.2	102	2	US-09-543-681A-5595	Sequence 5595, Ap
157	60.0	60.0	347	1	US-08-157-185-17	Sequence 17, Appli	230	32	58.2	102	2	US-09-583-110-4103	Sequence 4103, Ap
158	60.0	60.0	347	2	US-08-281-526B-17	Sequence 17, Appli	231	32	58.2	113	2	US-09-134-001C-4973	Sequence 4973, Ap
159	60.0	60.0	347	2	US-09-450-790A-17	Sequence 17, Appli	232	32	58.2	115	2	US-09-107-433-6652	Sequence 4652, Ap
160	60.0	60.0	347	2	US-09-332-837-17	Sequence 17, Appli	233	32	58.2	132	2	US-09-270-767-37093	Sequence 37093, A
161	60.0	60.0	366	1	US-07-817-920-2	Sequence 2, Appli	234	32	58.2	132	2	US-09-270-767-52310	Sequence 52310, A
162	60.0	60.0	366	1	US-07-817-920-7	Sequence 7, Appli	235	32	58.2	135	2	US-09-270-767-12685	Sequence 32685, A
163	60.0	60.0	366	1	US-08-117-006-2	Sequence 2, Appli	236	32	58.2	135	2	US-09-270-767-47902	Sequence 47902, A
164	60.0	60.0	366	1	US-08-117-006-7	Sequence 7, Appli	237	32	58.2	154	2	US-08-311-731A-159	Sequence 159, App
165	60.0	60.0	366	1	US-08-216-594-2	Sequence 2, Appli	238	32	58.2	170	2	US-09-270-767-92119	Sequence 3119, A
166	60.0	60.0	366	1	US-08-216-594-7	Sequence 7, Appli	239	32	58.2	170	2	US-09-270-767-47336	Sequence 47336, A
167	60.0	60.0	366	1	US-08-031-538-9	Sequence 9, Appli	240	32	58.2	178	2	US-09-706-722A-7	Sequence 7, Appli
168	60.0	60.0	366	2	US-09-826-509-433	Sequence 433, App	241	32	58.2	192	2	US-08-981-392-65	Sequence 65, Appli
169	60.0	60.0	366	4	PCT-US93-00149-2	Sequence 2, Appli	242	32	58.2	192	2	US-09-908-322-65	Sequence 65, Appli
170	60.0	60.0	366	4	PCT-US93-00149-7	Sequence 7, Appli	243	32	58.2	192	2	US-09-310-685-17	Sequence 17, Appli
171	60.0	60.0	373	1	US-08-864-804-3	Sequence 3, Appli	244	32	58.2	199	2	US-09-270-767-12046	Sequence 42046, A
172	60.0	60.0	397	2	US-09-248-796A-17628	Sequence 17628, A	245	32	58.2	200	2	US-09-134-000C-4738	Sequence 4738, Ap
173	60.0	60.0	403	1	US-08-118-674-1	Sequence 1, Appli	246	32	58.2	229	2	US-09-270-767-44262	Sequence 44262, A

247	32	58.2	236	2	US-09-270-767-41232	Sequence 41232, A	320	32	58.2	1792	2	US-09-561-818A-4	Sequence 4, Appl1
248	32	58.2	236	2	US-09-270-767-56448	Sequence 56448, A	321	32	58.2	1792	2	US-09-561-818A-12	Sequence 12, Appl1
249	32	58.2	238	2	US-09-257-179-80	Sequence 80, Appl1	322	32	58.2	1800	2	US-09-561-818A-8	Sequence 8, Appl1
250	32	58.2	251	1	US-08-665-647-7	Sequence 7, Appl1	323	32	58.2	1816	2	US-09-561-818A-2	Sequence 2, Appl1
251	32	58.2	256	2	US-09-198-452A-910	Sequence 910, App	324	32	58.2	1824	2	US-09-561-818A-10	Sequence 10, Appl1
252	32	58.2	263	2	US-09-248-796A-15305	Sequence 15305, A	325	32	58.2	1816	2	US-09-561-818A-6	Sequence 6, Appl1
253	32	58.2	271	1	US-08-152-019A-28	Sequence 28, Appl1	326	32	58.2	2781	2	US-09-698-295-10	Sequence 10, Appl1
254	32	58.2	273	1	US-08-152-019A-30	Sequence 30, Appl1	327	32	58.2	2907	2	US-08-698-295-5	Sequence 5, Appl1
255	32	58.2	273	1	US-09-248-796A-18580	Sequence 18580, A	328	32	58.2	3075	2	US-08-460-309-5	Sequence 5, Appl1
256	32	58.2	276	2	US-08-981-392-43	Sequence 43, Appl1	329	32	58.2	1355	2	US-08-125-077-5	Sequence 5846, Ap
257	32	58.2	276	2	US-09-908-322-43	Sequence 43, Appl1	330	32	58.2	197	2	US-09-489-039A-9268	Sequence 9268, Ap
258	32	58.2	276	1	US-08-460-309-13	Sequence 13, Appl1	331	31.5	57.3	14	2	US-09-254-776B-67	Sequence 87, Appl1
259	32	58.2	278	1	US-08-125-077-13	Sequence 13, Appl1	332	31	56.4	18	2	US-09-732-210-881	Sequence 12244, A
260	32	58.2	279	1	US-08-152-019A-29	Sequence 29, Appl1	333	31	56.4	73	2	US-09-489-039A-12244	Sequence 29, Appl1
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262	32	58.2	300	2	US-09-270-767-49630	Sequence 49630, A	335	31	56.4	76	2	US-09-406-045-7	Sequence 406, Ap
263	32	58.2	312	2	US-09-949-016-11243	Sequence 11243, A	336	31	56.4	79	2	US-09-489-039A-7561	Sequence 7561, Ap
264	32	58.2	320	2	US-08-739-485-10	Sequence 15998, A	337	31	56.4	81	2	US-09-959-392-19	Sequence 19, Appl1
265	32	58.2	327	1	US-09-543-681A-7685	Sequence 10, Appl1	338	31	56.4	102	2	US-09-513-999C-5846	Sequence 5846, Ap
266	32	58.2	334	2	US-10-104-047-2440	Sequence 7685, Ap	339	31	56.4	104	2	US-09-513-999C-5084	Sequence 9268, Ap
267	32	58.2	334	2	US-10-104-047-2440	Sequence 2440, Ap	340	31	56.4	111	2	US-09-087-031E-18	Sequence 67, Appl1
268	32	58.2	351	2	US-09-248-796A-20887	Sequence 20887, A	341	31	56.4	111	2	US-10-028-051A-6	Sequence 881, App
269	32	58.2	397	1	US-08-868-288A-5	Sequence 5, Appl1	342	31	56.4	111	2	US-10-014-055-6	Sequence 12244, A
270	32	58.2	397	1	US-09-335-373-5	Sequence 5, Appl1	343	31	56.4	111	2	US-09-501-115-38	Sequence 29, Appl1
271	32	58.2	397	2	US-09-388-993-5	Sequence 178, App	344	31	56.4	114	2	US-10-357-886-38	Sequence 87, Appl1
272	32	58.2	397	2	US-09-919-039-178	Sequence 5, Appl1	345	31	56.4	114	2	US-09-270-767-35667	Sequence 39748, A
273	32	58.2	397	2	US-09-538-092-1052	Sequence 1052, Ap	346	31	56.4	116	2	US-09-270-767-54965	Sequence 54965, A
274	32	58.2	397	2	US-09-501-714-5	Sequence 5, Appl1	347	31	56.4	119	2	US-09-248-796A-16756	Sequence 16756, A
275	32	58.2	424	2	US-09-438-185A-848	Sequence 848, App	348	31	56.4	126	2	US-09-248-796A-19288	Sequence 19288, A
276	32	58.2	443	2	US-09-538-092-494	Sequence 494, App	349	31	56.4	141	2	US-09-248-796A-18624	Sequence 37886, A
277	32	58.2	498	2	US-10-104-047-2548	Sequence 2548, Ap	350	31	56.4	141	2	US-09-248-796A-15756	Sequence 18624, A
278	32	58.2	520	2	US-09-068-740A-3	Sequence 3, Appl1	351	31	56.4	143	2	US-09-270-767-58131	Sequence 58131, A
279	32	58.2	533	2	US-09-508-370A-6	Sequence 6, Appl1	352	31	56.4	180	2	US-09-252-991A-10658	Sequence 30658, A
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281	32	58.2	578	2	US-09-908-322-13	Sequence 13, Appl1	354	31	56.4	194	2	US-08-836-442-4	Sequence 4, Appl1
282	32	58.2	643	2	US-09-949-016-10023	Sequence 10023, A	355	31	56.4	201	2	US-09-786-286C-5	Sequence 5, Appl1
283	32	58.2	663	2	US-09-270-767-42041	Sequence 42041, A	356	31	56.4	205	2	US-09-248-796A-19346	Sequence 19346, A
284	32	58.2	676	2	US-09-375-419-10	Sequence 10, Appl1	357	31	56.4	219	2	US-09-270-767-43010	Sequence 43010, A
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286	32	58.2	713	2	US-08-872-855-5	Sequence 5, Appl1	359	31	56.4	245	2	US-08-125-077-14	Sequence 36, Appl1
287	32	58.2	721	2	US-08-872-855-7	Sequence 7, Appl1	360	31	56.4	245	2	US-08-897-340-36	Sequence 36, Appl1
288	32	58.2	721	2	US-08-872-855-7	Sequence 7, Appl1	361	31	56.4	245	2	US-09-252-323-36	Sequence 36, Appl1
289	32	58.2	721	2	US-08-981-392-5	Sequence 5, Appl1	362	31	56.4	245	2	US-10-104-047-1998	Sequence 1998, Ap
290	32	58.2	721	2	US-09-908-322-5	Sequence 5, Appl1	363	31	56.4	248	2	US-09-270-767-58131	Sequence 44243, A
291	32	58.2	721	2	US-09-310-685-12	Sequence 12, Appl1	364	31	56.4	248	2	US-09-270-767-62355	Sequence 62355, A
292	32	58.2	722	2	US-08-981-392-12	Sequence 12, Appl1	365	31	56.4	269	1	US-08-125-077-14	Sequence 14, Appl1
293	32	58.2	722	2	US-09-908-322-12	Sequence 12, Appl1	366	31	56.4	269	1	US-08-652-877-7	Sequence 7, Appl1
294	32	58.2	722	2	US-09-310-685-14	Sequence 14, Appl1	367	31	56.4	281	2	US-08-476-515A-7	Sequence 7, Appl1
295	32	58.2	723	2	US-09-068-740A-9	Sequence 9, Appl1	368	31	56.4	281	2	US-09-328-335-7020	Sequence 7020, Ap
296	32	58.2	723	2	US-09-423-753-27	Sequence 27, Appl1	369	31	56.4	281	2	US-09-134-001C-5652	Sequence 5652, Ap
297	32	58.2	723	2	US-09-641-612-6	Sequence 6, Appl1	370	31	56.4	288	1	US-08-368-852-15	Sequence 15, Appl1
298	32	58.2	723	2	US-08-981-392-2	Sequence 2, Appl1	371	31	56.4	288	1	US-08-525-940-15	Sequence 15, Appl1
299	32	58.2	728	2	US-09-908-322-2	Sequence 2, Appl1	372	31	56.4	288	1	US-08-976-838-15	Sequence 15, Appl1
300	32	58.2	728	2	US-09-310-685-11	Sequence 11, Appl1	373	31	56.4	288	1	US-09-800-729-196	Sequence 196, App
301	32	58.2	728	2	US-08-872-855-8	Sequence 8, Appl1	374	31	56.4	313	2	US-09-248-796A-17661	Sequence 17661, A
302	32	58.2	729	1	US-08-789-078-1	Sequence 1, Appl1	375	31	56.4	313	2	US-09-543-681A-4839	Sequence 4839, Ap
303	32	58.2	729	1	US-08-752-633-1	Sequence 1, Appl1	376	31	56.4	337	2	US-09-248-796A-15931	Sequence 15931, A
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305	32	58.2	729	1	US-07-728-215-31	Sequence 31, Appl1	378	31	56.4	337	2	US-09-489-039A-10257	Sequence 10257, A
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308	32	58.2	729	2	US-10-072-844-31	Sequence 31, Appl1	381	31	56.4	358	2	US-10-357-886-6	Sequence 6, Appl1
309	32	58.2	729	2	US-10-072-844-31	Sequence 31, Appl1	382	31	56.4	358	2	US-08-933-750C-14	Sequence 14, Appl1
310	32	58.2	769	2	US-10-219-631A-31	Sequence 31, Appl1	383	31	56.4	368	1	US-09-234-613-14	Sequence 14, Appl1
311	32	58.2	769	2	US-10-219-631A-31	Sequence 31, Appl1	384	31	56.4	368	1	US-09-949-016-6775	Sequence 6775, Ap
312	32	58.2	769	4	PCT-US95-04886-1	Sequence 45, Appl1	385	31	56.4	368	2	US-09-949-016-7626	Sequence 7626, Ap
313	32	58.2	769	4	PCT-US96-01314-45	Sequence 45, Appl1	386	31	56.4	371	2	US-09-538-092-548	Sequence 548, App
314	32	58.2	831	4	US-09-047-026A-4	Sequence 15743, A	387	31	56.4	374	2	US-09-690-454-83	Sequence 83, Appl1
315	32	58.2	945	2	US-09-248-796A-15743	Sequence 2, Appl1	388	31	56.4	376	2	US-09-200-965-2	Sequence 2, Appl1
316	32	58.2	950	2	US-09-409-604-2	Sequence 4, Appl1	389	31	56.4				
317	32	58.2	984	2	US-09-409-604-4	Sequence 24, Appl1	390	31	56.4				
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397	31	56.4	403	2	US-09-470-526-2	Sequence 2, Appli
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508	31	56.4	1798	2	US-09-917-254-87	Sequence 87, Appli
509	31	56.4	1799	2	US-09-845-583A-6	Sequence 6, Appli
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538	31	56.4	1863	2	US-08-986-106-2	Sequence 2, Appli

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541	31	56.4	1863	2	US-10-022-819-2	Sequence 2, Appl	614	30	54.5	84	2	US-09-338-063A-82	Sequence 82, Appl
542	31	56.4	1863	2	US-09-462-801A-2	Sequence 2, Appl	615	30	54.5	88	2	US-09-482-273-178	Sequence 178, Appl
543	31	56.4	1863	2	US-09-538-092-1098	Sequence 1098, Ap	616	30	54.5	88	2	US-09-950-933A-56	Sequence 56, Appl
544	31	56.4	1863	2	US-09-734-672A-2	Sequence 2, Appl	617	30	54.5	88	2	US-09-950-933A-57	Sequence 57, Appl
545	31	56.4	1863	2	US-09-734-672A-4	Sequence 4, Appl	618	30	54.5	88	2	US-09-950-933A-74	Sequence 74, Appl
546	31	56.4	1863	2	US-09-734-672A-6	Sequence 6, Appl	619	30	54.5	91	2	US-08-814-836-18	Sequence 18, Appl
547	31	56.4	1863	2	US-09-923-327A-264	Sequence 264, App	620	30	54.5	106	2	US-10-232-858-78	Sequence 78, Appl
548	31	56.4	1863	2	US-09-923-327A-266	Sequence 266, App	621	30	54.5	106	2	US-09-338-063A-78	Sequence 78, Appl
549	31	56.4	1863	2	US-09-923-327A-268	Sequence 268, App	622	30	54.5	107	2	US-09-338-352-4494	Sequence 4494, Ap
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552	31	56.4	1863	4	PCT-US95-10220-2	Sequence 2, Appl	625	30	54.5	116	2	US-09-248-796A-24747	Sequence 8161, Ap
553	31	56.4	2368	1	US-08-198-446B-15	Sequence 15, Appl	626	30	54.5	117	2	US-09-513-999C-8161	Sequence 6111, Ap
554	31	56.4	2368	1	US-08-870-693-15	Sequence 15, Appl	627	30	54.5	129	2	US-09-543-681A-6111	Sequence 6112, App
555	31	56.4	4544	1	US-08-469-486-52	Sequence 52, Appl	628	30	54.5	137	2	US-08-961-083-112	Sequence 112, App
556	31	56.4	4544	1	US-08-469-658-52	Sequence 52, Appl	629	30	54.5	137	2	US-09-536-784-112	Sequence 112, App
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558	30.5	55.5	314	1	US-08-460-309-19	Sequence 19, Appl	631	30	54.5	137	2	US-09-765-272A-112	Sequence 112, App
559	30.5	55.5	314	1	US-08-125-077-19	Sequence 48, Appl	632	30	54.5	139	2	US-08-706-945D-130	Sequence 130, App
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563	30	54.5	17	1	US-08-077-256-2	Sequence 2, Appl	636	30	54.5	143	2	US-09-338-063A-77	Sequence 77, Appl
564	30	54.5	17	1	US-08-259-672-2	Sequence 2, Appl	637	30	54.5	144	2	US-09-949-016-11102	Sequence 11102, A
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567	30	54.5	17	4	PCT-US94-06654-2	Sequence 40, Appl	640	30	54.5	147	2	US-09-527-236A-20	Sequence 20, Appl
568	30	54.5	19	2	US-08-795-445A-40	Sequence 40, Appl	641	30	54.5	147	2	US-09-756-864-20	Sequence 20, Appl
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571	30	54.5	19	2	US-08-974-186-40	Sequence 40, Appl	644	30	54.5	147	2	US-09-095-094-20	Sequence 20, Appl
572	30	54.5	19	2	US-08-795-446B-40	Sequence 40, Appl	645	30	54.5	147	2	US-09-095-094-20	Sequence 13, Appl
573	30	54.5	19	2	US-08-706-945D-62	Sequence 62, Appl	646	30	54.5	154	2	US-10-232-858-13	Sequence 13, Appl
574	30	54.5	19	2	US-09-205-258-487	Sequence 487, App	647	30	54.5	154	2	US-09-338-063A-13	Sequence 13, Appl
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576	30	54.5	19	2	US-10-004-660-487	Sequence 487, App	649	30	54.5	158	2	US-09-422-660A-24	Sequence 24, Appl
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580	30	54.5	35	1	US-08-874-347-8	Sequence 8, Appl	653	30	54.5	161	2	US-08-477-443-3	Sequence 3, Appl
581	30	54.5	35	2	US-09-093-532-8	Sequence 8, Appl	654	30	54.5	166	1	US-09-788-070-4	Sequence 4, Appl
582	30	54.5	35	2	US-09-489-847-295	Sequence 295, App	655	30	54.5	166	2	US-10-142-313-4	Sequence 4, Appl
583	30	54.5	37	2	US-09-732-210-507	Sequence 507, App	656	30	54.5	166	2	US-09-155-252A-4	Sequence 4, Appl
584	30	54.5	37	2	US-09-732-210-512	Sequence 512, App	657	30	54.5	166	2	US-08-460-309-20	Sequence 20, Appl
585	30	54.5	38	2	US-09-732-210-593	Sequence 993, App	658	30	54.5	169	1	US-08-125-077-20	Sequence 20, Appl
586	30	54.5	41	2	US-09-270-767-61184	Sequence 61184, A	659	30	54.5	169	1	US-08-463-375-4	Sequence 4, Appl
587	30	54.5	41	2	US-09-774-639-339	Sequence 339, App	660	30	54.5	169	2	US-08-706-945D-136	Sequence 136, App
588	30	54.5	46	2	US-08-814-836-2	Sequence 2, Appl	661	30	54.5	174	2	US-09-270-767-59391	Sequence 59391, A
589	30	54.5	47	2	US-08-706-945D-143	Sequence 143, App	662	30	54.5	174	2	US-09-252-991A-32157	Sequence 32157, A
590	30	54.5	47	2	US-08-974-022-93	Sequence 43, Appl	663	30	54.5	176	2	US-09-107-532A-5901	Sequence 5901, Ap
591	30	54.5	48	2	US-08-795-445A-43	Sequence 43, Appl	664	30	54.5	180	2	US-09-940-016-6478	Sequence 6478, Ap
592	30	54.5	48	2	US-08-795-447A-43	Sequence 43, Appl	665	30	54.5	180	2	US-09-482-273-114	Sequence 114, App
593	30	54.5	48	2	US-08-974-186-43	Sequence 43, Appl	666	30	54.5	181	2	US-09-482-273-114	Sequence 58775, A
594	30	54.5	48	2	US-08-795-446B-43	Sequence 43, Appl	667	30	54.5	183	2	US-09-270-767-58775	Sequence 166, App
595	30	54.5	48	2	US-08-577-788C-43	Sequence 43, Appl	668	30	54.5	184	2	US-09-893-737-168	Sequence 81, Appl
596	30	54.5	52	2	US-08-814-836-16	Sequence 16, Appl	669	30	54.5	187	2	US-10-232-858-81	Sequence 81, Appl
597	30	54.5	52	2	US-08-814-836-16	Sequence 16, Appl	670	30	54.5	187	2	US-09-338-063A-81	Sequence 81, Appl
598	30	54.5	68	2	US-09-270-767-61430	Sequence 61430, A	671	30	54.5	197	1	US-08-327-535-2	Sequence 3, Appl
599	30	54.5	70	2	US-08-974-022-41	Sequence 41, Appl	672	30	54.5	197	1	US-09-902-540-14453	Sequence 14453, A
600	30	54.5	70	2	US-08-795-445A-41	Sequence 41, Appl	673	30	54.5	197	2	US-10-232-858-76	Sequence 76, Appl
601	30	54.5	70	2	US-08-795-447A-41	Sequence 41, Appl	674	30	54.5	197	2	US-09-338-063A-76	Sequence 76, Appl
602	30	54.5	70	2	US-08-974-186-41	Sequence 41, Appl	675	30	54.5	197	2	US-09-338-063A-76	Sequence 14667, A
603	30	54.5	70	2	US-08-795-446B-41	Sequence 41, Appl	676	30	54.5	199	2	US-09-248-796A-14467	Sequence 14667, A
604	30	54.5	70	2	US-08-706-945D-119	Sequence 119, App	677	30	54.5	208	2	US-08-577-788C-50	Sequence 50, Appl
605	30	54.5	70	2	US-09-134-001C-2959	Sequence 2959, App	678	30	54.5	208	2	US-08-327-535-2	Sequence 2, Appl
606	30	54.5	70	2	US-09-733-210-884	Sequence 884, App	679	30	54.5	218	1	US-08-327-535-2	Sequence 2, Appl
607	30	54.5	70	2	US-09-733-210-885	Sequence 885, App	680	30	54.5	218	4	PCT-US94-04496-2	Sequence 2, Appl
608	30	54.5	73	2	US-08-577-788C-41	Sequence 41, Appl	681	30	54.5	218	4	US-09-270-767-38098	Sequence 38098, A
609	30	54.5	73	2	US-09-513-999C-7636	Sequence 7636, App	682	30	54.5	223	2	US-09-270-767-53315	Sequence 53315, A
610	30	54.5	75	2	US-09-134-000C-4423	Sequence 4423, App	683	30	54.5	223	2	US-09-270-767-53315	Sequence 53315, A
611	30	54.5	76	2	US-09-328-352-4506	Sequence 4506, App	684	30	54.5	226	2	US-09-133-321-2	Sequence 2, Appl
612	30	54.5	77	2	US-08-061-376-11	Sequence 11, Appl	684	30	54.5	226	2	US-09-133-321-2	Sequence 2, Appl

685	30	54.5	226	2	US-10-176-884-18	Sequence 18, Appl	758	30	54.5	386	2	US-09-949-016-11378	Sequence 11378, A
686	30	54.5	231	2	US-09-324-258-20	Sequence 20, Appl	759	30	54.5	391	2	US-10-232-858-106	Sequence 106, App
687	30	54.5	238	1	US-08-483-101-2	Sequence 2, Appl1	760	30	54.5	391	2	US-09-338-063A-106	Sequence 106, App
688	30	54.5	240	2	US-09-489-847-143	Sequence 143, App	761	30	54.5	392	2	US-09-270-767-12487	Sequence 42487, A
689	30	54.5	252	2	US-09-270-767-57783	Sequence 57783, A	762	30	54.5	393	2	US-10-232-858-79	Sequence 79, Appl
690	30	54.5	254	2	US-09-270-767-33738	Sequence 33738, A	763	30	54.5	393	2	US-09-338-063A-79	Sequence 79, Appl
691	30	54.5	254	2	US-09-270-767-48955	Sequence 48955, A	764	30	54.5	394	2	US-09-949-016-9551	Sequence 9551, Ap
692	30	54.5	257	1	US-08-077-256-1	Sequence 1, Appl1	765	30	54.5	394	2	US-10-232-858-9	Sequence 9, Appl1
693	30	54.5	257	1	US-08-259-672-1	Sequence 1, Appl1	766	30	54.5	394	2	US-09-338-063A-9	Sequence 9, Appl1
694	30	54.5	257	1	US-08-459-351-1	Sequence 1, Appl1	767	30	54.5	399	2	US-10-232-858-73	Sequence 73, Appl
695	30	54.5	257	1	US-08-460-533-1	Sequence 1, Appl1	768	30	54.5	399	2	US-09-338-063A-73	Sequence 73, Appl
696	30	54.5	257	4	PCR-US94-06654-1	Sequence 4, Appl1	769	30	54.5	401	2	US-08-974-022-2	Sequence 2, Appl1
697	30	54.5	264	2	US-09-270-767-43984	Sequence 43984, A	770	30	54.5	401	2	US-08-974-022-6	Sequence 6, Appl1
698	30	54.5	272	2	US-09-270-767-31963	Sequence 31963, A	771	30	54.5	401	2	US-08-974-022-6	Sequence 6, Appl1
699	30	54.5	272	2	US-09-270-767-43425	Sequence 43425, A	772	30	54.5	401	2	US-09-042-785A-12	Sequence 12, Appl
700	30	54.5	272	2	US-09-270-767-47180	Sequence 47180, A	773	30	54.5	401	2	US-09-042-785A-13	Sequence 13, Appl
701	30	54.5	272	2	US-10-232-858-75	Sequence 75, Appl	774	30	54.5	401	2	US-08-795-445A-2	Sequence 2, Appl1
702	30	54.5	272	2	US-09-338-063A-75	Sequence 75, Appl	775	30	54.5	401	2	US-08-795-445A-4	Sequence 4, Appl1
703	30	54.5	273	2	US-09-270-767-37545	Sequence 37545, A	776	30	54.5	401	2	US-08-795-445A-6	Sequence 6, Appl1
704	30	54.5	273	2	US-09-270-767-52762	Sequence 52762, A	777	30	54.5	401	2	US-08-795-447A-2	Sequence 2, Appl1
705	30	54.5	284	2	US-09-248-796A-15143	Sequence 15143, A	778	30	54.5	401	2	US-08-795-447A-4	Sequence 4, Appl1
706	30	54.5	293	2	US-09-896-096A-18	Sequence 18, Appl	779	30	54.5	401	2	US-08-795-447A-6	Sequence 6, Appl1
707	30	54.5	296	2	US-09-489-847-293	Sequence 293, App	780	30	54.5	401	2	US-08-974-186-2	Sequence 2, Appl1
708	30	54.5	297	2	US-09-949-016-7791	Sequence 7791, Ap	781	30	54.5	401	2	US-08-974-186-6	Sequence 6, Appl1
709	30	54.5	299	1	US-09-047-026A-24	Sequence 24, Appl	782	30	54.5	401	2	US-08-974-186-6	Sequence 6, Appl1
710	30	54.5	300	1	US-08-874-347-10	Sequence 10, Appl	783	30	54.5	401	2	US-08-795-446B-2	Sequence 2, Appl1
711	30	54.5	300	2	US-09-093-522-10	Sequence 10, Appl	784	30	54.5	401	2	US-08-795-446B-4	Sequence 4, Appl1
712	30	54.5	310	1	US-09-047-026A-25	Sequence 25, Appl	785	30	54.5	401	2	US-08-795-446B-6	Sequence 6, Appl1
713	30	54.5	316	2	US-09-270-767-42670	Sequence 42670, A	786	30	54.5	401	2	US-09-153-927-1	Sequence 1, Appl1
714	30	54.5	321	2	US-10-232-858-80	Sequence 80, Appl	787	30	54.5	401	2	US-09-072-993C-1	Sequence 1, Appl1
715	30	54.5	321	2	US-09-338-063A-80	Sequence 80, Appl	788	30	54.5	401	2	US-08-706-945D-124	Sequence 124, App
716	30	54.5	324	2	US-09-270-767-45894	Sequence 45894, A	789	30	54.5	401	2	US-08-706-945D-126	Sequence 126, App
717	30	54.5	326	2	US-10-232-858-71	Sequence 71, Appl	790	30	54.5	401	2	US-08-706-945D-128	Sequence 128, App
718	30	54.5	326	2	US-09-338-063A-71	Sequence 71, Appl	791	30	54.5	401	2	US-08-577-788C-2	Sequence 2, Appl1
719	30	54.5	327	2	US-10-232-858-72	Sequence 72, Appl	792	30	54.5	401	2	US-08-577-788C-4	Sequence 4, Appl1
720	30	54.5	327	1	US-09-338-063A-72	Sequence 72, Appl	793	30	54.5	401	2	US-08-577-788C-54	Sequence 54, Appl
721	30	54.5	329	1	US-08-739-485-3	Sequence 3, Appl1	794	30	54.5	401	2	US-08-577-788C-55	Sequence 55, Appl
722	30	54.5	330	2	US-09-248-796A-19977	Sequence 19977, A	795	30	54.5	401	2	US-08-577-788C-56	Sequence 56, Appl
723	30	54.5	333	2	US-09-107-532A-7050	Sequence 7050, Ap	796	30	54.5	401	2	US-09-064-832-2	Sequence 2, Appl1
724	30	54.5	338	1	US-09-047-026A-2	Sequence 2, Appl1	797	30	54.5	401	2	US-10-232-858-5	Sequence 5, Appl1
725	30	54.5	342	1	US-08-871-268A-17	Sequence 17, Appl	798	30	54.5	401	2	US-10-232-858-62	Sequence 62, Appl
726	30	54.5	342	2	US-08-871-267B-25	Sequence 25, Appl	799	30	54.5	401	2	US-10-232-858-63	Sequence 63, Appl
727	30	54.5	342	2	US-09-618-419-25	Sequence 25, Appl	800	30	54.5	401	2	US-10-232-858-64	Sequence 64, Appl
728	30	54.5	342	2	US-09-163-674-17	Sequence 17, Appl	801	30	54.5	401	2	US-10-232-858-65	Sequence 65, Appl
729	30	54.5	342	2	US-08-840-713-4	Sequence 4, Appl1	802	30	54.5	401	2	US-10-232-858-65	Sequence 65, Appl
730	30	54.5	348	1	US-09-270-767-45955	Sequence 45955, A	803	30	54.5	401	2	US-09-338-063A-66	Sequence 66, Appl
731	30	54.5	348	1	US-08-118-270-13	Sequence 13, Appl	804	30	54.5	401	2	US-09-338-063A-62	Sequence 62, Appl
732	30	54.5	348	4	PCR-US93-08528-13	Sequence 13, Appl	805	30	54.5	401	2	US-09-338-063A-63	Sequence 63, Appl
733	30	54.5	349	2	US-09-252-991A-26789	Sequence 26789, A	806	30	54.5	401	2	US-09-338-063A-64	Sequence 64, Appl
734	30	54.5	350	2	US-08-637-670-39	Sequence 39, Appl	807	30	54.5	401	2	US-09-338-063A-65	Sequence 65, Appl
735	30	54.5	350	2	US-09-270-767-42267	Sequence 42267, A	808	30	54.5	401	2	US-09-338-063A-66	Sequence 66, Appl
736	30	54.5	351	2	US-07-945-295-2	Sequence 2, Appl1	809	30	54.5	401	2	US-10-166-653-18	Sequence 18, Appl
737	30	54.5	351	2	US-10-232-858-74	Sequence 74, Appl	810	30	54.5	405	2	US-09-949-016-9688	Sequence 9688, Ap
738	30	54.5	351	4	PCR-US91-06418-1	Sequence 1, Appl1	811	30	54.5	415	2	US-09-248-796A-19656	Sequence 19656, A
739	30	54.5	355	2	US-09-082-270-2	Sequence 2, Appl1	812	30	54.5	421	2	US-08-840-713-6	Sequence 6, Appl1
740	30	54.5	357	2	US-10-104-047-2570	Sequence 2570, Ap	813	30	54.5	424	2	US-09-902-540-13276	Sequence 13276, A
741	30	54.5	358	2	US-09-248-796A-19596	Sequence 19596, A	814	30	54.5	430	2	US-09-902-540-13276	Sequence 13276, A
742	30	54.5	359	2	US-10-232-858-68	Sequence 68, Appl	815	30	54.5	430	2	US-09-538-092-446	Sequence 446, App
743	30	54.5	359	2	US-10-232-858-70	Sequence 70, Appl	816	30	54.5	458	2	US-09-538-092-446	Sequence 446, App
744	30	54.5	359	2	US-09-338-063A-68	Sequence 68, Appl	817	30	54.5	459	1	US-08-870-518-4	Sequence 4, Appl1
745	30	54.5	359	2	US-09-338-063A-70	Sequence 70, Appl	818	30	54.5	475	2	US-10-087-167-129	Sequence 129, App
746	30	54.5	362	2	US-10-232-858-11	Sequence 11, Appl	819	30	54.5	481	2	US-09-248-796A-19010	Sequence 19010, A
747	30	54.5	362	2	US-09-338-063A-11	Sequence 11, Appl	820	30	54.5	487	2	US-10-104-047-3083	Sequence 3083, Ap
748	30	54.5	363	2	US-10-232-858-69	Sequence 69, Appl	821	30	54.5	488	1	US-08-933-750C-17	Sequence 17, Appl
749	30	54.5	363	2	US-09-338-063A-69	Sequence 69, Appl	822	30	54.5	496	2	US-09-234-613-13	Sequence 13, Appl
750	30	54.5	364	2	US-08-706-945D-141	Sequence 141, App	823	30	54.5	497	2	US-08-840-713-39	Sequence 39, Appl
751	30	54.5	364	2	US-08-706-945D-142	Sequence 142, App	824	30	54.5	500	2	US-09-830-751-4	Sequence 4, Appl1
752	30	54.5	367	2	US-09-949-016-6722	Sequence 6722, Ap	825	30	54.5	517	2	US-09-538-092-851	Sequence 851, App
753	30	54.5	376	1	US-08-846-762-12	Sequence 12, Appl	826	30	54.5	520	2	US-09-949-016-10653	Sequence 10653, A
754	30	54.5	380	2	US-10-232-858-4	Sequence 4, Appl1	827	30	54.5	530	2	US-08-840-713-2	Sequence 2, Appl1
755	30	54.5	380	2	US-09-338-063A-4	Sequence 4, Appl1	828	30	54.5	532	2	US-09-826-509-521	Sequence 521, App
756	30	54.5	383	2	US-09-252-991A-28656	Sequence 28656, A	829	30	54.5				
757	30	54.5					830	30	54.5				

831	30	54.5	533	2	US-09-347-819-2	Sequence 2, Appli	904	30	54.5	1125	2	US-09-949-016-10194	Sequence 10194, A
832	30	54.5	545	2	US-09-248-796A-24484	Sequence 24484, A	905	30	54.5	1172	2	US-09-560-385A-28	Sequence 28, Appli
833	30	54.5	553	2	US-10-087-167-105	Sequence 105, App	906	30	54.5	1172	2	US-09-560-385A-32	Sequence 32, Appli
834	30	54.5	577	2	US-10-104-047-2569	Sequence 2569, Ap	907	30	54.5	1190	2	US-10-053-682A-13	Sequence 2, Appli
835	30	54.5	580	2	US-08-482-677-10	Sequence 10, Appli	908	30	54.5	1191	2	US-09-949-016-6-356	Sequence 6356, Ap
836	30	54.5	580	2	US-10-033-174-10	Sequence 121, App	909	30	54.5	1193	1	US-08-317-450B-13	Sequence 13, Appli
837	30	54.5	588	2	US-10-087-167-111	Sequence 123, App	910	30	54.5	1193	2	US-08-800-593-13	Sequence 26, Appli
838	30	54.5	588	2	US-10-087-167-123	Sequence 1194, Ap	911	30	54.5	1193	2	US-09-560-385A-26	Sequence 30, Appli
839	30	54.5	589	2	US-09-538-092-1194	Sequence 119, App	912	30	54.5	1193	2	US-09-560-385A-31	Sequence 31, Appli
840	30	54.5	591	2	US-10-087-167-119	Sequence 125, App	913	30	54.5	1193	2	US-10-053-682A-31	Sequence 13, Appli
841	30	54.5	593	2	US-10-087-167-135	Sequence 127, App	914	30	54.5	1214	2	US-09-756-071B-13	Sequence 6885, Ap
842	30	54.5	599	2	US-10-087-167-137	Sequence 148, App	915	30	54.5	1214	2	US-09-949-016-6885	Sequence 5319, Ap
843	30	54.5	599	2	US-10-087-167-148	Sequence 143, App	916	30	54.5	1215	2	US-09-134-001C-5319	Sequence 98, Appli
844	30	54.5	602	2	US-10-087-167-143	Sequence 35, Appli	917	30	54.5	1218	2	US-09-198-452A-98	Sequence 6020, Ap
845	30	54.5	615	2	US-10-087-167-135	Sequence 135, App	918	30	54.5	1224	2	US-09-107-532A-6220	Sequence 3670, Ap
846	30	54.5	615	2	US-10-087-167-135	Sequence 14, Appli	919	30	54.5	1225	2	US-09-583-110-3637	Sequence 4267, Ap
847	30	54.5	616	2	US-09-388-743-14	Sequence 14, Appli	920	30	54.5	1239	2	US-09-107-433-4267	Sequence 7130, Ap
848	30	54.5	616	2	US-10-044-543-14	Sequence 37, Appli	921	30	54.5	1318	2	US-09-949-016-7130	Sequence 7, Appli
849	30	54.5	617	2	US-08-840-713-37	Sequence 137, App	922	30	54.5	1400	2	US-08-080-255-7	Sequence 7, Appli
850	30	54.5	620	2	US-10-087-167-137	Sequence 6, Appli	923	30	54.5	1400	2	US-08-465-713-7	Sequence 84, Appli
851	30	54.5	627	2	US-09-687-538B-6	Sequence 137, App	924	30	54.5	1400	2	PCT-US93-0857-7	Sequence 84, Appli
852	30	54.5	627	2	US-10-309-937-6	Sequence 6, Appli	925	30	54.5	1410	2	US-09-438-165A-84	Sequence 10970, A
853	30	54.5	630	2	US-09-252-991A-31264	Sequence 31264, A	926	30	54.5	1935	2	US-09-949-016-10970	Sequence 1371, Ap
854	30	54.5	634	2	US-10-164-595-69	Sequence 69, Appli	927	30	54.5	2004	2	US-09-538-092-1371	Sequence 6756, Ap
855	30	54.5	639	2	US-09-248-796A-17567	Sequence 17567, A	928	30	54.5	2004	2	US-09-949-016-6756	Sequence 8301, Ap
856	30	54.5	648	1	US-08-276-151-2	Sequence 2, Appli	929	30	54.5	2079	2	US-09-949-016-8301	Sequence 5, Appli
857	30	54.5	648	1	US-08-185-282-1	Sequence 1, Appli	930	30	54.5	3969	2	US-08-061-376-5	Sequence 1262, Ap
858	30	54.5	648	1	US-08-185-282-2	Sequence 2, Appli	931	30	54.5	3969	2	US-09-538-092-1262	Sequence 7156, Ap
859	30	54.5	648	1	US-08-185-282-3	Sequence 3, Appli	932	30	54.5	478	2	US-09-949-016-7156	Sequence 7766, App
860	30	54.5	648	1	US-08-185-282-4	Sequence 4, Appli	933	30	53.6	552	2	US-09-198-452A-7766	Sequence 25337, A
861	30	54.5	648	1	US-08-185-282-5	Sequence 5, Appli	934	29.5	53.6	478	2	US-09-248-796A-25337	Sequence 52, Appli
862	30	54.5	648	1	US-08-185-282-12	Sequence 12, Appli	935	29.5	53.6	478	2	US-10-216-556A-52	Sequence 1141, Ap
863	30	54.5	648	1	US-08-886-751A-6	Sequence 6, Appli	936	29	52.7	4	2	US-08-159-339A-1141	Sequence 11, Ap
864	30	54.5	648	2	US-09-709-668-13	Sequence 13, Appli	937	29	52.7	11	2	US-08-026-633-3	Sequence 3, Appli
865	30	54.5	648	2	US-08-971-207-1	Sequence 1, Appli	938	29	52.7	15	2	US-09-009-953-93	Sequence 93, Appli
866	30	54.5	648	2	US-08-107-953-3	Sequence 3, Appli	939	29	52.7	15	2	US-09-459-749D-11	Sequence 17, Appli
867	30	54.5	658	2	US-08-953-040-9	Sequence 9, Appli	940	29	52.7	15	2	US-10-013-009-3	Sequence 3, Appli
868	30	54.5	681	2	US-09-252-991A-25690	Sequence 25690, A	941	29	52.7	15	2	US-10-120-508-15	Sequence 15, Appli
869	30	54.5	717	2	US-08-872-855-9	Sequence 9, Appli	942	29	52.7	16	1	US-08-036-555B-17	Sequence 17, Appli
870	30	54.5	725	2	US-10-164-595-30	Sequence 30, Appli	943	29	52.7	16	1	US-08-036-555B-127	Sequence 127, Appli
871	30	54.5	730	2	US-09-398-865A-2	Sequence 2, Appli	944	29	52.7	16	1	US-08-469-559-127	Sequence 17, Appli
872	30	54.5	730	2	US-09-110-714-2	Sequence 2, Appli	945	29	52.7	16	1	US-08-469-559-127	Sequence 17, Appli
873	30	54.5	768	1	US-08-454-455-4	Sequence 4, Appli	946	29	52.7	16	1	US-08-469-559-127	Sequence 17, Appli
874	30	54.5	803	2	US-09-063-035-2	Sequence 2, Appli	947	29	52.7	16	1	US-08-249-322A-127	Sequence 127, App
875	30	54.5	810	2	US-09-538-092-1275	Sequence 1275, Ap	948	29	52.7	16	1	US-08-469-526A-127	Sequence 127, App
876	30	54.5	867	2	US-10-104-047-3052	Sequence 3052, Ap	949	29	52.7	16	1	US-08-469-526A-127	Sequence 127, App
877	30	54.5	881	1	US-08-333-901-1	Sequence 1, Appli	950	29	52.7	16	1	US-08-734-591A-127	Sequence 127, App
878	30	54.5	881	1	US-08-456-582-1	Sequence 1, Appli	951	29	52.7	16	1	US-08-734-591A-127	Sequence 127, App
879	30	54.5	881	2	US-08-898-789-1	Sequence 1, Appli	952	29	52.7	16	1	US-08-469-660-17	Sequence 17, Appli
880	30	54.5	881	2	US-09-039-555B-16	Sequence 16, Appli	953	29	52.7	16	1	US-08-469-660-127	Sequence 17, Appli
881	30	54.5	904	2	US-09-324-258-7	Sequence 7, Appli	954	29	52.7	16	2	US-08-470-333-127	Sequence 127, App
882	30	54.5	904	2	US-09-328-352-4656	Sequence 4656, Ap	955	29	52.7	16	2	US-08-470-333-127	Sequence 127, App
883	30	54.5	906	2	US-09-352-991A-31458	Sequence 31458, A	956	29	52.7	16	2	US-08-735-021-117	Sequence 127, App
884	30	54.5	906	2	US-09-863-901-6	Sequence 6, Appli	957	29	52.7	16	2	US-08-735-021-117	Sequence 127, App
885	30	54.5	917	2	US-09-489-039A-12582	Sequence 12582, A	958	29	52.7	16	2	US-08-734-664A-127	Sequence 127, App
886	30	54.5	917	2	US-09-489-039A-12582	Sequence 12582, A	959	29	52.7	16	2	US-08-734-664A-127	Sequence 127, App
887	30	54.5	930	2	US-08-953-681A-4258	Sequence 4258, Ap	960	29	52.7	16	2	US-08-470-333-127	Sequence 127, App
888	30	54.5	930	2	US-08-953-681A-4258	Sequence 2, Appli	961	29	52.7	16	2	US-08-470-333-127	Sequence 127, App
889	30	54.5	930	2	US-09-583-110-3208	Sequence 3208, Ap	962	29	52.7	16	2	US-08-467-602-17	Sequence 127, App
890	30	54.5	939	2	US-09-107-433-4543	Sequence 4543, Ap	963	29	52.7	16	2	US-08-467-602-17	Sequence 127, App
891	30	54.5	944	2	US-09-449-285A-2	Sequence 2, Appli	964	29	52.7	16	2	US-10-120-508-7	Sequence 7, Appli
892	30	54.5	944	2	US-09-964-238-2	Sequence 2, Appli	965	29	52.7	16	2	PCT-US94-05083C-17	Sequence 17, Appli
893	30	54.5	946	2	US-09-902-540-16817	Sequence 16817, A	966	29	52.7	16	4	PCT-US94-05083C-123	Sequence 123, App
894	30	54.5	961	2	US-10-200-012-14	Sequence 14, Appli	967	29	52.7	16	4	PCT-US95-06846A-17	Sequence 17, Appli
895	30	54.5	962	2	US-09-248-796A-19159	Sequence 19159, A	968	29	52.7	16	4	PCT-US95-06846A-127	Sequence 127, App
896	30	54.5	972	2	US-08-335-844A-24	Sequence 24, Appli	969	29	52.7	19	1	US-08-466-033-79	Sequence 79, Appli
897	30	54.5	972	2	US-09-129-366-24	Sequence 24, Appli	970	29	52.7	19	1	US-08-444-733-79	Sequence 79, Appli
898	30	54.5	1059	2	US-09-134-000C-5600	Sequence 5600, Ap	971	29	52.7	19	1	US-08-464-134-79	Sequence 79, Appli
899	30	54.5	1077	2	US-10-104-047-2291	Sequence 2291, Ap	972	29	52.7	19	1	US-08-461-361-79	Sequence 79, Appli
900	30	54.5	1104	2	US-10-104-047-2506	Sequence 2506, Ap	973	29	52.7	19	1	US-08-485-910-79	Sequence 8, Appli
901	30	54.5	1111	1	US-08-317-450B-15	Sequence 15, Appli	974	29	52.7	19	2	US-10-120-508-8	Sequence 8, Appli
902	30	54.5	1111	1	US-08-800-593-15	Sequence 15, Appli	975	29	52.7	19	2	Pct-US95-06266-63	Sequence 63, Appli
903	30	54.5	1111	2	US-09-756-071B-15	Sequence 15, Appli	976	29	52.7	19	4		

977 29 52.7 20 2 US-09-257-179-81 Sequence 81, Appl
978 29 52.7 25 1 US-08-620-151-23 Sequence 23, Appl
979 29 52.7 26 1 US-08-620-151-7 Sequence 7, Appl
980 29 52.7 26 1 US-08-620-151-101 Sequence 101, App
981 29 52.7 27 2 US-09-270-767-60621 Sequence 60621, A
982 29 52.7 28 1 US-08-616-857-3 Sequence 3, Appl
983 29 52.7 34 2 US-09-661-711A-59 Sequence 29, Appl
984 29 52.7 34 2 US-10-012-819-6 Sequence 71, Appl
985 29 52.7 36 1 US-08-466-033-71 Sequence 71, Appl
986 29 52.7 36 1 US-08-466-033-77 Sequence 77, Appl
987 29 52.7 36 1 US-08-444-733-71 Sequence 77, Appl
988 29 52.7 36 1 US-08-444-733-77 Sequence 77, Appl
989 29 52.7 36 1 US-08-464-134-71 Sequence 77, Appl
990 29 52.7 36 1 US-08-464-134-77 Sequence 77, Appl
991 29 52.7 36 1 US-08-461-361-71 Sequence 71, Appl
992 29 52.7 36 1 US-08-461-361-77 Sequence 71, Appl
993 29 52.7 36 1 US-08-485-910-71 Sequence 71, Appl
994 29 52.7 36 1 US-08-485-910-77 Sequence 77, Appl
995 29 52.7 36 4 PCT-US95-06266-55 Sequence 55, Appl
996 29 52.7 36 4 PCT-US95-06266-61 Sequence 61, Appl
997 29 52.7 42 2 US-09-912-628-11 Sequence 11, Appl
998 29 52.7 43 2 US-09-131-750-24 Sequence 24, Appl
999 29 52.7 44 1 US-08-466-033-73 Sequence 73, Appl
1000 29 52.7 44 1 US-08-444-733-73 Sequence 73, Appl

ALIGNMENTS

RESULT 1
US-08-159-339A-74
Sequence 74, Application US/08159339A
Patent No. 6037135
GENERAL INFORMATION:
APPLICANT: Kubo, Ralph T.
APPLICANT: Grey, Howard M.
APPLICANT: Sette, Alessandro
APPLICANT: Celis, Esben
TITLE OF INVENTION: HLA Binding peptides and Their
NUMBER OF SEQUENCES: 1254
CORRESPONDENCE ADDRESS:
ADDRESS: Townsend and Townsend and Crew LLP
STREET: Two Embarcadero Center, Eighth Floor
CITY: San Francisco
STATE: CA
COUNTRY: USA
ZIP: 94111-3834
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSeq for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/159,339A
FILING DATE: 29-NOV-1993
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/926,666
FILING DATE: 07-AUG-1992
APPLICATION NUMBER: US 08/027,746
FILING DATE: 05-MAR-1993
APPLICATION NUMBER: US 08/103,396
FILING DATE: 06-AUG-1993
ATTORNEY/AGENT INFORMATION:
NAME: Weber, Ellen Lauver
REGISTRATION NUMBER: 32,762
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 576-0200
TELEFAX: (415) 576-0300
TELEX:
INFORMATION FOR SEQ ID NO: 74:

SEQUENCE CHARACTERISTICS:
LENGTH: 9 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-08-159-339A-74

Query Match 100.0%; Score 55; DB 2; Length 9;
Best Local Similarity 100.0%; Pred. No. 4.6e+05;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 VCDKCKFY 9
Db 1 VCDKCKFY 9

RESULT 2
US-08-159-339A-561
Sequence 561, Application US/08159339A
Patent No. 6037135

GENERAL INFORMATION:
APPLICANT: Kubo, Ralph T.
APPLICANT: Grey, Howard M.
APPLICANT: Sette, Alessandro
APPLICANT: Celis, Esben
TITLE OF INVENTION: HLA Binding peptides and Their
NUMBER OF SEQUENCES: 1254
CORRESPONDENCE ADDRESS:
ADDRESS: Townsend and Townsend and Crew LLP
STREET: Two Embarcadero Center, Eighth Floor
CITY: San Francisco
STATE: CA
COUNTRY: USA
ZIP: 94111-3834
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSeq for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/159,339A
FILING DATE: 29-NOV-1993
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/926,666
FILING DATE: 07-AUG-1992
APPLICATION NUMBER: US 08/027,746
FILING DATE: 05-MAR-1993
APPLICATION NUMBER: US 08/103,396
FILING DATE: 06-AUG-1993
ATTORNEY/AGENT INFORMATION:
NAME: Weber, Ellen Lauver
REGISTRATION NUMBER: 32,762
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 576-0200
TELEFAX: (415) 576-0300
TELEX:

INFORMATION FOR SEQ ID NO: 561:
SEQUENCE CHARACTERISTICS:
LENGTH: 10 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-08-159-339A-561

Query Match 100.0%; Score 55; DB 2; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.007;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 VCDKCLKFY 9
|||
Db 2 VCDKCLKFY 10

RESULT 3
US-10-612-818-4
; Sequence 4, Application US/10612818
; Patent No. 6933123
; GENERAL INFORMATION:
; APPLICANT: Impact Diagnostics
; TITLE OF INVENTION: Peptides from the E2, E6 and E7 Proteins of Human Papillomavirus
; TITLE OF INVENTION: 18 for Detecting and/or Diagnosing Cervical and Other Human Papi
; FILE REFERENCE: 3352-2-2
; CURRENT APPLICATION NUMBER: US/10/612,818
; CURRENT FILING DATE: 2003-07-01
; PRIOR APPLICATION NUMBER: US 60/394,172
; PRIOR FILING DATE: 2002-07-02
; PRIOR APPLICATION NUMBER: US 09/828,645
; PRIOR FILING DATE: 2001-04-05
; NUMBER OF SEQ ID NOS: 8
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 4
; LENGTH: 22
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Derived from the E6 early coding region of HPV 16
US-10-612-818-4

Query Match 100.0%; Score 55; DB 2; Length 22;
Best Local Similarity 100.0%; Pred. No. 0.014;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 VCDKCLKFY 9
|||
Db 8 VCDKCLKFY 16

RESULT 4
US-09-701-080C-18
; Sequence 18, Application US/09701080C
; Patent No. 6864054
; GENERAL INFORMATION:
; APPLICANT: INSTITUTE OF MOLECULAR AND CELL BIOLOGY
; TITLE OF INVENTION: POLYPEPTIDES FROM CREB BINDING PROTEIN AND RELATED PROTEIN P300 F
; FILE REFERENCE: N73477C GCW
; CURRENT APPLICATION NUMBER: US/09/701,080C
; CURRENT FILING DATE: 2001-02-27
; PRIOR APPLICATION NUMBER: GB 9811303.8
; PRIOR FILING DATE: 1998-05-26
; PRIOR APPLICATION NUMBER: GB 9900157.0
; PRIOR FILING DATE: 1999-01-05
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 18
; LENGTH: 151
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-09-701-080C-18

Query Match 100.0%; Score 55; DB 2; Length 151;
Best Local Similarity 100.0%; Pred. No. 0.081;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 VCDKCLKFY 9
|||
Db 62 VCDKCLKFY 70

RESULT 5
US-09-980-523A-2
; Sequence 2, Application US/09980523A
; Patent No. 6783763
; GENERAL INFORMATION:
; APPLICANT: CHOPPIN, JEANNINE
; APPLICANT: BOURGAULT VILLADA, ISABELLE
; APPLICANT: GUILLET, JEAN-GERARD
; APPLICANT: CONNAN, FRANCINE
; APPLICANT: FERRIES, ESTELLE

; TITLE OF INVENTION: POLYPEPTOPIC PROTEIN FRAGMENTS OF THE E6 AND E7
; TITLE OF INVENTION: PROTEINS OF HPV, THEIR PRODUCTION AND THEIR USE
; FILE REFERENCE: WO01 AO INS
; CURRENT APPLICATION NUMBER: US/09/980,523A
; CURRENT FILING DATE: 2002-04-29
; PRIOR APPLICATION NUMBER: PCT/FR00/01513
; PRIOR FILING DATE: 2000-05-31
; PRIOR APPLICATION NUMBER: FR 99/07012
; PRIOR FILING DATE: 1999-06-03
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
; LENGTH: 158
; TYPE: PRT
; ORGANISM: Human Papillomavirus
US-09-980-523A-2

Query Match 100.0%; Score 55; DB 2; Length 158;
Best Local Similarity 100.0%; Pred. No. 0.085;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 VCDKCLKFY 9
|||
Db 69 VCDKCLKFY 77

RESULT 6
US-08-316-239B-3
; Sequence 3, Application US/08316239B
; Patent No. 5679509
; GENERAL INFORMATION:
; APPLICANT: Wheeler, Cosette M.
; APPLICANT: Parmenter, Cheryl A.
; TITLE OF INVENTION: Methods and a Diagnostic Aid for
; TITLE OF INVENTION: Distinguishing a Subset of HPV that is Associated with an
; TITLE OF INVENTION: Increased Risk of Developing Cervical Dysplasia and
; NUMBER OF SEQUENCES: 4
; CORRESPONDENCE ADDRESS:
; ADDRESSER: Jagtiani & Associates
; STREET: 6126 Rocky Way Court
; CITY: Centreville
; STATE: VA
; COUNTRY: USA
; ZIP: 20120-3400
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/316,239B
; FILING DATE: 30-SEP-1994
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Jagtiani, Ajay A.
; REGISTRATION NUMBER: 35,205
; REFERENCE/DOCKET NUMBER: UNME-0001
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (703) 817-9453
; TELEFAX: (703) 803-9387
; INFORMATION FOR SEQ ID NO: 3:

SEQUENCE CHARACTERISTICS:
LENGTH: 162 amino acids
TYPE: amino acid
STRANDEDNESS: not relevant
TOPOLOGY: not relevant
MOLECULE TYPE: protein
HYPOTHETICAL: NO
US-08-316-239B-3

Query Match 100.0%; Score 55; DB 1; Length 162;
Best Local Similarity 100.0%; Pred. No. 0.087;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 VCDKCLKFY 9
|||
Db 69 VCDKCLKFY 77

RESULT 7
US-08-316-239B-4
Sequence 4, Application US/08316239B

Patent No. 5679509
GENERAL INFORMATION:
APPLICANT: Wheeler, Colette M.
APPLICANT: Parmenter, Cheryl A.
TITLE OF INVENTION: Methods and a Diagnostic Aid for
TITLE OF INVENTION: Distinguishing a Subset of HPV that is Associated with an
TITLE OF INVENTION: Increased Risk of Developing Cervical Dysplasia and
TITLE OF INVENTION: Cervical Cancer
NUMBER OF SEQUENCES: 4
CORRESPONDENCE ADDRESS:
ADDRESSEE: Jagtiani & Associates
STREET: 6126 Rocky Way Court
CITY: Centreville
STATE: VA
COUNTRY: USA
ZIP: 20120-3400
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/316,239B
FILING DATE: 30-SEP-1994
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Jagtiani, Ajay A.
REGISTRATION NUMBER: 35,205
REFERENCE/DOCKET NUMBER: UNME-0001
TELECOMMUNICATION INFORMATION:
TELEPHONE: (703) 817-9453
TELEFAX: (703) 803-9387
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 162 amino acids
TYPE: amino acid
STRANDEDNESS: not relevant
TOPOLOGY: not relevant
MOLECULE TYPE: protein
HYPOTHETICAL: NO
US-08-316-239B-4

US-08-316-239B-4

Query Match 100.0%; Score 55; DB 1; Length 162;
Best Local Similarity 100.0%; Pred. No. 0.087;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 VCDKCLKFY 9
|||
Db 69 VCDKCLKFY 77

RESULT 8

US-08-860-165-12
Sequence 12, Application US/08860165A
Patent No. 6004557
GENERAL INFORMATION:
APPLICANT: EDWARDS, Stirling John
APPLICANT: COX, John Cooper
APPLICANT: WEBB, Elizabeth Ann
APPLICANT: FRAZER, Ian

TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
FILE REFERENCE: 17227/130
CURRENT APPLICATION NUMBER: US/08/860,165A
CURRENT FILING DATE: 1997-09-22
EARLIER APPLICATION NUMBER: PCT/AU95/00868
EARLIER FILING DATE: 1995-12-20
EARLIER APPLICATION NUMBER: AU PNO157
EARLIER FILING DATE: 1994-12-20
NUMBER OF SEQ ID NOS: 15
SOFTWARE: Patent In Ver. 2.0
SEQ ID NO 12
LENGTH: 172
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Gene Fusion
US-08-860-165-12

Query Match 100.0%; Score 55; DB 2; Length 172;
Best Local Similarity 100.0%; Pred. No. 0.091;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 VCDKCLKFY 9
|||
Db 7 VCDKCLKFY 15

RESULT 9
US-08-860-165-14
Sequence 14, Application US/08860165A

Patent No. 6004557
GENERAL INFORMATION:
APPLICANT: EDWARDS, Stirling John
APPLICANT: COX, John Cooper
APPLICANT: WEBB, Elizabeth Ann
APPLICANT: FRAZER, Ian
TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
FILE REFERENCE: 17227/130
CURRENT APPLICATION NUMBER: US/08/860,165A
CURRENT FILING DATE: 1997-09-22
EARLIER APPLICATION NUMBER: PCT/AU95/00868
EARLIER FILING DATE: 1995-12-20
EARLIER APPLICATION NUMBER: AU PNO157
EARLIER FILING DATE: 1994-12-20
NUMBER OF SEQ ID NOS: 15
SOFTWARE: Patent In Ver. 2.0
SEQ ID NO 14
LENGTH: 172
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Gene Fusion
US-08-860-165-14

Query Match 100.0%; Score 55; DB 2; Length 172;
Best Local Similarity 100.0%; Pred. No. 0.091;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 VCDKCLKFY 9
|||
Db 138 VCDKCLKFY 146

RESULT 10
US-09-359-382-12

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; Sequence 12, Application US/09359382
; Patent No. 6306397
; GENERAL INFORMATION:
; APPLICANT: EDWARDS, Stirling John
; APPLICANT: COX, John Cooper
; APPLICANT: WEBB, Elizabeth Ann
; APPLICANT: FRAZER, Ian
; TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
; FILE REFERENCE: 017227/0148
; CURRENT APPLICATION NUMBER: US/09/359,382
; CURRENT FILING DATE: 1999-07-23
; EARLIER APPLICATION NUMBER: US 08/860,165
; EARLIER FILING DATE: 1997-09-22
; EARLIER APPLICATION NUMBER: PCT/AU95/00868
; EARLIER FILING DATE: 1995-12-20
; EARLIER APPLICATION NUMBER: AU PN0157/94
; EARLIER FILING DATE: 1994-12-20
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 12
; LENGTH: 172
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-09-359-382-12
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Query Match          100.0%; Score 55; DB 2; Length 172;
Best Local Similarity 100.0%; Pred. No. 0.091;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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```
QY 1 VCDKCLKFF 9
    |||||
DB 7 VCDKCLKFF 15
```

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RESULT 11
US-09-359-382-14
; Sequence 14, Application US/09359382
; Patent No. 6306397
; GENERAL INFORMATION:
; APPLICANT: EDWARDS, Stirling John
; APPLICANT: COX, John Cooper
; APPLICANT: WEBB, Elizabeth Ann
; APPLICANT: FRAZER, Ian
; TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
; FILE REFERENCE: 017227/0148
; CURRENT APPLICATION NUMBER: US/09/359,382
; CURRENT FILING DATE: 1999-07-23
; EARLIER APPLICATION NUMBER: US 08/860,165
; EARLIER FILING DATE: 1997-09-22
; EARLIER APPLICATION NUMBER: PCT/AU95/00868
; EARLIER FILING DATE: 1995-12-20
; EARLIER APPLICATION NUMBER: AU PN0157/94
; EARLIER FILING DATE: 1994-12-20
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 14
; LENGTH: 172
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-09-359-382-14
```

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Query Match          100.0%; Score 55; DB 2; Length 172;
Best Local Similarity 100.0%; Pred. No. 0.091;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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```
QY 1 VCDKCLKFF 9
    |||||
DB 138 VCDKCLKFF 146
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RESULT 12
US-09-462-993-1
; Sequence 1, Application US/09462993
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; Patent No. 6884786
; GENERAL INFORMATION:
; APPLICANT: KIENY, Marie-Paule
; APPLICANT: BALLOUL, Jean-Marc
; APPLICANT: BIZOUARN, Nadine
; TITLE OF INVENTION: ANTITUMORAL COMPOSITION BASED ON IMMUNOGENIC
; TITLE OF INVENTION: POLYPEPTIDE WITH MODIFIED CELL LOCATION
; FILE REFERENCE: 017753-122
; CURRENT APPLICATION NUMBER: US/09/462,993
; CURRENT FILING DATE: 2000-04-17
; PRIOR APPLICATION NUMBER: PCT/FR98/01576
; PRIOR FILING DATE: 1998-07-17
; PRIOR APPLICATION NUMBER: FR 97/09152
; PRIOR FILING DATE: 1997-07-18
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: PatentIn Ver. 2.2
; SEQ ID NO 1
; LENGTH: 243
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Derived from
; OTHER INFORMATION: human papillomavirus, strain HPV-16, B6 protein
; OTHER INFORMATION: fused F protein signals, clone B6*TMF.
US-09-462-993-1
```

```
Query Match          100.0%; Score 55; DB 2; Length 243;
Best Local Similarity 100.0%; Pred. No. 0.12;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 VCDKCLKFF 9
    |||||
DB 97 VCDKCLKFF 105
```

```
RESULT 13
US-08-860-165-10
; Sequence 10, Application US/08860165A
; Patent No. 6004557
; GENERAL INFORMATION:
; APPLICANT: EDWARDS, Stirling John
; APPLICANT: COX, John Cooper
; APPLICANT: WEBB, Elizabeth Ann
; APPLICANT: FRAZER, Ian
; TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
; FILE REFERENCE: 17227/130
; CURRENT APPLICATION NUMBER: US/08/860,165A
; CURRENT FILING DATE: 1997-09-22
; EARLIER APPLICATION NUMBER: PCT/AU95/00868
; EARLIER FILING DATE: 1995-12-20
; EARLIER APPLICATION NUMBER: AU PN0157
; EARLIER FILING DATE: 1994-12-20
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 10
; LENGTH: 266
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Gene Fusion
US-08-860-165-10
```

```
Query Match          100.0%; Score 55; DB 2; Length 266;
Best Local Similarity 100.0%; Pred. No. 0.14;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 VCDKCLKFF 9
    |||||
DB 69 VCDKCLKFF 77
```

```
RESULT 14
US-09-359-382-10
```

```
; Sequence 10, Application US/09359382
; Patent No. 6306397
; GENERAL INFORMATION:
; APPLICANT: EDWARDS, Scirling John
; APPLICANT: COX, John Cooper
; APPLICANT: WEBB, Elizabeth Ann
; APPLICANT: FRAZER, Ian
; TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
; FILE REFERENCE: 017227/0148
; CURRENT APPLICATION NUMBER: US/09/359,382
; PRIOR FILING DATE: 1999-07-23
; EARLIER APPLICATION NUMBER: US 08/860,165
; PRIOR FILING DATE: 1997-09-22
; EARLIER APPLICATION NUMBER: PCT/AU95/00868
; EARLIER FILING DATE: 1995-12-20
; EARLIER APPLICATION NUMBER: AU PN0157/94
; EARLIER FILING DATE: 1994-12-20
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 10
; LENGTH: 266
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-09-359-382-10

Query Match      100.0%; Score 55; DB 2; Length 266;
Best Local Similarity 100.0%; Pred. No. 0.14;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 VCDKCLKFY 9
        |||||
Db      69 VCDKCLKFY 77

RESULT 15
US-09-367-309A-1
; Sequence 1, Application US/09367309A
; Patent No. 6428807
; GENERAL INFORMATION:
; APPLICANT: MACFARLAN, RODERICK I.
; APPLICANT: MALIAROS, JIM
; TITLE OF INVENTION: CHELATING IMMUNOSTIMULATING COMPLEXES
; FILE REFERENCE: 017227/0149
; CURRENT APPLICATION NUMBER: US/09/367,309A
; PRIOR FILING DATE: 1999-08-11
; PRIOR APPLICATION NUMBER: PCT/AU98/00080
; PRIOR FILING DATE: 1998-02-13
; PRIOR APPLICATION NUMBER: AU PO 5178
; PRIOR FILING DATE: 1997-02-19
; NUMBER OF SEQ ID NOS: 6
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
; LENGTH: 266
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-09-367-309A-1

Query Match      100.0%; Score 55; DB 2; Length 266;
Best Local Similarity 100.0%; Pred. No. 0.14;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 VCDKCLKFY 9
        |||||
Db      69 VCDKCLKFY 77

RESULT 16
US-09-485-885-4
; Sequence 4, Application US/09485885
; GENERAL INFORMATION:
; APPLICANT: Bruck, Claudine
; APPLICANT: Cabezon Silva, Teresa
; APPLICANT: Lombardo-Bencheikh, Angela
```

```
; APPLICANT: Delisse, Anne-Marie Eva Fernande
; APPLICANT: Gerard, Catherine Marie Ghislaine
; APPLICANT: Lombardo-Bencheikh, Angela
; TITLE OF INVENTION: Vaccine
; FILE REFERENCE: B45107
; CURRENT APPLICATION NUMBER: US/09/485,885
; PRIOR FILING DATE: 2000-02-18
; PRIOR APPLICATION NUMBER: PCT/EP98/05285
; PRIOR FILING DATE: 1998-08-17
; PRIOR APPLICATION NUMBER: GB 9717953.5
; PRIOR FILING DATE: 1997-08-22
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 4
; LENGTH: 273
; TYPE: PRT
; ORGANISM: Homo sapien
US-09-485-885-4

Query Match      100.0%; Score 55; DB 2; Length 273;
Best Local Similarity 100.0%; Pred. No. 0.14;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 VCDKCLKFY 9
        |||||
Db      175 VCDKCLKFY 183

RESULT 17
US-09-485-885-10
; Sequence 10, Application US/09485885
; Patent No. 6342224
; GENERAL INFORMATION:
; APPLICANT: Bruck, Claudine
; APPLICANT: Cabezon Silva, Teresa
; APPLICANT: Delisse, Anne-Marie Eva Fernande
; APPLICANT: Gerard, Catherine Marie Ghislaine
; APPLICANT: Lombardo-Bencheikh, Angela
; TITLE OF INVENTION: Vaccine
; FILE REFERENCE: B45107
; CURRENT APPLICATION NUMBER: US/09/485,885
; PRIOR FILING DATE: 2000-02-18
; PRIOR APPLICATION NUMBER: PCT/EP98/05285
; PRIOR FILING DATE: 1998-08-17
; PRIOR APPLICATION NUMBER: GB 9717953.5
; PRIOR FILING DATE: 1997-08-22
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 10
; LENGTH: 292
; TYPE: PRT
; ORGANISM: Homo sapien
US-09-485-885-10

Query Match      100.0%; Score 55; DB 2; Length 292;
Best Local Similarity 100.0%; Pred. No. 0.15;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 VCDKCLKFY 9
        |||||
Db      194 VCDKCLKFY 202

RESULT 18
US-09-485-885-6
; Sequence 6, Application US/09485885
; Patent No. 6342224
; GENERAL INFORMATION:
; APPLICANT: Bruck, Claudine
; APPLICANT: Cabezon Silva, Teresa
; APPLICANT: Delisse, Anne-Marie Eva Fernande
; APPLICANT: Gerard, Catherine Marie Ghislaine
; APPLICANT: Lombardo-Bencheikh, Angela
```

```

; TITLE OF INVENTION: Vaccine
; FILE REFERENCE: B45107
; CURRENT APPLICATION NUMBER: US/09/485,885
; CURRENT FILING DATE: 2000-02-18
; PRIOR APPLICATION NUMBER: PCT/EP98/05285
; PRIOR FILING DATE: 1998-08-17
; PRIOR APPLICATION NUMBER: GB 9717953.5
; PRIOR FILING DATE: 1997-08-22
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 6
; LENGTH: 371
; TYPE: PRT
; ORGANISM: Homo sapien
US-09-485-885-6

Query Match      100.0%; Score 55; DB 2; Length 371;
Best Local Similarity 100.0%; Pred. No. 0.18;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 VCDKCLKFY 9
DB      175 VCDKCLKFY 183

RESULT 19
US-09-485-885-14
; Sequence 14, Application US/09485885
; Patent No. 6342224
; GENERAL INFORMATION:
; APPLICANT: Bruck, Claudine
; APPLICANT: Cabezon Silva, Teresa
; APPLICANT: Delisse, Anne-Marie Eva Bernande
; APPLICANT: Gerard, Catherine Marie Ghislaine
; APPLICANT: Lombardo-Benchekih, Angela
; TITLE OF INVENTION: Vaccine
; FILE REFERENCE: B45107
; CURRENT APPLICATION NUMBER: US/09/485,885
; CURRENT FILING DATE: 2000-02-18
; PRIOR APPLICATION NUMBER: PCT/EP98/05285
; PRIOR FILING DATE: 1998-08-17
; PRIOR APPLICATION NUMBER: GB 9717953.5
; PRIOR FILING DATE: 1997-08-22
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 14
; LENGTH: 390
; TYPE: PRT
; ORGANISM: Homo sapien
US-09-485-885-14

Query Match      100.0%; Score 55; DB 2; Length 390;
Best Local Similarity 100.0%; Pred. No. 0.19;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 VCDKCLKFY 9
DB      194 VCDKCLKFY 202

RESULT 20
US-08-934-915-162
; Sequence 162, Application US/08934915
; Patent No. 5932412
; GENERAL INFORMATION:
; APPLICANT: DILLNER, JOAKIM
; APPLICANT: CHENG, HMEI-MING
; TITLE OF INVENTION: SYNTHETIC PEPTIDES OF HUMAN
; TITLE OF INVENTION: PAPILLOMAVIRUS 1, 5, 6, 8,
; TITLE OF INVENTION: 11, 16, 18, 31, 33 AND 56,
; TITLE OF INVENTION: USEFUL IN IMMUNOASSAY FOR
; TITLE OF INVENTION: DIAGNOSTIC PURPOSES
```

```

; NUMBER OF SEQUENCES: 193
; CORRESPONDENCE ADDRESS:
; ADDRESS: MASON & ASSOCIATES, P.A.
; STREET: 17757 U.S. HWY. 19 NORTH, SUITE 500
; CITY: CLEARWATER
; STATE: FLORIDA
; COUNTRY: U.S.A.
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: Windows 3.0
; SOFTWARE: Microsoft Word 6.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/934,915
; FILING DATE: 22-SEP-1997
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 07/949,836
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: LOUISE A. Foutch
; REGISTRATION NUMBER: 37,133
; REFERENCE/DOCKET NUMBER: 1946.6
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 813-538-3800
; TELEFAX: 813-538-3820
; TELEX:
; INFORMATION FOR SEQ ID NO: 162:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-08-934-915-162

Query Match      90.9%; Score 50; DB 1; Length 20;
Best Local Similarity 88.9%; Pred. No. 0.084;
Matches 8; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY      1 VCDKCLKFY 9
DB      8 VCDKCLKFY 16

RESULT 21
US-08-159-339A-1170
; Sequence 1170, Application US/08159339A
; Patent No. 6037135
; GENERAL INFORMATION:
; APPLICANT: Kubo, Ralph T.
; APPLICANT: Grey, Howard M.
; APPLICANT: Sette, Alessandro
; APPLICANT: Celis, Basteen
; TITLE OF INVENTION: HLA Binding peptides and Their
; TITLE OF INVENTION: Uses
; NUMBER OF SEQUENCES: 1254
; CORRESPONDENCE ADDRESS:
; ADDRESS: Townsend and Townsend and Crew LLP
; STREET: Two Embarcadero Center, Eighth Floor
; CITY: San Francisco
; STATE: CA
; COUNTRY: USA
; ZIP: 94111-3834
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/159,339A
; FILING DATE: 29-NOV-1993
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
```

APPLICATION NUMBER: US 07/926,666
FILING DATE: 07-AUG-1992
APPLICATION NUMBER: US 08/027,746
FILING DATE: 05-MAR-1993
APPLICATION NUMBER: US 08/103,396
FILING DATE: 06-AUG-1993
ATTORNEY/AGENT INFORMATION:
NAME: Weber, Ellen Lauver
REGISTRATION NUMBER: 32,762
REFERENCE/DOCKET NUMBER: 018623-005030US
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 576-0200
TELEFAX: (415) 576-0300
TELEX:
INFORMATION FOR SEQ ID NO: 1170:
SEQUENCE CHARACTERISTICS:
LENGTH: 11 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-08-159-339A-1170

Query Match 87.3%; Score 48; DB 2; Length 11;
Best Local Similarity 100.0%; Pred. No. 0.1;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 VCDKCLKF 8
Db 4 VCDKCLKF 11

RESULT 22
US-08-159-339A-1169
Sequence 1169, Application US/08159339A
Patent No. 6037135
GENERAL INFORMATION:
APPLICANT: Kubo, Ralph T.
APPLICANT: Grey, Howard M.
APPLICANT: Sette, Alessandro
APPLICANT: Celis, Betteban
TITLE OF INVENTION: HLA Binding peptides and their
TITLE OF INVENTION: Uses
NUMBER OF SEQUENCES: 1254
CORRESPONDENCE ADDRESS:
ADDRESSEE: Townsend and Townsend and Crew LLP
STREET: Two Embarcadero Center, Eighth Floor
CITY: San Francisco
STATE: CA
COUNTRY: USA
ZIP: 94111-3834
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FASTSEQ for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/159,339A
FILING DATE: 29-NOV-1993
CLASSIFICATION: 424
PRIOR APPLICATION NUMBER:
APPLICATION NUMBER: US 07/926,666
FILING DATE: 07-AUG-1992
APPLICATION NUMBER: US 08/027,746
FILING DATE: 05-MAR-1993
APPLICATION NUMBER: US 08/103,396
FILING DATE: 06-AUG-1993
ATTORNEY/AGENT INFORMATION:
NAME: Weber, Ellen Lauver
REGISTRATION NUMBER: 32,762
REFERENCE/DOCKET NUMBER: 018623-005030US
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 576-0200

TELEFAX: (415) 576-0300
TELEX:
INFORMATION FOR SEQ ID NO: 1169:
SEQUENCE CHARACTERISTICS:
LENGTH: 8 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-08-159-339A-1169

Query Match 76.4%; Score 42; DB 2; Length 8;
Best Local Similarity 100.0%; Pred. No. 4.6e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 VCDKCLK 7
Db 2 VCDKCLK 8

RESULT 23
US-09-543-681A-8341
Sequence 8341, Application US/09543681A
Patent No. 6605709
GENERAL INFORMATION:
APPLICANT: GARY BRETON
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PROTEUS MIRABILIS
FILE REFERENCE: 2709.1002-001
CURRENT APPLICATION NUMBER: US/09/543,681A
CURRENT FILING DATE: 2000-04-05
PRIOR APPLICATION NUMBER: US 60/128,706
PRIOR FILING DATE: 1999-04-09
NUMBER OF SEQ ID NOS: 8344
SEQ ID NO 8341
LENGTH: 74
TYPE: PRT
ORGANISM: Proteus mirabilis
US-09-543-681A-8341

Query Match 76.4%; Score 42; DB 2; Length 74;
Best Local Similarity 77.8%; Pred. No. 5.3;
Matches 7; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 VCDKCLKFY 9
Db 40 VCDKCHPFY 48

RESULT 24
US-09-389-956-64
Sequence 64, Application US/09389956
Patent No. 6586579
GENERAL INFORMATION:
APPLICANT: Huang, Shi
TITLE OF INVENTION: PR-Domain Containing Nucleic Acids, Polypeptides,
TITLE OF INVENTION: Antibodies and Methods
FILE REFERENCE: P-LJ 3611
CURRENT APPLICATION NUMBER: US/09/389,956
CURRENT FILING DATE: 1999-09-03
NUMBER OF SEQ ID NOS: 93
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 64
LENGTH: 161
TYPE: PRT
ORGANISM: Homo sapiens
US-09-389-956-64

Query Match 69.1%; Score 38; DB 2; Length 161;
Best Local Similarity 66.7%; Pred. No. 47;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Qy 1 VCDKCLKFY 9

Db 140 VCEKCTKAY 148

RESULT 25
US-09-389-956-2

Sequence 2, Application US/09389956
Patent No. 6586579
GENERAL INFORMATION:
APPLICANT: Huang, Shi
TITLE OF INVENTION: PR-Domain Containing Nucleic Acids, Polypeptides,
FILE REFERENCE: P-LJ 3611
CURRENT APPLICATION NUMBER: US/09/389,956
CURRENT FILING DATE: 1999-09-03
NUMBER OF SEQ ID NOS: 93
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 2
LENGTH: 796
TYPE: PRT
ORGANISM: Homo sapiens
US-09-389-956-2

Query Match 69.1%; Score 38; DB 2; Length 796;
Best Local Similarity 66.7%; Pred. No. 2e+02;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 VCDKCLKFY 9
Db 726 VCEKCTKAY 734

RESULT 26
US-09-949-016-6836

Sequence 6836, Application US/09949016
Patent No. 6812339
GENERAL INFORMATION:
APPLICANT: VENTER, J. Craig et al.
TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
FILE REFERENCE: CLO01307
CURRENT APPLICATION NUMBER: US/09/949,016
CURRENT FILING DATE: 2000-04-14
PRIOR APPLICATION NUMBER: 60/241,755
PRIOR FILING DATE: 2000-10-20
PRIOR APPLICATION NUMBER: 60/237,768
PRIOR FILING DATE: 2000-10-03
PRIOR APPLICATION NUMBER: 60/231,498
PRIOR FILING DATE: 2000-09-08
NUMBER OF SEQ ID NOS: 207012
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 6836
LENGTH: 801
TYPE: PRT
ORGANISM: Human
US-09-949-016-6836

Query Match 69.1%; Score 38; DB 2; Length 801;
Best Local Similarity 66.7%; Pred. No. 2e+02;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 VCDKCLKFY 9
Db 731 VCEKCTKAY 739

RESULT 27
US-09-949-016-11155

Sequence 11155, Application US/09949016
Patent No. 6812339
GENERAL INFORMATION:
APPLICANT: VENTER, J. Craig et al.
TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED

TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
FILE REFERENCE: CLO01307
CURRENT APPLICATION NUMBER: US/09/949,016
CURRENT FILING DATE: 2000-04-14
PRIOR APPLICATION NUMBER: 60/241,755
PRIOR FILING DATE: 2000-10-20
PRIOR APPLICATION NUMBER: 60/237,768
PRIOR FILING DATE: 2000-10-03
PRIOR APPLICATION NUMBER: 60/231,498
PRIOR FILING DATE: 2000-09-08
NUMBER OF SEQ ID NOS: 207012
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 11155
LENGTH: 819
TYPE: PRT
ORGANISM: Human
US-09-949-016-11155

Query Match 69.1%; Score 38; DB 2; Length 819;
Best Local Similarity 66.7%; Pred. No. 2.1e+02;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 VCDKCLKFY 9
Db 749 VCEKCTKAY 757

RESULT 28
US-08-568-459A-12

Sequence 12, Application US/08568459A
Patent No. 5849306
GENERAL INFORMATION:
APPLICANT: Sim, Kim L.
APPLICANT: Chitnis, Chetan
APPLICANT: Miller, Louis H.
APPLICANT: Peterson, David S.
APPLICANT: Su, Xin-zhuan
APPLICANT: Wellens, Thomas E.
TITLE OF INVENTION: BINDING DOMAINS FROM PLASMODIUM VIVAX
TITLE OF INVENTION: AND PLASMODIUM FALCIPARUM ERYTHROCYTE BINDING PROTEINS
NUMBER OF SEQUENCES: 37
CORRESPONDENCE ADDRESS:
ADDRESSEE: Knobbe Martens Olson & Bear
STREET: 620 Newport Center Drive 16th Floor
CITY: Newport Beach
STATE: California
COUNTRY: US
ZIP: 92660
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/568,459A
FILING DATE: 07-DEC-1995
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Israelson, Ned
REGISTRATION NUMBER: 29,655
REFERENCE/DOCKET NUMBER: NIH121.001CP1
TELECOMMUNICATION INFORMATION:
TELEPHONE: (619) 235-8550
TELEFAX: (619) 235-0176
INFORMATION FOR SEQ ID NO: 12:
SEQUENCE CHARACTERISTICS:
LENGTH: 2710 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
HYPOTHETICAL: NO
ORIGINAL SOURCE:

ORGANISM: Plasmodium falciparum
US-08-568-459A-12

Query Match 69.1%; Score 38; DB 1; Length 2710;
Best Local Similarity 85.7%; Pred. No. 6.1e+02;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2 CDCKLKF 8
DB 2222 CDCKLKF 2228

RESULT 29
US-08-487-826B-12

Sequence 12, Application US/08487826B
Patent No. 5993827
GENERAL INFORMATION:
APPLICANT: Sim, Kim L.
APPLICANT: Chitnis, Chetan
APPLICANT: Miller, Louis H.
APPLICANT: Peterson, David S.
APPLICANT: Su, Xin-zhaun
APPLICANT: Wellems, Thomas E.
TITLE OF INVENTION: BINDING DOMAINS FROM PLASMODIUM VIVAX
AND PLASMODIUM FALCIPARUM ERYTHROCYTE BINDING PROTEINS
NUMBER OF SEQUENCES: 45
CORRESPONDENCE ADDRESS:
ADDRESSEE: Knobbe Martens Olson & Bear
STREET: 620 Newport Center Drive 16th Floor
CITY: Newport Beach
STATE: California
COUNTRY: US
ZIP: 92660
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/487,826B
FILING DATE: 10-SEP-1993
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Israelson, Ned
REGISTRATION NUMBER: 29,655
REFERENCE/DOCKET NUMBER: NIH121.001CP1
TELECOMMUNICATION INFORMATION:
TELEPHONE: (619) 235-8550
TELEFAX: (619) 235-0176
INFORMATION FOR SEQ ID NO: 12:
SEQUENCE CHARACTERISTICS:
LENGTH: 2710 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
HYPOTHETICAL: NO
ORIGINAL SOURCE:
ORGANISM: Plasmodium falciparum
US-08-487-826B-12

Query Match 69.1%; Score 38; DB 1; Length 2710;
Best Local Similarity 85.7%; Pred. No. 6.1e+02;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2 CDCKLKF 8
DB 2222 CDCKLKF 2228

RESULT 30
US-09-210-288-12

Sequence 12, Application US/09210288

Patent No. 6392026
GENERAL INFORMATION:

APPLICANT: Sim, Kim L.
APPLICANT: Chitnis, Chetan
APPLICANT: Miller, Louis H.
APPLICANT: Peterson, David S.
APPLICANT: Su, Xin-zhaun
APPLICANT: Wellems, Thomas E.
TITLE OF INVENTION: BINDING DOMAINS FROM PLASMODIUM VIVAX
AND PLASMODIUM FALCIPARUM ERYTHROCYTE BINDING PROTEINS
NUMBER OF SEQUENCES: 37
CORRESPONDENCE ADDRESS:
ADDRESSEE: Knobbe Martens Olson & Bear
STREET: 620 Newport Center Drive 16th Floor
CITY: Newport Beach
STATE: California
COUNTRY: US
ZIP: 92660
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/210,288
FILING DATE:
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: Fuller, Michael
REGISTRATION NUMBER: 36,516
REFERENCE/DOCKET NUMBER: NIH121.1FWDV1
TELECOMMUNICATION INFORMATION:
TELEPHONE: (619) 235-8550
TELEFAX: (619) 235-0176
INFORMATION FOR SEQ ID NO: 12:
SEQUENCE CHARACTERISTICS:
LENGTH: 2710 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
HYPOTHETICAL: NO
ORIGINAL SOURCE:
ORGANISM: Plasmodium falciparum
US-09-210-288-12

Query Match 69.1%; Score 38; DB 2; Length 2710;
Best Local Similarity 85.7%; Pred. No. 6.1e+02;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2 CDCKLKF 8
DB 2222 CDCKLKF 2228

RESULT 31
US-10-153-273-12

Sequence 12, Application US/10153273
Patent No. 6962987
GENERAL INFORMATION:
APPLICANT: Sim, Kim L.
APPLICANT: Chitnis, Chetan
APPLICANT: Miller, Louis H.
APPLICANT: Peterson, David S.
APPLICANT: Su, Xin-zhaun
APPLICANT: Wellems, Thomas E.
TITLE OF INVENTION: BINDING DOMAINS FROM PLASMODIUM VIVAX
AND PLASMODIUM FALCIPARUM ERYTHROCYTE BINDING PROTEINS
NUMBER OF SEQUENCES: 37
CORRESPONDENCE ADDRESS:
ADDRESSEE: Knobbe Martens Olson & Bear
STREET: 620 Newport Center Drive 16th Floor
CITY: Newport Beach

STATE: California
COUNTRY: US
ZIP: 92660
COMPUTER READABLE FORM:
MEDIUM TYPE: floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/153,273
FILING DATE: 21-May-2002
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/09/210,288
FILING DATE: <Unknown>
ATTORNEY/AGENT INFORMATION:
NAME: Puller, Michael
REGISTRATION NUMBER: 36,516
REFERENCE/DOCKET NUMBER: NIH121.1FWDV1
TELECOMMUNICATION INFORMATION:
TELEPHONE: (619) 235-8550
TELEFAX: (619) 235-0176
INFORMATION FOR SEQ ID NO: 12:
SEQUENCE CHARACTERISTICS:
LENGTH: 2710 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
HYPOTHEICAL: NO
ORIGINAL SOURCE:
ORGANISM: Plasmodium falciparum
SEQUENCE DESCRIPTION: SEQ ID NO: 12:
US-10-153-273-12

Query Match 69.1%; Score 38; DB 2; Length 2710;
Best Local Similarity 85.7%; Pred. No. 6.1e+02;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2 CDKCLKF 8
DB 2222 CDKCLKF 2228

RESULT 32
US-08-487-826B-14
Sequence 14, Application US/08487826B
Patent No. 593827
GENERAL INFORMATION:
APPLICANT: Sim, Kim L.
APPLICANT: Chitnis, Chetan
APPLICANT: Miller, Louis H.
APPLICANT: Peterson, David S.
APPLICANT: Su, Xin-zhaun
APPLICANT: Wellens, Thomas B.
TITLE OF INVENTION: BINDING DOMAINS FROM PLASMODIUM VIVAX
TITLE OF INVENTION: AND PLASMODIUM FALCIPARUM ERYTHROCYTE BINDING PROTEINS
NUMBER OF SEQUENCES: 45
CORRESPONDENCE ADDRESS:
ADDRESSER: Knobbe Martens Olson & Bear
STREET: 620 Newport Center Drive 16th Floor
CITY: Newport Beach
STATE: California
COUNTRY: US
ZIP: 92660
COMPUTER READABLE FORM:
MEDIUM TYPE: floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/487,826B
FILING DATE: 10-SEP-1993

CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Israelien, Ned
REGISTRATION NUMBER: 29,655
REFERENCE/DOCKET NUMBER: NIH121.001CP1
TELECOMMUNICATION INFORMATION:
TELEPHONE: (619) 235-0176
TELEFAX: (619) 235-0176
INFORMATION FOR SEQ ID NO: 14:
SEQUENCE CHARACTERISTICS:
LENGTH: 3060 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-487-826B-14

Query Match 69.1%; Score 38; DB 1; Length 3060;
Best Local Similarity 85.7%; Pred. No. 6.8e+02;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2 CDKCLKF 8
DB 2220 CDKCLKF 2226

RESULT 33
US-08-159-339A-136
Sequence 136, Application US/08159339A
Patent No. 6037135
GENERAL INFORMATION:
APPLICANT: Kudo, Ralph T.
APPLICANT: Grey, Howard M.
APPLICANT: Sette, Alessandro
APPLICANT: Celis, Betteban
TITLE OF INVENTION: HLA Binding peptides and Their
TITLE OF INVENTION: Uses
NUMBER OF SEQUENCES: 1254
CORRESPONDENCE ADDRESS:
ADDRESSER: Townsend and Townsend and Crew LLP
STREET: Two Embarcadero Center, Eighth Floor
CITY: San Francisco
STATE: CA
COUNTRY: USA
ZIP: 94111-3834
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSeq for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/159,339A
FILING DATE: 29-NOV-1993
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/926,666
FILING DATE: 07-AUG-1992
APPLICATION NUMBER: US 08/027,746
FILING DATE: 05-MAR-1993
APPLICATION NUMBER: US 08/103,396
FILING DATE: 06-AUG-1993
ATTORNEY/AGENT INFORMATION:
NAME: Weber, Ellen Lauver
REGISTRATION NUMBER: 32,762
REFERENCE/DOCKET NUMBER: 018623-005030US
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 576-0200
TELEFAX: (415) 576-0300
TELEX:
INFORMATION FOR SEQ ID NO: 136:
SEQUENCE CHARACTERISTICS:
LENGTH: 9 amino acids
TYPE: amino acid

STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-08-152-019A-31

Query Match 67.3%; Score 37; DB 2; Length 9;
Best Local Similarity 77.8%; Pred. No. 4.6e+05;
Matches 7; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 VCDKCLKFY 9
Db 1 VADKALKFY 9

RESULT 34
US-08-152-019A-31
Sequence 31, Application US/08152019A
Patent No. 5565331
GENERAL INFORMATION:
APPLICANT: Tessier-Lavigne, Marc
APPLICANT: Serafini, Tito
APPLICANT: Kennedy, Timothy
APPLICANT: Placzek, Marysia
APPLICANT: Jessell, Thomas
APPLICANT: Dodd, Jane
TITLE OF INVENTION: NEURAL AXON OUTGROWTH MODULATORS
NUMBER OF SEQUENCES: 46
CORRESPONDENCE ADDRESSES:
ADDRESSEE: FLEHR, HOHBACH, TEST, ALBRITTON & HERBERT
STREET: 4 Embarcadero Center, Suite 3400
CITY: San Francisco
STATE: California
COUNTRY: USA
ZIP: 94111-4187
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/152,019A
FILING DATE: 12-NOV-1993
CLASSIFICATION: 514
ATTORNEY/AGENT INFORMATION:
NAME: Osman, Richard Aron
REGISTRATION NUMBER: 36,627
REFERENCE/DOCKET NUMBER: A-59012/RAO
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 781-1989
TELEFAX: (415) 398-3249
TELEX: 910 277299 FHT UR
INFORMATION FOR SEQ ID NO: 31:
SEQUENCE CHARACTERISTICS:
LENGTH: 219 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-08-152-019A-31

Query Match 67.3%; Score 37; DB 1; Length 219;
Best Local Similarity 62.5%; Pred. No. 91;
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 2 CDKCLKFY 9
Db 31 CEKCLPF 38

RESULT 35
US-08-152-019A-32
Sequence 32, Application US/08152019A
Patent No. 5565331

GENERAL INFORMATION:
APPLICANT: Tessier-Lavigne, Marc
APPLICANT: Serafini, Tito
APPLICANT: Kennedy, Timothy
APPLICANT: Placzek, Marysia
APPLICANT: Jessell, Thomas
APPLICANT: Dodd, Jane
TITLE OF INVENTION: NEURAL AXON OUTGROWTH MODULATORS
NUMBER OF SEQUENCES: 46
CORRESPONDENCE ADDRESSES:
ADDRESSEE: FLEHR, HOHBACH, TEST, ALBRITTON & HERBERT
STREET: 4 Embarcadero Center, Suite 3400
CITY: San Francisco
STATE: California
COUNTRY: USA
ZIP: 94111-4187
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/152,019A
FILING DATE: 12-NOV-1993
CLASSIFICATION: 514
ATTORNEY/AGENT INFORMATION:
NAME: Osman, Richard Aron
REGISTRATION NUMBER: 36,627
REFERENCE/DOCKET NUMBER: A-59012/RAO
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 781-1989
TELEFAX: (415) 398-3249
TELEX: 910 277299 FHT UR
INFORMATION FOR SEQ ID NO: 32:
SEQUENCE CHARACTERISTICS:
LENGTH: 219 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-08-152-019A-32

Query Match 67.3%; Score 37; DB 1; Length 219;
Best Local Similarity 62.5%; Pred. No. 91;
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 2 CDKCLKFY 9
Db 31 CEKCLPF 38

RESULT 36
US-08-460-309-18
Sequence 18, Application US/08460309
Patent No. 5837496
GENERAL INFORMATION:
APPLICANT: Engrvall, Eva
APPLICANT: Leivo, Ilmo
TITLE OF INVENTION: Nucleic Acids Encoding Merosin, Merosin
NUMBER OF SEQUENCES: 23
CORRESPONDENCE ADDRESSES:
ADDRESSEE: Campbell and Flores
STREET: 4370 La Jolla Village Drive, Suite 700
CITY: San Diego
STATE: California
COUNTRY: USA
ZIP: 92122
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25

CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/460,309
FILING DATE:
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/125,077
FILING DATE: 22-SEP-1993
APPLICATION NUMBER: US PCT/US 94/10730
FILING DATE: 21-SEP-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/472,319
FILING DATE: 30-JAN-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/919,951
FILING DATE: 27-JUL-1992
ATTORNEY/AGENT INFORMATION:
NAME: Campbell, Cathryn A.
REGISTRATION NUMBER: 31,815
REFERENCE/DOCKET NUMBER: P-LA 9721
TELEPHONE: (619) 535-9001
TELEFAX: (619) 535-8949
INFORMATION FOR SEQ ID NO: 18:
SEQUENCE CHARACTERISTICS:
LENGTH: 219 amino acids
TYPE: amino acid
TOPOLOGY: linear
US-08-460-309-18

Query Match 67.3%; Score 37; DB 1; Length 219;
Best Local Similarity 62.5%; Pred. No. 91;
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 2 CDKCLKFY 9
DB 31 CEKCLPF 38

RESULT 37
US-08-125-077-18
Sequence 18, Application US/08125077
Patent No. 5872231
Patent No. 5872231 5840863
GENERAL INFORMATION:
APPLICANT: Enqvall, Eva
TITLE OF INVENTION: Nucleic Acids Encoding Merosin, Merosin
TITLE OF INVENTION: Fragments and Uses Thereof
NUMBER OF SEQUENCES: 23
CORRESPONDENCE ADDRESS:
ADDRESS: Campbell and Flores
STREET: 4370 La Jolla Village Drive, Suite 700
CITY: San Diego
STATE: California
COUNTRY: USA
ZIP: 92122
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/125,077
FILING DATE: 22-SEP-1993
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US PCT/US 94/10730
FILING DATE: 21-SEP-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/472,319
FILING DATE: 30-JAN-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/919,951

FILING DATE: 27-JUL-1992
ATTORNEY/AGENT INFORMATION:
NAME: Campbell, Cathryn A.
REGISTRATION NUMBER: 31,815
REFERENCE/DOCKET NUMBER: P-LA 9721
TELEPHONE: (619) 535-9001
TELEFAX: (619) 535-8949
INFORMATION FOR SEQ ID NO: 18:
SEQUENCE CHARACTERISTICS:
LENGTH: 219 amino acids
TYPE: amino acid
TOPOLOGY: linear
US-08-125-077-18

Query Match 67.3%; Score 37; DB 1; Length 219;
Best Local Similarity 62.5%; Pred. No. 91;
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 2 CDKCLKFY 9
DB 31 CEKCLPF 38

RESULT 38
US-09-562-702A-32
Sequence 32, Application US/09562702A
Patent No. 6632790
GENERAL INFORMATION:
APPLICANT: Yurchenco, Peter
TITLE OF INVENTION: Laminin 2 and Methods for Its Use
FILE REFERENCE: 99-274-B
CURRENT APPLICATION NUMBER: US/09/562,702A
PRIOR FILING DATE: 2000-04-28
PRIOR APPLICATION NUMBER: 60/155,945
PRIOR FILING DATE: 1999-09-24
PRIOR APPLICATION NUMBER: 60/143,289
PRIOR FILING DATE: 1999-07-12
PRIOR APPLICATION NUMBER: 60/139,198
PRIOR FILING DATE: 1999-06-15
PRIOR APPLICATION NUMBER: 60/131,720
PRIOR FILING DATE: 1999-04-30
NUMBER OF SEQ ID NOS: 32
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 32
LENGTH: 1572
TYPE: PRT
ORGANISM: Mus musculus
US-09-562-702A-32

Query Match 67.3%; Score 37; DB 2; Length 1572;
Best Local Similarity 62.5%; Pred. No. 5,4e+02;
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 2 CDKCLKFY 9
DB 281 CEKCLPF 288

RESULT 39
US-09-561-818A-28
Sequence 28, Application US/09561818A
Patent No. 6638907
GENERAL INFORMATION:
APPLICANT: Korstenaar, Jarrko
TITLE OF INVENTION: Laminin 8 and Methods for Its Use
FILE REFERENCE: 99,274-D
CURRENT APPLICATION NUMBER: US/09/561,818A
PRIOR FILING DATE: 2000-04-28
NUMBER OF SEQ ID NOS: 28
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 28

LENGTH: 1572
TYPE: PRT
ORGANISM: Mus musculus
US-09-561-818A-28

Query Match 67.3%; Score 37; DB 2; Length 1572;
Best Local Similarity 62.5%; Pred. No. 5.4e+02;
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 2 CDKCKFY 9
|:|:|:|:
Db 281 CEKCLPFF 288

RESULT 40
US-10-037-182-20
Sequence 20, Application US/10037182
Patent No. 6933273
GENERAL INFORMATION:
APPLICANT: Trygvason, Karl
APPLICANT: Doi, Masayuki
APPLICANT: Thyboll, Jill
TITLE OF INVENTION: Recombinant Laminin 10
FILE REFERENCE: 99-274-F
CURRENT APPLICATION NUMBER: US/10/037,182
CURRENT FILING DATE: 2001-12-21
PRIOR APPLICATION NUMBER: 60/257,449
PRIOR FILING DATE: 2000-12-21
PRIOR APPLICATION NUMBER: 60/279,282
PRIOR FILING DATE: 2001-03-28
NUMBER OF SEQ ID NOS: 36
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 20
LENGTH: 1572
TYPE: PRT
ORGANISM: Mus musculus
US-10-037-182-20

Query Match 67.3%; Score 37; DB 2; Length 1572;
Best Local Similarity 62.5%; Pred. No. 5.4e+02;
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 2 CDKCKFY 9
|:|:|:|:
Db 281 CEKCLPFF 288

RESULT 41
US-09-562-702A-24
Sequence 24, Application US/09562702A
Patent No. 6632790
GENERAL INFORMATION:
APPLICANT: Yurchenco, Peter
TITLE OF INVENTION: Laminin 2 and Methods for Its Use
FILE REFERENCE: 99-274-B
CURRENT APPLICATION NUMBER: US/09/562,702A
CURRENT FILING DATE: 2000-04-28
PRIOR APPLICATION NUMBER: 60/155,945
PRIOR FILING DATE: 1999-09-24
PRIOR APPLICATION NUMBER: 60/143,289
PRIOR FILING DATE: 1999-07-12
PRIOR APPLICATION NUMBER: 60/139,198
PRIOR FILING DATE: 1999-06-15
PRIOR APPLICATION NUMBER: 60/131,720
PRIOR FILING DATE: 1999-04-30
NUMBER OF SEQ ID NOS: 32
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 24
LENGTH: 1576
TYPE: PRT
ORGANISM: Homo sapiens
US-09-562-702A-24

Query Match 67.3%; Score 37; DB 2; Length 1576;
Best Local Similarity 62.5%; Pred. No. 5.4e+02;
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 2 CDKCKFY 9
|:|:|:|:
Db 283 CEKCLPFF 290

RESULT 42
US-09-561-818A-24
Sequence 24, Application US/09561818A
Patent No. 6638907
GENERAL INFORMATION:
APPLICANT: Kortsemaa, Jariko
APPLICANT: Trygvason, Karl
TITLE OF INVENTION: Laminin 8 and Methods for Its Use
FILE REFERENCE: 99,274-D
CURRENT APPLICATION NUMBER: US/09/561,818A
CURRENT FILING DATE: 2000-04-28
NUMBER OF SEQ ID NOS: 28
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 24
LENGTH: 1576
TYPE: PRT
ORGANISM: Homo sapiens
US-09-561-818A-24

Query Match 67.3%; Score 37; DB 2; Length 1576;
Best Local Similarity 62.5%; Pred. No. 5.4e+02;
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 2 CDKCKFY 9
|:|:|:|:
Db 283 CEKCLPFF 290

RESULT 43
US-10-037-182-16
Sequence 16, Application US/10037182
Patent No. 6933273
GENERAL INFORMATION:
APPLICANT: Trygvason, Karl
APPLICANT: Doi, Masayuki
APPLICANT: Thyboll, Jill
TITLE OF INVENTION: Recombinant Laminin 10
FILE REFERENCE: 99-274-F
CURRENT APPLICATION NUMBER: US/10/037,182
CURRENT FILING DATE: 2001-12-21
PRIOR APPLICATION NUMBER: 60/257,449
PRIOR FILING DATE: 2000-12-21
PRIOR APPLICATION NUMBER: 60/279,282
PRIOR FILING DATE: 2001-03-28
NUMBER OF SEQ ID NOS: 36
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 16
LENGTH: 1576
TYPE: PRT
ORGANISM: Homo sapiens
US-10-037-182-16

Query Match 67.3%; Score 37; DB 2; Length 1576;
Best Local Similarity 62.5%; Pred. No. 5.4e+02;
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 2 CDKCKFY 9
|:|:~|:~|:
Db 283 CEKCLPFF 290

RESULT 44
US-09-562-702A-28
Sequence 28, Application US/09562702A

```
; Patent No. 6632790
; GENERAL INFORMATION:
; APPLICANT: Yurchenco, Peter
; TITLE OF INVENTION: Laminin 2 and Methods for Its Use
; FILE REFERENCE: 99-274-B
; CURRENT FILING DATE: 2000-04-28
; PRIOR APPLICATION NUMBER: 60/155,945
; PRIOR FILING DATE: 1999-09-24
; PRIOR APPLICATION NUMBER: 60/143,289
; PRIOR FILING DATE: 1999-07-12
; PRIOR APPLICATION NUMBER: 60/139,198
; PRIOR FILING DATE: 1999-06-15
; PRIOR APPLICATION NUMBER: 60/131,720
; PRIOR FILING DATE: 1999-04-30
; NUMBER OF SEQ ID NOS: 32
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 28
; LENGTH: 1584
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-562-702A-28
```

```
Query Match      67.3%; Score 37; DB 2; Length 1584;
Best Local Similarity 62.5%; Pred. No. 5.5e+02;
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;
```

```
Qy      2 CDCKLKFY 9
Db      283 CEKCLPFF 290
```

```
RESULT 45
US-09-562-702A-30
; Sequence 30, Application US/09562702A
; Patent No. 6632790
; GENERAL INFORMATION:
; APPLICANT: Yurchenco, Peter
; TITLE OF INVENTION: Laminin 2 and Methods for Its Use
; FILE REFERENCE: 99-274-B
; CURRENT APPLICATION NUMBER: US/09/562,702A
; CURRENT FILING DATE: 2000-04-28
; PRIOR APPLICATION NUMBER: 60/155,945
; PRIOR FILING DATE: 1999-09-24
; PRIOR APPLICATION NUMBER: 60/143,289
; PRIOR FILING DATE: 1999-07-12
; PRIOR APPLICATION NUMBER: 60/139,198
; PRIOR FILING DATE: 1999-06-15
; PRIOR APPLICATION NUMBER: 60/131,720
; PRIOR FILING DATE: 1999-04-30
; NUMBER OF SEQ ID NOS: 32
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 30
; LENGTH: 1605
; TYPE: PRT
; ORGANISM: Mus musculus
US-09-562-702A-30
```

```
Query Match      67.3%; Score 37; DB 2; Length 1605;
Best Local Similarity 62.5%; Pred. No. 5.5e+02;
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;
```

```
Qy      2 CDCKLKFY 9
Db      314 CEKCLPFF 321
```

```
RESULT 46
US-09-561-818A-26
; Sequence 26, Application US/09561818A
; Patent No. 6638907
; GENERAL INFORMATION:
; APPLICANT: Kortsemaa, Jariko
```

```
; APPLICANT: Trygsvaen, Karl
; TITLE OF INVENTION: Laminin 8 and Methods for Its Use
; FILE REFERENCE: 99/274-D
; CURRENT APPLICATION NUMBER: US/09/561,818A
; CURRENT FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 26
; LENGTH: 1605
; TYPE: PRT
; ORGANISM: Mus musculus
US-09-561-818A-26
```

```
Query Match      67.3%; Score 37; DB 2; Length 1605;
Best Local Similarity 62.5%; Pred. No. 5.5e+02;
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;
```

```
Qy      2 CDCKLKFY 9
Db      314 CEKCLPFF 321
```

```
RESULT 47
US-10-037-182-18
; Sequence 18, Application US/10037182
; Patent No. 6933273
; GENERAL INFORMATION:
; APPLICANT: Trygsvaen, Karl
; APPLICANT: Doi, Masayuki
; APPLICANT: Thyboll, Jili
; TITLE OF INVENTION: Recombinant Laminin 10
; FILE REFERENCE: 99-274-F
; CURRENT APPLICATION NUMBER: US/10/037,182
; CURRENT FILING DATE: 2001-12-21
; PRIOR APPLICATION NUMBER: 60/257,449
; PRIOR FILING DATE: 2000-12-21
; PRIOR APPLICATION NUMBER: 60/279,282
; PRIOR FILING DATE: 2001-03-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 18
; LENGTH: 1605
; TYPE: PRT
; ORGANISM: Mus musculus
US-10-037-182-18
```

```
Query Match      67.3%; Score 37; DB 2; Length 1605;
Best Local Similarity 62.5%; Pred. No. 5.5e+02;
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;
```

```
Qy      2 CDCKLKFY 9
Db      314 CEKCLPFF 321
```

```
RESULT 48
US-09-562-702A-22
; Sequence 22, Application US/09562702A
; Patent No. 6632790
; GENERAL INFORMATION:
; APPLICANT: Yurchenco, Peter
; TITLE OF INVENTION: Laminin 2 and Methods for Its Use
; FILE REFERENCE: 99-274-B
; CURRENT APPLICATION NUMBER: US/09/562,702A
; CURRENT FILING DATE: 2000-04-28
; PRIOR APPLICATION NUMBER: 60/155,945
; PRIOR FILING DATE: 1999-09-24
; PRIOR APPLICATION NUMBER: 60/143,289
; PRIOR FILING DATE: 1999-07-12
; PRIOR APPLICATION NUMBER: 60/139,198
; PRIOR FILING DATE: 1999-06-15
; PRIOR APPLICATION NUMBER: 60/131,720
; PRIOR FILING DATE: 1999-04-30
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NUMBER OF SEQ ID NOS: 32
SOFTWARE: Patentn Ver. 2.0
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LENGTH: 1609
TYPE: PRT
ORGANISM: Homo sapiens
US-09-562-702A-22

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Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

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RESULT 49
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Patent No. 6638907
GENERAL INFORMATION:
APPLICANT: Koreesmaa, Jariko
APPLICANT: Trygvasson, Karl
TITLE OF INVENTION: Laminin 8 and Methods For Its Use
FILE REFERENCE: 99,274-D
CURRENT APPLICATION NUMBER: US/09/561,818A
CURRENT FILING DATE: 2000-04-28
NUMBER OF SEQ ID NOS: 28
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Sequence 900, Application US/09538092
Patent No. 6753314
GENERAL INFORMATION:
APPLICANT: Gluc, Loic
APPLICANT: Mansfield, Traci A.
TITLE OF INVENTION: Protein-Protein Complexes and Method of Using Same
FILE REFERENCE: 15966-542
CURRENT APPLICATION NUMBER: US/09/538,092
CURRENT FILING DATE: 2000-03-29
PRIOR APPLICATION NUMBER: 60/127,352
PRIOR FILING DATE: 1999-04-01
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PRIOR FILING DATE: 2000-02-01
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SUMMARIES

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166	36	65.5	2548	5	US-10-732-923-15009	Sequence 15009, A	239	35	63.6	2414	5	US-10-473-127-644	Sequence 644, App
167	35	63.6	84	4	US-10-424-559-215500	Sequence 215500, A	240	35	63.6	2414	5	US-10-473-127-646	Sequence 646, App
168	35	63.6	84	4	US-10-425-115-205336	Sequence 205336, A	241	35	63.6	2414	5	US-10-732-923-18449	Sequence 18449, A
169	35	63.6	85	4	US-10-424-559-217954	Sequence 217954, A	242	35	63.6	2414	5	US-10-756-149-5732	Sequence 5732, Ap
170	35	63.6	96	4	US-10-425-115-187724	Sequence 187724, A	243	35	63.6	2414	5	US-10-732-923-8884	Sequence 8884, Ap
171	35	63.6	104	4	US-10-424-559-150544	Sequence 150544, A	244	35	63.6	2456	5	US-10-732-923-8884	Sequence 7, Appl1
172	35	63.6	124	4	US-10-425-115-197120	Sequence 197120, A	245	35	63.6	2476	3	US-09-824-574-7	Sequence 7, Appl1
173	35	63.6	153	6	US-11-021-949-20	Sequence 20, Appl1	246	35	63.6	2476	5	US-10-732-923-8136	Sequence 8136, Ap

247	35	63.6	2492	4	US-10-697-5526-2	Sequence 2, Appli	320	34	61.8	508	4	US-10-424-599-239371	Sequence 239371,
248	35	63.6	2492	5	US-10-732-923-8882	Sequence 8882, Ap	321	34	61.8	515	5	US-10-741-600-982	Sequence 982, App
249	35	63.6	2492	5	US-10-732-923-8883	Sequence 8883, Ap	322	34	61.8	515	5	US-10-936-626-133	Sequence 133, App
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251	35	63.6	3635	3	US-09-845-583-2	Sequence 2, Appli	324	34	61.8	515	3	US-10-509-622-2	Sequence 2, Appli
252	35	63.6	3635	4	US-10-037-182-4	Sequence 47, Appl	325	34	61.8	527	5	US-09-925-298-703	Sequence 703, App
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254	34.5	62.7	3070	3	US-09-961-403-7	Sequence 698, App	327	34	61.8	531	6	US-11-097-143-37594	Sequence 37594, A
255	34.5	62.7	3122	5	US-10-723-860-698	Sequence 50773, A	328	34	61.8	536	4	US-10-221-625-78	Sequence 78, Appl
256	34.5	62.7	3150	5	US-10-450-763-50773	Sequence 193489, A	329	34	61.8	536	4	US-10-425-115-311013	Sequence 311013, Ap
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258	34	61.8	58	4	US-10-424-599-211940	Sequence 2584340, A	331	34	61.8	552	4	US-10-408-765A-2368	Sequence 81, Appl
259	34	61.8	70	4	US-10-424-599-258434	Sequence 5113, Ap	332	34	61.8	554	4	US-10-221-625-81	Sequence 81, Appl
260	34	61.8	70	4	US-10-724-972A-5113	Sequence 64216, A	333	34	61.8	562	5	US-10-878-722-245	Sequence 245, App
261	34	61.8	97	4	US-10-282-122A-63538	Sequence 64216, A	334	34	61.8	564	3	US-09-999-248-14	Sequence 14, Appl
262	34	61.8	97	4	US-10-282-122A-64216	Sequence 64216, A	335	34	61.8	564	3	US-09-904-456-745	Sequence 145, App
263	34	61.8	97	4	US-10-424-599-150084	Sequence 251917, A	336	34	61.8	564	3	US-10-157-031-176	Sequence 176, App
264	34	61.8	100	4	US-10-424-599-251917	Sequence 240756, A	337	34	61.8	564	4	US-10-318-906A-2	Sequence 2, Appli
265	34	61.8	111	4	US-10-424-599-240756	Sequence 337851, A	338	34	61.8	564	4	US-10-318-906A-2	Sequence 2, Appli
266	34	61.8	120	4	US-10-425-115-337851	Sequence 28513, A	339	34	61.8	564	4	US-10-618-839-2	Sequence 14, Appl
267	34	61.8	131	4	US-10-029-386-28513	Sequence 192965, A	340	34	61.8	564	5	US-10-850-060-14	Sequence 14, Appl
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269	34	61.8	134	4	US-10-424-599-198743	Sequence 198743, A	342	34	61.8	564	5	US-10-741-600-981	Sequence 130, App
270	34	61.8	147	4	US-10-106-698-6513	Sequence 6513, Ap	343	34	61.8	564	5	US-10-936-626-130	Sequence 130, App
271	34	61.8	150	6	US-11-021-949-26	Sequence 26, Appl	344	34	61.8	564	5	US-10-936-626-131	Sequence 131, App
272	34	61.8	160	6	US-11-021-949-32	Sequence 32, Appl	345	34	61.8	564	5	US-10-938-061-131	Sequence 131, App
273	34	61.8	175	4	US-10-264-049-2942	Sequence 2942, Ap	346	34	61.8	564	5	US-10-938-061-131	Sequence 131, App
274	34	61.8	183	4	US-10-425-115-352825	Sequence 352825, A	347	34	61.8	564	5	US-10-850-103-14	Sequence 14, Appl
275	34	61.8	187	4	US-10-424-599-239372	Sequence 239372, A	348	34	61.8	572	4	US-10-437-963-165379	Sequence 165379, A
276	34	61.8	188	4	US-10-149-310-58	Sequence 58, Appl	349	34	61.8	576	4	US-10-424-599-216003	Sequence 216003, A
277	34	61.8	195	3	US-09-764-864-854	Sequence 854, Appl	350	34	61.8	583	4	US-10-437-963-162609	Sequence 162609, A
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279	34	61.8	211	4	US-10-425-115-297657	Sequence 297657, A	352	34	61.8	586	4	US-10-087-192-1809	Sequence 1809, Ap
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281	34	61.8	226	4	US-10-425-115-349325	Sequence 349325, A	354	34	61.8	601	4	US-10-425-115-259891	Sequence 259891, A
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283	34	61.8	256	4	US-10-767-701-43536	Sequence 43536, A	356	34	61.8	613	3	US-09-864-761-43107	Sequence 43107, A
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285	34	61.8	257	5	US-10-425-115-318097	Sequence 318097, A	358	34	61.8	619	6	US-10-424-599-25386	Sequence 25386, A
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287	34	61.8	265	6	US-11-097-143-39783	Sequence 39783, A	360	34	61.8	628	4	US-10-741-600-981	Sequence 981, App
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290	34	61.8	278	4	US-10-425-114-42066	Sequence 42066, A	363	34	61.8	633	4	US-10-425-114-60118	Sequence 60118, A
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294	34	61.8	319	4	US-10-425-114-39835	Sequence 39835, A	367	34	61.8	673	4	US-10-424-599-161320	Sequence 161320, A
295	34	61.8	321	4	US-10-425-114-65442	Sequence 65442, A	368	34	61.8	674	4	US-10-424-599-161320	Sequence 161320, A
296	34	61.8	322	4	US-10-425-114-64693	Sequence 64693, A	369	34	61.8	736	4	US-10-408-765A-299	Sequence 299, App
297	34	61.8	323	4	US-10-108-260A-4146	Sequence 4146, Ap	370	34	61.8	827	6	US-10-470-991-3	Sequence 92, Appl
298	34	61.8	332	4	US-10-318-906A-23	Sequence 23, Appl	371	34	61.8	827	6	US-11-097-143-5541	Sequence 5541, Ap
299	34	61.8	332	4	US-10-319-236A-23	Sequence 23, Appl	372	34	61.8	827	6	US-10-450-763-58236	Sequence 58236, A
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305	34	61.8	395	5	US-10-732-923-7411	Sequence 7411, Ap	378	34	61.8	1196	4	US-10-443-349-4	Sequence 4, Appli
306	34	61.8	395	5	US-10-732-923-7531	Sequence 7531, Ap	379	34	61.8	1196	4	US-10-841-131-39	Sequence 4, Appli
307	34	61.8	409	6	US-11-097-143-28527	Sequence 28527, A	380	34	61.8	1170	4	US-10-408-765A-2092	Sequence 2092, Ap
308	34	61.8	416	4	US-10-425-114-38943	Sequence 38943, A	381	34	61.8	1575	4	US-10-262-839-212	Sequence 212, App
309	34	61.8	418	5	US-10-450-763-46564	Sequence 46564, A	382	34	61.8	1587	4	US-09-845-583-210	Sequence 210, App
310	34	61.8	418	5	US-10-450-763-46972	Sequence 46972, A	383	34	61.8	1887	3	US-10-262-839-210	Sequence 210, App
311	34	61.8	418	5	US-10-450-763-47574	Sequence 47574, A	384	34	61.8	1725	4	US-10-037-182-12	Sequence 12, Appl
312	34	61.8	428	5	US-10-788-847-2	Sequence 2, Appli	385	34	61.8	1765	4	US-10-037-182-8	Sequence 8, Appli
313	34	61.8	439	5	US-10-424-599-143196	Sequence 143196, A	386	34	61.8	1786	3	US-09-838-275-6	Sequence 113, App
314	34	61.8	446	5	US-10-732-923-13760	Sequence 13760, A	387	34	61.8	1786	3	US-09-938-275-7	Sequence 7, Appli
315	34	61.8	450	4	US-10-425-115-273156	Sequence 273156, A	388	34	61.8	1786	3	US-10-037-182-6	Sequence 6, Appli
316	34	61.8	459	4	US-10-108-260A-4808	Sequence 4808, Ap	389	34	61.8	1786	4	US-10-037-182-10	Sequence 10, Appli
317	34	61.8	477	4	US-10-424-599-211854	Sequence 211854, A	390	34	61.8	1786	5	US-10-723-860-1110	Sequence 110, Ap
318	34	61.8	485	3	US-10-369-993-3469	Sequence 3469, Ap	391	34	61.8	1887	5	US-10-473-451-10	Sequence 10, Appl
319	34	61.8	485	3	US-09-864-761-37026	Sequence 37026, A	392	34	61.8	1887	5	US-10-473-451-10	Sequence 10, Appl

393	34	61.8	2778	6	US-11-097-143-2841	Sequence 2841, App	466	33	60.0	316	4	US-10-126-099-5	Sequence 5, App11
394	34	61.8	3433	4	US-10-408-765A-731	Sequence 731, App	467	33	60.0	331	3	US-09-764-864-865	Sequence 866, App
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396	34	61.8	3433	5	US-10-756-149-5681	Sequence 5681, App	469	33	60.0	346	4	US-10-424-599-268594	Sequence 268594
397	34	61.8	3726	6	US-11-097-143-18633	Sequence 18633, A	470	33	60.0	347	5	US-10-739-930-5798	Sequence 5798, App
398	33.5	60.9	53	4	US-10-425-115-272652	Sequence 272652, A	471	33	60.0	347	4	US-10-118-804-17	Sequence 11, App1
399	33.5	60.9	103	4	US-10-106-698-6511	Sequence 6511, App	472	33	60.0	361	4	US-10-437-963-108372	Sequence 108372
400	33.5	60.9	139	4	US-10-437-963-121605	Sequence 121605, A	473	33	60.0	366	4	US-09-826-509-433	Sequence 433, App
401	33.5	60.9	139	4	US-10-767-701-11080	Sequence 11080, A	474	33	60.0	366	4	US-10-166-101-2	Sequence 2, App1
402	33.5	60.9	139	4	US-10-425-115-199043	Sequence 199043, A	475	33	60.0	366	4	US-10-166-101-7	Sequence 7, App1
403	33.5	60.9	143	4	US-10-296-115-1448	Sequence 1448, App	476	33	60.0	366	4	US-10-225-567A-10	Sequence 10, App1
404	33.5	60.9	144	4	US-10-425-114-60603	Sequence 61603, A	477	33	60.0	366	4	US-10-352-684A-6	Sequence 6, App11
405	33.5	60.9	177	4	US-10-425-114-40469	Sequence 40469, A	478	33	60.0	366	5	US-10-925-095-433	Sequence 433, App
406	33.5	60.9	193	4	US-10-425-115-202932	Sequence 202932, A	479	33	60.0	368	4	US-10-369-493-12307	Sequence 12307, A
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408	33.5	60.9	613	6	US-11-097-143-14598	Sequence 14598, A	481	33	60.0	370	4	US-10-425-114-37736	Sequence 37736, A
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410	33.5	60.9	814	4	US-10-156-239-52	Sequence 52, App1	483	33	60.0	387	4	US-10-424-599-242736	Sequence 242736, A
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414	33	60.0	20	5	US-10-808-187-1498	Sequence 1498, App	487	33	60.0	406	5	US-10-472-928-3654	Sequence 3654, App
415	33	60.0	20	5	US-10-807-807-1498	Sequence 1498, App	488	33	60.0	411	4	US-10-425-114-38630	Sequence 38630, A
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417	33	60.0	42	4	US-10-425-115-296354	Sequence 296354, A	490	33	60.0	437	6	US-11-097-143-12651	Sequence 12651, A
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419	33	60.0	43	5	US-10-721-793-224	Sequence 224, App	492	33	60.0	439	4	US-10-225-068-178	Sequence 178, App
420	33	60.0	50	5	US-10-767-701-33409	Sequence 43409, A	493	33	60.0	439	4	US-10-374-780A-358	Sequence 358, App
421	33	60.0	51	4	US-10-425-115-229870	Sequence 229870, A	494	33	60.0	440	5	US-10-225-068-1178	Sequence 118, App
422	33	60.0	64	4	US-10-424-599-199176	Sequence 199176, A	495	33	60.0	440	4	US-10-425-114-59337	Sequence 59337, A
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427	33	60.0	78	4	US-10-424-599-194443	Sequence 194443, A	500	33	60.0	466	4	US-10-225-066A-214	Sequence 214, App
428	33	60.0	79	4	US-10-425-115-340113	Sequence 340113, A	501	33	60.0	466	4	US-10-302-267-204	Sequence 204, App
429	33	60.0	82	4	US-10-425-115-369178	Sequence 369178, A	502	33	60.0	466	4	US-10-374-780A-2450	Sequence 2450, App
430	33	60.0	84	4	US-10-424-599-278178	Sequence 278178, A	503	33	60.0	466	4	US-10-412-6998-604	Sequence 604, App
431	33	60.0	100	5	US-10-450-763-39126	Sequence 39126, A	504	33	60.0	466	5	US-10-425-066A-214	Sequence 214, App
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433	33	60.0	104	4	US-10-425-115-263949	Sequence 263949, A	506	33	60.0	473	4	US-10-425-114-42472	Sequence 42472, A
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435	33	60.0	107	4	US-10-425-115-232480	Sequence 232480, A	508	33	60.0	485	4	US-10-425-114-54017	Sequence 54017, A
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445	33	60.0	160	4	US-10-767-701-58345	Sequence 58345, A	518	33	60.0	524	4	US-10-027-806-10	Sequence 10, App1
446	33	60.0	174	4	US-10-220-120-393	Sequence 393, App	519	33	60.0	524	4	US-10-034-623-10	Sequence 10, App1
447	33	60.0	177	3	US-09-864-761-38981	Sequence 38981, A	520	33	60.0	524	4	US-10-027-801-10	Sequence 10, App1
448	33	60.0	183	4	US-10-767-701-61989	Sequence 61989, A	521	33	60.0	524	4	US-10-029-120-10	Sequence 10, App1
449	33	60.0	184	4	US-10-424-599-180089	Sequence 180089, A	522	33	60.0	536	4	US-10-408-765A-1992	Sequence 1902, App
450	33	60.0	184	4	US-10-424-599-211656	Sequence 21162, A	523	33	60.0	544	4	US-10-425-115-182574	Sequence 283574, A
451	33	60.0	185	3	US-09-764-864-1188	Sequence 1188, App	524	33	60.0	550	4	US-10-437-963-152457	Sequence 152457, A
452	33	60.0	201	5	US-10-732-923-18439	Sequence 18439, A	525	33	60.0	552	6	US-11-097-143-3018	Sequence 3018, App
453	33	60.0	204	4	US-10-424-599-273834	Sequence 273834, A	526	33	60.0	554	4	US-10-425-115-303507	Sequence 303507, A
454	33	60.0	212	4	US-10-425-115-315381	Sequence 315381, A	527	33	60.0	562	5	US-10-485-325-36	Sequence 36, App1
455	33	60.0	215	4	US-10-767-701-57374	Sequence 57374, A	528	33	60.0	566	4	US-10-177-478-12	Sequence 17, App1
456	33	60.0	216	4	US-10-288-122A-46134	Sequence 46134, A	529	33	60.0	572	4	US-10-425-114-36880	Sequence 36880, A
457	33	60.0	219	4	US-10-437-963-204471	Sequence 204471, A	530	33	60.0	606	5	US-10-756-149-5371	Sequence 5371, App
458	33	60.0	230	4	US-10-437-963-123737	Sequence 123737, A	531	33	60.0	618	4	US-10-425-114-256333	Sequence 256333, A
459	33	60.0	268	5	US-10-732-923-18438	Sequence 18438, A	532	33	60.0	636	4	US-10-381-327-7	Sequence 7, App11
460	33	60.0	270	4	US-10-104-047-3274	Sequence 3274, App	533	33	60.0	642	6	US-11-097-143-8331	Sequence 8331, App
461	33	60.0	278	4	US-10-425-115-256432	Sequence 256432, A	534	33	60.0	653	4	US-10-425-114-59459	Sequence 59459, A
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463	33	60.0	296	6	US-11-097-143-13674	Sequence 13674, A	536	33	60.0	666	6	US-11-097-143-26892	Sequence 26892, A
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465	33	60.0	306	4	US-10-424-599-24958	Sequence 249528, A	538	33	60.0	666	6	US-11-097-143-29598	Sequence 29598, A

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543	33	60.0	720	4	US-10-282-122A-71337	Sequence 71337, A	616	32	58.2	40	4	US-10-724-972A-4325	Sequence 4325, Ap
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546	33	60.0	734	4	US-10-425-114-49440	Sequence 49440, A	619	32	58.2	47	4	US-10-425-115-216733	Sequence 216733, A
547	33	60.0	774	6	US-11-097-143-7749	Sequence 7749, Ap	620	32	58.2	50	4	US-10-424-599-219179	Sequence 219179, A
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549	33	60.0	797	4	US-10-314-657-32	Sequence 32, Appl	622	32	58.2	53	5	US-10-863-332-257	Sequence 257, App
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551	33	60.0	794	5	US-10-450-763-39127	Sequence 39127, A	624	32	58.2	60	3	US-09-983-802-518	Sequence 518, App
552	33	60.0	840	5	US-10-450-763-32052	Sequence 32052, A	625	32	58.2	60	3	US-09-984-490-518	Sequence 518, App
553	33	60.0	848	4	US-10-437-963-134654	Sequence 134654, A	626	32	58.2	64	3	US-09-973-278-629	Sequence 629, App
554	33	60.0	869	6	US-11-097-143-1179	Sequence 114694, Ap	627	32	58.2	66	4	US-10-425-115-351897	Sequence 351897, A
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557	33	60.0	1005	4	US-10-369-493-1061	Sequence 1061, Ap	630	32	58.2	69	5	US-10-688-058-129	Sequence 129, App
558	33	60.0	1005	5	US-10-733-923-3307	Sequence 3307, Ap	631	32	58.2	70	4	US-10-425-115-286774	Sequence 286774, A
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561	33	60.0	1038	5	US-10-322-281-157	Sequence 157, App	634	32	58.2	73	4	US-10-425-115-295668	Sequence 295668, A
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563	33	60.0	1052	5	US-10-631-467-760	Sequence 760, App	636	32	58.2	75	5	US-10-450-763-66970	Sequence 66970, A
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565	33	60.0	1101	4	US-10-287-971-18	Sequence 18, Appl	638	32	58.2	77	4	US-10-425-115-290659	Sequence 290659, A
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571	33	60.0	1155	4	US-10-603-725-24	Sequence 24, Appl	644	32	58.2	82	4	US-10-424-599-151088	Sequence 151088, A
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573	33	60.0	1165	4	US-10-841-139-2	Sequence 2, Appl	646	32	58.2	83	5	US-10-733-620-20	Sequence 20, Appl
574	33	60.0	1167	4	US-10-603-725-20	Sequence 20, Appl	647	32	58.2	84	5	US-10-733-620-42	Sequence 42, Appl
575	33	60.0	1170	4	US-10-603-725-14	Sequence 14, Appl	648	32	58.2	84	4	US-10-193-616-11	Sequence 61611, A
576	33	60.0	1172	3	US-09-919-172-16	Sequence 16, Appl	649	32	58.2	85	4	US-10-425-115-260311	Sequence 260311, A
577	33	60.0	1172	3	US-09-974-298-56	Sequence 56, Appl	650	32	58.2	84	4	US-10-282-122A-64586	Sequence 64586, A
578	33	60.0	1172	4	US-10-299-058-10	Sequence 10, Appl	651	32	58.2	85	4	US-10-425-115-276751	Sequence 276751, A
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580	33	60.0	1172	4	US-10-603-725-18	Sequence 18, Appl	653	32	58.2	95	4	US-10-733-620-52	Sequence 52, Appl
581	33	60.0	1172	5	US-10-752-986-16	Sequence 16, Appl	654	32	58.2	102	5	US-09-764-864-1309	Sequence 261221, Ap
582	33	60.0	1172	5	US-10-756-149-4806	Sequence 4906, Ap	655	32	58.2	105	3	US-10-425-115-261221	Sequence 261221, Ap
583	33	60.0	1174	4	US-10-603-725-22	Sequence 22, Appl	656	32	58.2	111	5	US-10-733-620-34	Sequence 34, Appl
584	33	60.0	1186	4	US-10-603-725-18	Sequence 18, Appl	657	32	58.2	111	5	US-10-733-620-52	Sequence 52, Appl
585	33	60.0	1501	3	US-09-924-154-17	Sequence 17, Appl	658	32	58.2	111	5	US-10-733-620-54	Sequence 54, Appl
586	33	60.0	1568	3	US-10-712-533A-12	Sequence 12, Appl	659	32	58.2	111	5	US-10-733-620-55	Sequence 55, Appl
587	33	60.0	1623	4	US-10-437-963-202524	Sequence 202524, A	660	32	58.2	111	5	US-10-733-620-55	Sequence 55, Appl
588	33	60.0	1638	5	US-09-925-442-2	Sequence 2, Appl	661	32	58.2	111	5	US-10-733-620-55	Sequence 55, Appl
589	33	60.0	1642	5	US-10-884-813-12	Sequence 12, Appl	662	32	58.2	111	5	US-10-733-620-55	Sequence 55, Appl
590	33	60.0	1642	5	US-10-884-813-4	Sequence 4, Appl	663	32	58.2	111	5	US-10-733-620-55	Sequence 55, Appl
591	33	60.0	1648	3	US-09-825-442-35	Sequence 35, Appl	664	32	58.2	111	5	US-10-733-620-55	Sequence 55, Appl
592	33	60.0	1663	3	US-10-884-813-10	Sequence 10, Appl	665	32	58.2	113	5	US-10-733-620-53	Sequence 53, Appl
593	33	60.0	1971	5	US-10-450-763-37867	Sequence 37867, A	666	32	58.2	113	5	US-10-733-620-71	Sequence 71, Appl
594	33	60.0	2116	4	US-10-824-993A-3475	Sequence 3475, Ap	667	32	58.2	113	5	US-10-617-320-4652	Sequence 4652, App
595	33	60.0	2245	5	US-10-732-923-18446	Sequence 18446, A	668	32	58.2	118	4	US-10-424-599-162458	Sequence 162458, A
596	33	60.0	3084	3	US-09-938-275-4	Sequence 4, Appl	669	32	58.2	128	4	US-10-767-701-37853	Sequence 37853, A
597	33	60.0	3084	3	US-10-262-670-2	Sequence 2, Appl	670	32	58.2	132	4	US-10-425-115-211321	Sequence 211321, A
598	33	60.0	3124	5	US-10-732-923-22709	Sequence 22709, A	671	32	58.2	136	4	US-10-437-963-171023	Sequence 171023, A
599	33	60.0	3127	4	US-10-732-923-22588	Sequence 22588, A	672	32	58.2	137	4	US-10-450-763-4504	Sequence 4504, A
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604	33	60.0	4694	5	US-10-450-763-50176	Sequence 50176, A	677	32	58.2	155	3	US-10-767-701-57197	Sequence 57197, A
605	33	60.0	4694	5	US-10-424-599-276809	Sequence 276809, A	678	32	58.2	159	6	US-11-097-143-27393	Sequence 27393, A
606	32	58.2	32.5	3	US-09-785-632A-39	Sequence 39, Appl	679	32	58.2	162	3	US-09-798-788-11	Sequence 11, Appl
607	32	58.2	23	4	US-10-323-765-39	Sequence 39, Appl	680	32	58.2	162	3	US-10-218-101-421	Sequence 421, App
608	32	58.2	23	4	US-10-314-669-88	Sequence 88, Appl	681	32	58.2	165	4	US-10-106-698-6762	Sequence 6762, Ap
609	32	58.2	23	4	US-10-669-861-88	Sequence 88, Appl	682	32	58.2	165	4	US-10-425-115-244289	Sequence 244289, A
610	32	58.2	23	5	US-10-746-864-80	Sequence 80, Appl	683	32	58.2	165	5	US-10-473-127-1142	Sequence 1142, Ap
611	32	58.2	23	5	US-10-732-620-4	Sequence 4, Appl	684	32	58.2	166	5	US-10-739-930-8334	Sequence 8334, Ap

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687	32	58.2	172	4	US-10-425-115-185005	Sequence 185005, A	760	32	58.2	334	4	US-10-424-599-173504	Sequence 173504, Ap
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689	32	58.2	175	4	US-10-424-599-196215	Sequence 196215, A	762	32	58.2	343	4	US-10-424-599-141165	Sequence 241165, A
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691	32	58.2	183	4	US-10-424-599-146596	Sequence 146596, A	764	32	58.2	359	4	US-10-207-655-1115	Sequence 115, App
692	32	58.2	184	4	US-10-437-963-109118	Sequence 109118, A	765	32	58.2	368	4	US-10-424-599-184327	Sequence 184327, A
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695	32	58.2	192	3	US-09-908-332-65	Sequence 65, Appl	768	32	58.2	369	5	US-10-845-834A-29	Sequence 29, Appl
696	32	58.2	192	3	US-09-783-931-65	Sequence 65, Appl	769	32	58.2	375	4	US-10-424-599-115893	Sequence 215893, A
697	32	58.2	192	5	US-10-877-563-17	Sequence 17, Appl	770	32	58.2	377	5	US-10-974-440-39	Sequence 39, Appl
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699	32	58.2	199	4	US-10-029-386-33979	Sequence 33979, A	772	32	58.2	378	4	US-10-669-861-18	Sequence 18, Appl
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702	32	58.2	224	4	US-10-424-599-163171	Sequence 163171, A	775	32	58.2	383	3	US-10-276-774-2331	Sequence 2331, Ap
703	32	58.2	228	3	US-09-815-242-10077	Sequence 10077, A	776	32	58.2	397	3	US-09-919-039-178	Sequence 178, App
704	32	58.2	228	4	US-10-282-122A-56458	Sequence 56458, A	777	32	58.2	397	5	US-10-473-127-1138	Sequence 1138, Ap
705	32	58.2	228	4	US-10-425-115-237561	Sequence 237561, A	778	32	58.2	397	5	US-10-473-127-1139	Sequence 1139, Ap
706	32	58.2	236	3	US-09-999-121-5	Sequence 5, Appl	779	32	58.2	397	5	US-10-473-127-1140	Sequence 1140, Ap
707	32	58.2	236	4	US-10-169-297-7	Sequence 7, Appl	780	32	58.2	397	5	US-10-473-127-1143	Sequence 1143, Ap
708	32	58.2	236	4	US-10-205-331-74	Sequence 101, Appl	781	32	58.2	397	5	US-10-473-127-1144	Sequence 1144, Ap
709	32	58.2	236	4	US-10-794-899-101	Sequence 101, Appl	782	32	58.2	397	5	US-10-473-127-1145	Sequence 1145, Ap
710	32	58.2	236	5	US-10-473-127-2003	Sequence 2003, Ap	783	32	58.2	397	5	US-10-756-149-4727	Sequence 4727, Ap
711	32	58.2	236	5	US-10-473-127-2006	Sequence 2006, Ap	784	32	58.2	397	5	US-10-631-467-559	Sequence 559, App
712	32	58.2	236	5	US-10-473-127-2006	Sequence 2006, Ap	785	32	58.2	397	5	US-10-631-467-1386	Sequence 1386, Ap
713	32	58.2	236	5	US-10-473-127-2008	Sequence 2008, Ap	786	32	58.2	399	4	US-10-425-114-59393	Sequence 33983, A
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716	32	58.2	236	5	US-10-859-700-17	Sequence 17, Appl	789	32	58.2	403	6	US-11-097-143-11904	Sequence 41904, A
717	32	58.2	236	5	US-10-859-700-18	Sequence 18, Appl	790	32	58.2	408	5	US-10-450-763-40099	Sequence 40099, A
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719	32	58.2	236	5	US-10-859-700-20	Sequence 20, Appl	792	32	58.2	413	4	US-10-425-115-246970	Sequence 246970, Ap
720	32	58.2	236	5	US-10-859-700-21	Sequence 21, Appl	793	32	58.2	419	4	US-10-389-566-67092	Sequence 20992, Ap
721	32	58.2	236	5	US-10-789-378-16	Sequence 16, Appl	794	32	58.2	429	4	US-10-282-122A-55062	Sequence 55062, A
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725	32	58.2	238	4	US-10-373-809-80	Sequence 80, Appl	798	32	58.2	427	4	US-10-389-566-1617	Sequence 1617, Ap
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728	32	58.2	252	4	US-10-788-792-159	Sequence 159, App	801	32	58.2	431	4	US-10-374-979-90	Sequence 90, Appl
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ALIGNMENTS

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; Sequence 11, Application US/10476570
; Publication No. US20040170644A1
; GENERAL INFORMATION:
; APPLICANT: COMMISSARIAT A L'ENERGIE ATOMIQUE
; APPLICANT: INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE
; APPLICANT: MAILLIERE, Bernard
; APPLICANT: BOURGAULT-VILLARD, Isabelle
; APPLICANT: POUVILLE-MORATILLE, Sandra
; APPLICANT: GUILLET, Jean-Gerard
; TITLE OF INVENTION: Mixture of peptides derived from E6 and/or E7
; TITLE OF INVENTION: Papillomavirus proteins and uses thereof
; FILE REFERENCE: 45636-5071-US
; CURRENT APPLICATION NUMBER: US/0/476,570
; CURRENT FILING DATE: 2003-11-04
; PRIOR APPLICATION NUMBER: PCT/FR02/01533
; PRIOR FILING DATE: 2002-05-03
; PRIOR APPLICATION NUMBER: FR 01 05380
; PRIOR FILING DATE: 2001-05-04
; NUMBER OF SEQ ID NOS: 63
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 11
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; ORGANISM: artificial sequence
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; OTHER INFORMATION: Description of the artificial sequence: peptide E6 61-80
US-10-476-570-11

Query Match 100.0%; Score 55; DB 4; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.06;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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; Sequence 4, Application US/10612818
; Publication No. US20040110925A1
; GENERAL INFORMATION:
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APPLICANT: Impact Diagnostics
; APPLICANT: Impact Diagnostics
; TITLE OF INVENTION: Peptides from the E2, E6 and E7 Proteins of Human Papillomaviruses
; TITLE OF INVENTION: 18 for Detecting and/or Diagnosing Cervical and Other Human Papil
; TITLE OF INVENTION: Associated Cancers
; FILE REFERENCE: 3352-2-2
; CURRENT APPLICATION NUMBER: US/10/612,818
; CURRENT FILING DATE: 2003-07-01
; PRIOR APPLICATION NUMBER: US 60/394,172
; PRIOR FILING DATE: 2002-07-02
; PRIOR APPLICATION NUMBER: US 09/828,645
; PRIOR FILING DATE: 2001-04-05
; NUMBER OF SEQ ID NOS: 8
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 4
; LENGTH: 22
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Derived from the E6 early coding region of HPV 16
US-10-612-818-4

Query Match 100.0%; Score 55; DB 4; Length 22;
Best Local Similarity 100.0%; Pred. No. 0.066;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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; Sequence 4, Application US/10995902
; Publication No. US20050221295A1
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; APPLICANT: Impact Diagnostics
; TITLE OF INVENTION: Peptides from the E2, E6 and E7 Proteins of Human Papillomaviruses
; TITLE OF INVENTION: 18 for Detecting and/or Diagnosing Cervical and Other Human Papil
; TITLE OF INVENTION: Associated Cancers
; FILE REFERENCE: 3352-2-2
; CURRENT APPLICATION NUMBER: US/10/995,902
; CURRENT FILING DATE: 2004-11-23
; PRIOR APPLICATION NUMBER: US 60/394,172
; PRIOR FILING DATE: 2002-07-02
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US-10-995-902-4

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; Sequence 6, Application US/10177390
; Publication No. US20030143743A1
; GENERAL INFORMATION:
; APPLICANT: Schuler, Gerold
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APPLICANT: N.V. Antwerp Innovatiecentrum
TITLE OF INVENTION: Improved transfection of Eucaryotic Cells with linear
FILE OF INVENTION: Polynucleotides by Electroporation
FILE REFERENCE: 021505wc/JH/ml
CURRENT APPLICATION NUMBER: US/10/177,390
CURRENT FILING DATE: 2002-06-20
NUMBER OF SEQ ID NOS: 34
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 6
LENGTH: 151
TYPE: PRT
ORGANISM: Human papillomavirus type 16
US-10-177-390-6

Query Match 100.0%; Score 55; DB 4; Length 151;
Best Local Similarity 100.0%; Pred. No. 0.37;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 VCDKCLKFY 9
|||||
Db 62 VCDKCLKFY 70

RESULT 5
US-10-484-063-20
Sequence 20, Application US/10484063
Publication No. US20050048467A1
GENERAL INFORMATION:
APPLICANT: SASTRY, K. JAGANNADHA
APPLICANT: TORTOLERO-LUNA, GUILLERMO
APPLICANT: FOLLEN, MICHAEL
TITLE OF INVENTION: METHODS AND COMPOSITIONS RELATING TO HPV-ASSOCIATED
FILE OF INVENTION: PRE-CANCEROUS AND CANCEROUS GROWTHS, INCLUDING CIN
FILE REFERENCE: UTSC-560US
CURRENT APPLICATION NUMBER: US/10/484,063
CURRENT FILING DATE: 2004-01-16
PRIOR APPLICATION NUMBER: PCT/US02/22198
PRIOR FILING DATE: 2002-07-19
PRIOR APPLICATION NUMBER: 60/306,809
PRIOR FILING DATE: 2001-07-20
NUMBER OF SEQ ID NOS: 27
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 20
LENGTH: 151
TYPE: PRT
ORGANISM: Human papillomavirus
US-10-484-063-20

Query Match 100.0%; Score 55; DB 5; Length 151;
Best Local Similarity 100.0%; Pred. No. 0.37;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 VCDKCLKFY 9
|||||
Db 62 VCDKCLKFY 70

RESULT 6
US-10-484-063-27
Sequence 27, Application US/10484063
Publication No. US20050048467A1
GENERAL INFORMATION:
APPLICANT: SASTRY, K. JAGANNADHA
APPLICANT: TORTOLERO-LUNA, GUILLERMO
APPLICANT: FOLLEN, MICHAEL
TITLE OF INVENTION: METHODS AND COMPOSITIONS RELATING TO HPV-ASSOCIATED
FILE OF INVENTION: PRE-CANCEROUS AND CANCEROUS GROWTHS, INCLUDING CIN
FILE REFERENCE: UTSC-560US
CURRENT APPLICATION NUMBER: US/10/484,063
CURRENT FILING DATE: 2004-01-16
PRIOR APPLICATION NUMBER: PCT/US02/23198
PRIOR FILING DATE: 2002-07-19
PRIOR APPLICATION NUMBER: 60/306,809

PRIOR FILING DATE: 2001-07-20
NUMBER OF SEQ ID NOS: 27
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 27
LENGTH: 151
TYPE: PRT
ORGANISM: Human papillomavirus type 16
US-10-484-063-27

Query Match 100.0%; Score 55; DB 5; Length 151;
Best Local Similarity 100.0%; Pred. No. 0.37;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 VCDKCLKFY 9
|||||
Db 62 VCDKCLKFY 70

RESULT 7
US-10-858-384-2
Sequence 2, Application US/10858384
Publication No. US20050033025A1
GENERAL INFORMATION:
APPLICANT: CHOPPIN, JEANNINE
APPLICANT: BOURGAULT VILLADA, ISABELLE
APPLICANT: GUILLET, JEAN-GERARD
APPLICANT: CONNAN, FRANCES
APPLICANT: FERRIES, ESTELLE
TITLE OF INVENTION: POLYBIPOTIC PROTEIN FRAGMENTS OF THE E6 PROTEIN
FILE OF INVENTION: OR E7 OF HPV, THEIR PRODUCTION AND THEIR USE
TITLE OF INVENTION: PARTICULARLY IN VACCINATION
FILE REFERENCE: 0508-1037-1
CURRENT APPLICATION NUMBER: US/10/858,384
CURRENT FILING DATE: 2004-06-02
PRIOR APPLICATION NUMBER: FR 9907012
PRIOR FILING DATE: 1999-06-03
NUMBER OF SEQ ID NOS: 24
SOFTWARE: PatentIn Ver. 3.2
SEQ ID NO 2
LENGTH: 158
TYPE: PRT
ORGANISM: Human Papillomavirus
US-10-858-384-2

Query Match 100.0%; Score 55; DB 5; Length 158;
Best Local Similarity 100.0%; Pred. No. 0.38;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 VCDKCLKFY 9
|||||
Db 69 VCDKCLKFY 77

RESULT 8
US-10-367-057-16
Sequence 16, Application US/10367057
Publication No. US20050100554A1
GENERAL INFORMATION:
APPLICANT: Cuthill, Scott;
APPLICANT: Jackson, Amanda;
APPLICANT: Lewin, David A.;
APPLICANT: Ooi, Chean Eng
TITLE OF INVENTION: Complexes and Methods of Using Same
FILE REFERENCE: 21402-559
CURRENT APPLICATION NUMBER: US/10/367,057
CURRENT FILING DATE: 2003-02-14
PRIOR APPLICATION NUMBER: 60/256,911
PRIOR FILING DATE: 2002-02-14
NUMBER OF SEQ ID NOS: 198
SOFTWARE: Curaseqlet version 0.1
SEQ ID NO 16
LENGTH: 158
TYPE: PRT

ORGANISM: Homo sapiens
US-10-367-057-16

Query Match 100.0%; Score 55; DB 5; Length 158;
Best Local Similarity 100.0%; Pred. No. 0.38;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 VCDKCLKFY 9
Db 69 VCDKCLKFY 77

RESULT 9
US-11-021-949-13
Sequence 13, Application US/11021949
Publication No. US20050142541A1
GENERAL INFORMATION:
APPLICANT: LU, PETER
APPLICANT: GARMAN, JONATHAN DAVID
APPLICANT: BELMARES, MICHAEL P.
APPLICANT: DIAZ-SARMIENTO, CHAMORRO SOMOZA
APPLICANT: SCHWEIZER, JOHANNES
TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
FILE REFERENCE: VITA-012
CURRENT APPLICATION NUMBER: US/11/021,949
CURRENT FILING DATE: 2004-12-23
PRIOR APPLICATION NUMBER: 60/532,373
PRIOR FILING DATE: 2003-12-23
NUMBER OF SEQ ID NOS: 361
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 13
LENGTH: 158
TYPE: PRT
ORGANISM: human papilloma virus (HPV)
US-11-021-949-13

Query Match 100.0%; Score 55; DB 6; Length 158;
Best Local Similarity 100.0%; Pred. No. 0.38;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 VCDKCLKFY 9
Db 69 VCDKCLKFY 77

RESULT 10
US-10-472-724-2
Sequence 2, Application US/10472724
Publication No. US20040171806A1
GENERAL INFORMATION:
APPLICANT: Cid-Artegui, Angel
APPLICANT: Zur Hausen, Harald
TITLE OF INVENTION: Modified HPV E6 and E7 genes and proteins useful for vaccination
FILE REFERENCE: 4121-154
CURRENT APPLICATION NUMBER: US/10/472,724
CURRENT FILING DATE: 2003-09-17
PRIOR APPLICATION NUMBER: PCT/EP02/03271
PRIOR FILING DATE: 2002-03-22
PRIOR APPLICATION NUMBER: EP 01107271.7
PRIOR FILING DATE: 2001-03-23
NUMBER OF SEQ ID NOS: 27
SOFTWARE: PatentIn version 3.2
SEQ ID NO 2
LENGTH: 171
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic Construct
US-10-472-724-2

Query Match 100.0%; Score 55; DB 4; Length 171;
Best Local Similarity 100.0%; Pred. No. 0.41;

Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 VCDKCLKFY 9
Db 74 VCDKCLKFY 82

RESULT 11
US-11-072-288-1
Sequence 1, Application US/11072288
Publication No. US20050159386A1
GENERAL INFORMATION:
APPLICANT: KIENY, Marie-Paule
APPLICANT: BALLOUT, Jean-Marc
APPLICANT: BIZOUANE, Nadine
TITLE OF INVENTION: ANTITUMORAL COMPOSITION BASED ON IMMUNOGENIC
FILE REFERENCE: 01753-122
CURRENT APPLICATION NUMBER: US/11/072,288
CURRENT FILING DATE: 2005-03-07
PRIOR APPLICATION NUMBER: US/09/462,993
PRIOR FILING DATE: 2000-04-17
PRIOR APPLICATION NUMBER: PCT/FR98/01576
PRIOR FILING DATE: 1998-07-17
PRIOR APPLICATION NUMBER: FR 97/09152
PRIOR FILING DATE: 1997-07-18
NUMBER OF SEQ ID NOS: 23
SOFTWARE: PatentIn Ver. 2.2
SEQ ID NO 1
LENGTH: 243
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Derived from
OTHER INFORMATION: human papillomavirus, strain HPV-16, E6 protein
OTHER INFORMATION: fused F protein signals, clone E6*TMF.
US-11-072-288-1

Query Match 100.0%; Score 55; DB 6; Length 243;
Best Local Similarity 100.0%; Pred. No. 0.56;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 VCDKCLKFY 9
Db 97 VCDKCLKFY 105

RESULT 12
US-09-367-309A-1
Sequence 1, Application US/09367309A
Publication No. US20020081329A1
GENERAL INFORMATION:
APPLICANT: MACFARLAN, RODERICK I.
APPLICANT: MALLIAROS, JIM
TITLE OF INVENTION: CHELATING IMMUNOSTIMULATING COMPLEXES
FILE REFERENCE: 017227/0149
CURRENT APPLICATION NUMBER: US/09/367,309A
CURRENT FILING DATE: 1999-08-11
PRIOR APPLICATION NUMBER: PCT/AU98/00080
PRIOR FILING DATE: 1998-02-13
PRIOR APPLICATION NUMBER: AU PO 5178
PRIOR FILING DATE: 1997-02-19
NUMBER OF SEQ ID NOS: 6
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 1
LENGTH: 266
TYPE: PRT
ORGANISM: Human papillomavirus type 16
US-09-367-309A-1

Query Match 100.0%; Score 55; DB 3; Length 266;
Best Local Similarity 100.0%; Pred. No. 0.61;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 VCDKCLKEY 9
|||
Db 69 VCDKCLKEY 77

RESULT 13
US-10-000-903-4
; Sequence 4, Application US/10000903
; Publication No. US20020182221A1
; GENERAL INFORMATION:
; APPLICANT: Bruck, Claudine
; APPLICANT: Cabezon Silva, Teresa
; APPLICANT: Delisse, Anne-Marie Eva Bernande
; APPLICANT: Gerard, Catherine Marie Ghislaine
; APPLICANT: Lombardo-Bencheikh, Angela
; TITLE OF INVENTION: Vaccine
; FILE REFERENCE: B45107
; CURRENT APPLICATION NUMBER: US/10/000,903
; CURRENT FILING DATE: 2001-10-01
; PRIOR APPLICATION NUMBER: PCT/EP98/05285
; PRIOR FILING DATE: 1998-08-17
; PRIOR APPLICATION NUMBER: GB 9717953.5
; PRIOR FILING DATE: 1997-08-22
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 4
; LENGTH: 273
; TYPE: PRT
; ORGANISM: Homo sapien
US-10-000-903-4

Query Match 100.0%; Score 55; DB 4; Length 273;
Best Local Similarity 100.0%; Pred. No. 0.62;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 VCDKCLKEY 9
|||
Db 175 VCDKCLKEY 183

RESULT 14
US-10-899-771-4
; Sequence 4, Application US/10899771
; Publication No. US20050031638A1
; GENERAL INFORMATION:
; APPLICANT: Dalemans, Wilfried L.J.
; APPLICANT: Gerard, Catherine Marie Ghislaine
; TITLE OF INVENTION: Compositions Comprising Human Papilloma Virus Proteins
; TITLE OF INVENTION: and Fusion Proteins Adjuvanted with a Cpg Oligonucleotide
; FILE REFERENCE: B45124
; CURRENT APPLICATION NUMBER: US/10/899,771
; CURRENT FILING DATE: 2004-07-27
; PRIOR APPLICATION NUMBER: US/09/581,976
; PRIOR FILING DATE: 2000-06-20
; PRIOR APPLICATION NUMBER: PCT/EP98/08563
; PRIOR FILING DATE: 1998-12-18
; PRIOR APPLICATION NUMBER: GB 9727262.9
; PRIOR FILING DATE: 1997-12-24
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 4
; LENGTH: 273
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Chimaeric protein (protein D from Haemophilus
; OTHER INFORMATION: influenzae B and B6 from Human papilloma virus type
; OTHER INFORMATION: 16)
US-10-899-771-4

Query Match 100.0%; Score 55; DB 5; Length 273;
Best Local Similarity 100.0%; Pred. No. 0.62;

Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1 VCDKCLKEY 9
|||
Db 175 VCDKCLKEY 183

RESULT 15
US-10-000-903-10
; Sequence 10, Application US/10000903
; Publication No. US20020182221A1
; GENERAL INFORMATION:
; APPLICANT: Bruck, Claudine
; APPLICANT: Cabezon Silva, Teresa
; APPLICANT: Delisse, Anne-Marie Eva Bernande
; APPLICANT: Gerard, Catherine Marie Ghislaine
; APPLICANT: Lombardo-Bencheikh, Angela
; TITLE OF INVENTION: Vaccine
; FILE REFERENCE: B45107
; CURRENT APPLICATION NUMBER: US/10/000,903
; CURRENT FILING DATE: 2001-10-01
; PRIOR APPLICATION NUMBER: PCT/EP98/05285
; PRIOR FILING DATE: 1998-08-17
; PRIOR APPLICATION NUMBER: GB 9717953.5
; PRIOR FILING DATE: 1997-08-22
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 10
; LENGTH: 292
; TYPE: PRT
; ORGANISM: Homo sapien
US-10-000-903-10

Query Match 100.0%; Score 55; DB 4; Length 292;
Best Local Similarity 100.0%; Pred. No. 0.66;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 VCDKCLKEY 9
|||
Db 194 VCDKCLKEY 202

RESULT 16
US-10-899-771-10
; Sequence 10, Application US/10899771
; Publication No. US20050031638A1
; GENERAL INFORMATION:
; APPLICANT: Dalemans, Wilfried L.J.
; APPLICANT: Gerard, Catherine Marie Ghislaine
; TITLE OF INVENTION: Compositions Comprising Human Papilloma Virus Proteins
; TITLE OF INVENTION: and Fusion Proteins Adjuvanted with a Cpg Oligonucleotide
; FILE REFERENCE: B45124
; CURRENT APPLICATION NUMBER: US/10/899,771
; CURRENT FILING DATE: 2004-07-27
; PRIOR APPLICATION NUMBER: US/09/581,976
; PRIOR FILING DATE: 2000-06-20
; PRIOR APPLICATION NUMBER: PCT/EP98/08563
; PRIOR FILING DATE: 1998-12-18
; PRIOR APPLICATION NUMBER: GB 9727262.9
; PRIOR FILING DATE: 1997-12-24
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 10
; LENGTH: 292
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Chimaeric protein (Clyra from Streptococcus
; OTHER INFORMATION: pneumoniae and B6 from Human papilloma virus type
; OTHER INFORMATION: 16)
US-10-899-771-10

Query Match 100.0%; Score 55; DB 5; Length 292;

Best Local Similarity 100.0%; Pred. No. 0.66; Indels 0; Gaps 0;
Matches 9; Conservative 0; Mismatches 0;

QY 1 VCDKCLKFY 9
|||
Db 194 VCDKCLKFY 202

RESULT 17
US-10-000-903-6
; Sequence 6, Application US/10000903
; Publication No. US20020182221A1
; GENERAL INFORMATION:
; APPLICANT: Bruck, Claudine
; APPLICANT: Cabezon Silva, Teresa
; APPLICANT: Delisse, Anne-Marie Eva Fernande
; APPLICANT: Gerard, Catherine Marie Ghislaine
; APPLICANT: Lombardo-Bencheikh, Angela
; TITLE OF INVENTION: Vaccine
; FILE REFERENCE: B45107
; CURRENT APPLICATION NUMBER: US/10/000.903
; CURRENT FILING DATE: 2001-10-01
; PRIOR APPLICATION NUMBER: PCT/EP98/05285
; PRIOR FILING DATE: 1998-08-17
; PRIOR APPLICATION NUMBER: GB 9717953.5
; PRIOR FILING DATE: 1997-08-22
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 6
; LENGTH: 371
; TYPE: PRT
; ORGANISM: Homo sapien
US-10-000-903-6

Query Match 100.0%; Score 55; DB 4; Length 371;
Best Local Similarity 100.0%; Pred. No. 0.82;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 VCDKCLKFY 9
|||
Db 175 VCDKCLKFY 183

RESULT 18
US-10-899-771-6
; Sequence 6, Application US/10899771
; Publication No. US20050031638A1
; GENERAL INFORMATION:
; APPLICANT: Dalemans, Wilfried L.J.
; APPLICANT: Gerard, Catherine Marie Ghislaine
; TITLE OF INVENTION: Compositions Comprising Human Papilloma Virus Proteins
; FILE REFERENCE: B45124
; CURRENT APPLICATION NUMBER: US/10/899.771
; CURRENT FILING DATE: 2004-07-27
; PRIOR APPLICATION NUMBER: US/09/581.976
; PRIOR FILING DATE: 2000-06-20
; PRIOR APPLICATION NUMBER: PCT/EP98/08563
; PRIOR FILING DATE: 1998-12-18
; PRIOR APPLICATION NUMBER: GB 9727262.9
; PRIOR FILING DATE: 1997-12-24
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 6
; LENGTH: 371
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Chimeraic protein (protein D from Haemophilus
; OTHER INFORMATION: Influenzae B and B6E7 fusion from Human papilloma
; OTHER INFORMATION: virus type 16)
US-10-899-771-6

Query Match 100.0%; Score 55; DB 5; Length 371;
Best Local Similarity 100.0%; Pred. No. 0.82; Indels 0; Gaps 0;
Matches 9; Conservative 0; Mismatches 0;

QY 1 VCDKCLKFY 9
|||
Db 175 VCDKCLKFY 183

RESULT 19
US-10-000-903-14
; Sequence 14, Application US/10000903
; Publication No. US20020182221A1
; GENERAL INFORMATION:
; APPLICANT: Bruck, Claudine
; APPLICANT: Cabezon Silva, Teresa
; APPLICANT: Delisse, Anne-Marie Eva Fernande
; APPLICANT: Gerard, Catherine Marie Ghislaine
; APPLICANT: Lombardo-Bencheikh, Angela
; TITLE OF INVENTION: Vaccine
; FILE REFERENCE: B45107
; CURRENT APPLICATION NUMBER: US/10/000.903
; CURRENT FILING DATE: 2001-10-01
; PRIOR APPLICATION NUMBER: PCT/EP98/05285
; PRIOR FILING DATE: 1998-08-17
; PRIOR APPLICATION NUMBER: GB 9717953.5
; PRIOR FILING DATE: 1997-08-22
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 14
; LENGTH: 390
; TYPE: PRT
; ORGANISM: Homo sapien
US-10-000-903-14

Query Match 100.0%; Score 55; DB 4; Length 390;
Best Local Similarity 100.0%; Pred. No. 0.85;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 VCDKCLKFY 9
|||
Db 194 VCDKCLKFY 202

RESULT 20
US-10-899-771-14
; Sequence 14, Application US/10899771
; Publication No. US20050031638A1
; GENERAL INFORMATION:
; APPLICANT: Dalemans, Wilfried L.J.
; APPLICANT: Gerard, Catherine Marie Ghislaine
; TITLE OF INVENTION: Compositions Comprising Human Papilloma Virus Proteins
; FILE REFERENCE: B45124
; CURRENT APPLICATION NUMBER: US/10/899.771
; CURRENT FILING DATE: 2004-07-27
; PRIOR APPLICATION NUMBER: US/09/581.976
; PRIOR FILING DATE: 2000-06-20
; PRIOR APPLICATION NUMBER: PCT/EP98/08563
; PRIOR FILING DATE: 1998-12-18
; PRIOR APPLICATION NUMBER: GB 9727262.9
; PRIOR FILING DATE: 1997-12-24
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 14
; LENGTH: 390
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Chimeraic protein (Clyta from Streptococcus
; OTHER INFORMATION: pneumoniae and B6E7 fusion from Human papilloma
; OTHER INFORMATION: virus type 16)
US-10-899-771-14

Query Match 100.0%; Score 55; DB 5; Length 390;
Best Local Similarity 100.0%; Pred. No. 0.85;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 VCDKCLKPY 9
|||
Db 194 VCDKCLKPY 202

RESULT 21
US-11-021-949-14
; Sequence 14, Application US/11021949
; Publication No. US20050142541A1
; GENERAL INFORMATION:
; APPLICANT: LU, PETER
; APPLICANT: GARMAN, JONATHAN DAVID
; APPLICANT: BELMARES, MICHAEL P.
; APPLICANT: DIAZ-SARMIENTO, CHAMORRO SOMOZA
; APPLICANT: SCHWEIZER, JOHANNES
; TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
; TITLE OF INVENTION: AND METHODS OF THEIR USE
; FILE REFERENCE: VITA-012
; CURRENT APPLICATION NUMBER: US/11/021,949
; CURRENT FILING DATE: 2004-12-23
; PRIOR APPLICATION NUMBER: 60/532,373
; PRIOR FILING DATE: 2003-12-23
; NUMBER OF SEQ ID NOS: 361
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 14
; LENGTH: 149
; TYPE: PRT
; ORGANISM: human papilloma virus (HPV)

US-11-021-949-14

Query Match 83.6%; Score 46; DB 6; Length 149;
Best Local Similarity 88.9%; Pred. No. 9.7;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 VCDKCLKPY 9
|||
Db 62 VCDKCLKPY 70

RESULT 22
US-11-021-949-18
; Sequence 18, Application US/11021949
; Publication No. US20050142541A1
; GENERAL INFORMATION:
; APPLICANT: LU, PETER
; APPLICANT: GARMAN, JONATHAN DAVID
; APPLICANT: BELMARES, MICHAEL P.
; APPLICANT: DIAZ-SARMIENTO, CHAMORRO SOMOZA
; APPLICANT: SCHWEIZER, JOHANNES
; TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
; TITLE OF INVENTION: AND METHODS OF THEIR USE
; FILE REFERENCE: VITA-012
; CURRENT APPLICATION NUMBER: US/11/021,949
; CURRENT FILING DATE: 2004-12-23
; PRIOR APPLICATION NUMBER: 60/532,373
; PRIOR FILING DATE: 2003-12-23
; NUMBER OF SEQ ID NOS: 361
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 18
; LENGTH: 149
; TYPE: PRT
; ORGANISM: human papilloma virus (HPV)

US-11-021-949-18

Query Match 81.8%; Score 45; DB 6; Length 149;
Best Local Similarity 77.8%; Pred. No. 14;
Matches 7; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 VCDKCLKPY 9
|||
Db 62 VCDKCLKPY 70

RESULT 23
US-11-021-949-19
; Sequence 19, Application US/11021949
; Publication No. US20050142541A1
; GENERAL INFORMATION:
; APPLICANT: LU, PETER
; APPLICANT: GARMAN, JONATHAN DAVID
; APPLICANT: BELMARES, MICHAEL P.
; APPLICANT: DIAZ-SARMIENTO, CHAMORRO SOMOZA
; APPLICANT: SCHWEIZER, JOHANNES
; TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
; TITLE OF INVENTION: AND METHODS OF THEIR USE
; FILE REFERENCE: VITA-012
; CURRENT APPLICATION NUMBER: US/11/021,949
; CURRENT FILING DATE: 2004-12-23
; PRIOR APPLICATION NUMBER: 60/532,373
; PRIOR FILING DATE: 2003-12-23
; NUMBER OF SEQ ID NOS: 361
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 19
; LENGTH: 148
; TYPE: PRT
; ORGANISM: human papilloma virus (HPV)

US-11-021-949-19

Query Match 78.2%; Score 43; DB 6; Length 148;
Best Local Similarity 77.8%; Pred. No. 29;
Matches 7; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 VCDKCLKPY 9
|||
Db 63 VCDKCLKPY 71

RESULT 24
US-10-424-599-252455
; Sequence 252455, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa Thomas J
; APPLICANT: Kovalic David K
; APPLICANT: Zhou Yihua
; APPLICANT: Cao Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated with
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 252455
; LENGTH: 188
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)-(188)
; OTHER INFORMATION: unsure at all Xaa locations
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_69996C.1.pep
US-10-424-599-252455

Query Match 74.5%; Score 41; DB 4; Length 188;
Best Local Similarity 66.7%; Pred. No. 74;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 VCDKCLKPY 9
|||
Db 171 ICDKCSKXY 179

RESULT 25
US-10-450-763-42145
; Sequence 42145, Application US/10450763
; Publication No. US20050196754A1
; GENERAL INFORMATION:
; APPLICANT: Hyseq, Inc
; TITLE OF INVENTION: NOVEL NUCLEIC ACIDS AND POLYPEPTIDES
; FILE REFERENCE: 790CIP3/US
; CURRENT APPLICATION NUMBER: US/10/450,763
; CURRENT FILING DATE: 2003-06-11
; PRIOR APPLICATION NUMBER: PCT/US01/08631
; PRIOR FILING DATE: 2001-03-30
; PRIOR APPLICATION NUMBER: 09/540,217
; PRIOR FILING DATE: 2000-03-31
; PRIOR APPLICATION NUMBER: 09/649,167
; PRIOR FILING DATE: 2000-08-23
; NUMBER OF SEQ ID NOS: 60736
; SOFTWARE: Custom
; SEQ ID NO 42145
; LENGTH: 198
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: DOMAIN
; LOCATION: (99)..(119)
; OTHER INFORMATION: NEUROHYPHYSIAL HORMONE SIGNATURE domain identified by
; OTHER INFORMATION: EMATRIX, accession number PR00831D, p-value=6.595e-09, raw score
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)..(198)
; OTHER INFORMATION: Xaa = X or * as defined in Table 2
US-10-450-763-42145

Query Match 72.7%; Score 40; DB 5; Length 198;
Best Local Similarity 66.7%; Pred. No. 1.1e+02;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 1 VCDKCLKFY 9
||:|||||
Db 73 VCEBCLKY 81

RESULT 26
US-10-424-599-246501
; Sequence 246501, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa Thomas J
; APPLICANT: Kovalic David K
; APPLICANT: Zhou Yihua
; APPLICANT: Cao Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 246501
; LENGTH: 451
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_64621C.1.pcp
US-10-424-599-246501

Query Match 72.7%; Score 40; DB 4; Length 451;
Best Local Similarity 77.8%; Pred. No. 2.3e+02;
Matches 7; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 VCDKCLKFY 9

Db 143 VCDKCSKGY 151
|||||

RESULT 27
US-10-425-114-38721
; Sequence 38721, Application US/10425114
; Publication No. US20040034888A1
; GENERAL INFORMATION:
; APPLICANT: Lin, Jindong
; APPLICANT: Zhou, Yihua
; APPLICANT: Kovalic, David K.
; APPLICANT: Screen, Steven E
; APPLICANT: Tabaska, Jack E
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(5313)B
; CURRENT APPLICATION NUMBER: US/10/425,114
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 73128
; SEQ ID NO 38721
; LENGTH: 458
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; OTHER INFORMATION: Clone ID: UC-GKRONOIR010A05_FLI.pcp
US-10-425-114-38721

Query Match 72.7%; Score 40; DB 4; Length 458;
Best Local Similarity 77.8%; Pred. No. 2.4e+02;
Matches 7; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 VCDKCLKFY 9
|||||
Db 150 VCDKCSKGY 158

RESULT 28
US-10-424-599-199555
; Sequence 199555, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa Thomas J
; APPLICANT: Kovalic David K
; APPLICANT: Zhou Yihua
; APPLICANT: Cao Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 199555
; LENGTH: 152
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)..(152)
; OTHER INFORMATION: unsure at all Xaa locations
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_22222C.1.pcp
US-10-424-599-199555

Query Match 70.9%; Score 39; DB 4; Length 152;
Best Local Similarity 85.7%; Pred. No. 1.3e+02;
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 VCDKCLK 7
:|||||
Db 64 LCDKCLK 70

RESULT 29

US-10-094-749-2604
; Sequence 2604, Application US/10094749
; Publication No. US20030219741A1
; GENERAL INFORMATION:
; APPLICANT: ISOGAI, TAKAO
; APPLICANT: SUGIYAMA, TOMOYASU
; APPLICANT: OTSUKI, TETSUJI
; APPLICANT: WAKAMATSU, AI
; APPLICANT: SATO, HIROYUKI
; APPLICANT: ISHII, SHIZUKO
; APPLICANT: YAMAMOTO, JUN-ICHI
; APPLICANT: ISONO, YUUKO
; APPLICANT: HIO, YURI
; APPLICANT: OTSUKA, KAORU
; APPLICANT: NAGAI, KEIICHI
; APPLICANT: IRIE, RYOTARO
; APPLICANT: TAMECHIKA, ICHIRO
; APPLICANT: SEKI, NAOHITO
; APPLICANT: YOSHIKAWA, TSUTOMU
; APPLICANT: OTSUKA, MOTOMYUKI
; APPLICANT: NAGAHARI, KENJI
; APPLICANT: MASUHO, YASUHIKO
; TITLE OF INVENTION: NOVEL FULL-LENGTH CDNA
; FILE REFERENCE: 084335/0160
; CURRENT APPLICATION NUMBER: US/10/094,749
; CURRENT FILING DATE: 2002-03-12
; PRIOR APPLICATION NUMBER: 60/350,435
; PRIOR FILING DATE: 2002-01-24
; PRIOR APPLICATION NUMBER: JP 2001-328381
; PRIOR FILING DATE: 2001-09-14
; NUMBER OF SEQ ID NOS: 3381
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2604
; LENGTH: 610
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-094-749-2604

Query Match 70.9%; Score 39; DB 4; Length 610;
Best Local Similarity 75.0%; Pred. No. 4.4e+02;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 2 CDKCLKFY 9
Db 360 CDKCLKFY 367

RESULT 30
US-10-108-260A-3772
; Sequence 3772, Application US/10108260A
; Publication No. US20040005560A1
; GENERAL INFORMATION:
; APPLICANT: HELIX RESEARCH INSTITUTE
; TITLE OF INVENTION: No. US20040005560A1 full length CDNA
; FILE REFERENCE: H1-A0106
; CURRENT APPLICATION NUMBER: US/10/108,260A
; CURRENT FILING DATE: 2002-03-27
; NUMBER OF SEQ ID NOS: 5458
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 3772
; LENGTH: 610
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-108-260A-3772

Query Match 70.9%; Score 39; DB 4; Length 610;
Best Local Similarity 75.0%; Pred. No. 4.4e+02;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 2 CDKCLKFY 9
Db 360 CDKCLKFY 367

Db 360 CDKCLKFY 367

RESULT 31
US-10-408-765A-740
; Sequence 740, Application US/10408765A
; Publication No. US20040101874A1
; GENERAL INFORMATION:
; APPLICANT: Ghosh, Soumitra S.
; APPLICANT: Fahy, Eoin D.
; APPLICANT: Zhang, Bing
; APPLICANT: Gibson, Bradford W.
; APPLICANT: Taylor, Steven W.
; APPLICANT: Glenn, Gary M.
; APPLICANT: Warnock, Dale E.
; TITLE OF INVENTION: TARGETS FOR THERAPEUTIC INTERVENTION
; FILE REFERENCE: 660088.465
; CURRENT APPLICATION NUMBER: US/10/408,765A
; CURRENT FILING DATE: 2003-04-04
; NUMBER OF SEQ ID NOS: 3077
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 740
; LENGTH: 738
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-408-765A-740

Query Match 70.9%; Score 39; DB 4; Length 738;
Best Local Similarity 75.0%; Pred. No. 5.2e+02;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 2 CDKCLKFY 9
Db 488 CDKCLKFY 495

RESULT 32
US-10-029-386-30645
; Sequence 30645, Application US/10029386
; Publication No. US20030194704A1
; GENERAL INFORMATION:
; APPLICANT: Penn, Sharon G.
; APPLICANT: Hanzel, David K.
; TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FOR
; FILE REFERENCE: AEOMICA-X-2
; CURRENT APPLICATION NUMBER: US/10/029,386
; CURRENT FILING DATE: 2001-12-20
; NUMBER OF SEQ ID NOS: 34288
; SOFTWARE: Annomax Sequence Listing Engine vers. 1.1
; SEQ ID NO 30645
; LENGTH: 109
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; OTHER INFORMATION: MAP TO CHR20.1
; OTHER INFORMATION: EXPRESSED IN LUNG, SIGNAL = 0.79
; OTHER INFORMATION: EXPRESSED IN HEART, SIGNAL = 0.53
; OTHER INFORMATION: EXPRESSED IN BONE MARROW, SIGNAL = 0.61
; OTHER INFORMATION: SWISSPROT HIT: P52741, EVALU2.00e-09
US-10-029-386-30645

Query Match 69.1%; Score 38; DB 4; Length 109;
Best Local Similarity 66.7%; Pred. No. 1.4e+02;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 VCDKCLKFY 9
Db 39 VCDKCLKFY 47

```
RESULT 33
US-11-021-949-25
; Sequence 25, Application US/11021949
; Publication No. US20050142541A1
; GENERAL INFORMATION:
; APPLICANT: LU, PETER
; APPLICANT: GARMAN, JONATHAN DAVID
; APPLICANT: BELMARES, MICHAEL P.
; APPLICANT: DIAZ-SARMIENTO, CHAMORRO SOMOZA
; TITLE OF INVENTION: SCHWEIZER, JOHANNES
; TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
; FILE REFERENCE: VITA-012
; CURRENT APPLICATION NUMBER: US/11/021,949
; CURRENT FILING DATE: 2004-12-23
; PRIOR APPLICATION NUMBER: 60/532,373
; PRIOR FILING DATE: 2003-12-23
; NUMBER OF SEQ ID NOS: 361
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 25
; LENGTH: 151
; TYPE: PRT
; ORGANISM: human papilloma virus (HPV)
US-11-021-949-25

Query Match      69.1%; Score 38; DB 6; Length 151;
Best Local Similarity 75.0%; Pred. No. 1.9e+02;
Matches 6; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy      2 CDKCLKFY 9
      |||||
Db      63 CKKCLMFY 70

RESULT 34
US-11-021-949-30
; Sequence 30, Application US/11021949
; Publication No. US20050142541A1
; GENERAL INFORMATION:
; APPLICANT: LU, PETER
; APPLICANT: GARMAN, JONATHAN DAVID
; APPLICANT: BELMARES, MICHAEL P.
; APPLICANT: DIAZ-SARMIENTO, CHAMORRO SOMOZA
; TITLE OF INVENTION: SCHWEIZER, JOHANNES
; TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
; FILE REFERENCE: VITA-012
; CURRENT APPLICATION NUMBER: US/11/021,949
; CURRENT FILING DATE: 2004-12-23
; PRIOR APPLICATION NUMBER: 60/532,373
; PRIOR FILING DATE: 2003-12-23
; NUMBER OF SEQ ID NOS: 361
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 30
; LENGTH: 158
; TYPE: PRT
; ORGANISM: human papilloma virus (HPV)
US-11-021-949-30

Query Match      69.1%; Score 38; DB 6; Length 158;
Best Local Similarity 62.5%; Pred. No. 1.9e+02;
Matches 5; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Qy      2 CDKCLKFY 9
      |||||
Db      65 COSCKIFY 72

RESULT 35
US-11-021-949-361
; Sequence 361, Application US/11021949
; Publication No. US20050142541A1
; GENERAL INFORMATION:
```

```
; APPLICANT: LU, PETER
; APPLICANT: GARMAN, JONATHAN DAVID
; APPLICANT: BELMARES, MICHAEL P.
; APPLICANT: DIAZ-SARMIENTO, CHAMORRO SOMOZA
; TITLE OF INVENTION: SCHWEIZER, JOHANNES
; TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
; FILE REFERENCE: VITA-012
; CURRENT APPLICATION NUMBER: US/11/021,949
; CURRENT FILING DATE: 2004-12-23
; PRIOR APPLICATION NUMBER: 60/532,373
; PRIOR FILING DATE: 2003-12-23
; NUMBER OF SEQ ID NOS: 361
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 361
; LENGTH: 158
; TYPE: PRT
; ORGANISM: human papilloma virus (HPV)
US-11-021-949-361

Query Match      69.1%; Score 38; DB 6; Length 158;
Best Local Similarity 62.5%; Pred. No. 1.9e+02;
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy      2 CDKCLKFY 9
      |||||
Db      65 CKKCKIFH 72

RESULT 36
US-10-377-079-64
; Sequence 64, Application US/10377079
; Publication No. US2003036395A1
; GENERAL INFORMATION:
; APPLICANT: Huang, Shi
; TITLE OF INVENTION: PR-Domain Containing Nucleic Acids, Polypeptides,
; FILE REFERENCE: P-IJ 3611
; CURRENT APPLICATION NUMBER: US/10/377,079
; CURRENT FILING DATE: 2003-02-28
; PRIOR APPLICATION NUMBER: US/09/389,956.
; PRIOR FILING DATE: 1999-09-03
; NUMBER OF SEQ ID NOS: 93
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 64
; LENGTH: 161
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-377-079-64

Query Match      69.1%; Score 38; DB 4; Length 161;
Best Local Similarity 66.7%; Pred. No. 1.9e+02;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Qy      1 VCDKCLKFY 9
      |||||
Db      140 VCEKCKTAY 148

RESULT 37
US-11-021-949-31
; Sequence 31, Application US/11021949
; Publication No. US20050142541A1
; GENERAL INFORMATION:
; APPLICANT: LU, PETER
; APPLICANT: GARMAN, JONATHAN DAVID
; APPLICANT: BELMARES, MICHAEL P.
; APPLICANT: DIAZ-SARMIENTO, CHAMORRO SOMOZA
; TITLE OF INVENTION: SCHWEIZER, JOHANNES
; TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
; FILE REFERENCE: VITA-012
; CURRENT APPLICATION NUMBER: US/11/021,949
```

```

; CURRENT FILING DATE: 2004-12-23
; PRIOR APPLICATION NUMBER: 60/532,373
; PRIOR FILING DATE: 2003-12-23
; NUMBER OF SEQ ID NOS: 361
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 31
; LENGTH: 162
; TYPE: PRT
; ORGANISM: human papilloma virus (HPV)
US-11-021-949-31

Query Match      69.1%; Score 38; DB 6; Length 162;
Best Local Similarity 62.5%; Pred. No. 1.9e+02;
Matches 5; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Qy      2 CDKCLKFY 9
Db      69 CQCKIKFY 76

RESULT 38
US-10-425-114-53267
; Sequence 53267, Application US/10425114
; Publication No. US2004003488A1
; GENERAL INFORMATION:
; APPLICANT: Liu, Jingdong
; APPLICANT: Zhou, Yihua
; APPLICANT: Kovalic, David K.
; APPLICANT: Screen, Steven E.
; APPLICANT: Tabaska, Jack E.
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated with
; FILE REFERENCE: 38-21(5313)B
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 73128
; SEQ ID NO 53267
; LENGTH: 241
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; OTHER INFORMATION: Clone ID: 700837183_FLI.pep
US-10-425-114-53267

Query Match      69.1%; Score 38; DB 4; Length 241;
Best Local Similarity 85.7%; Pred. No. 2.8e+02;
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy      1 VCDKCLK 7
Db      194 VCDECLK 200

RESULT 39
US-10-424-599-197309
; Sequence 197309, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J
; APPLICANT: Kovalic, David K
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated with
; FILE REFERENCE: 38-21(53223)B
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 197309
; LENGTH: 256
; TYPE: PRT
; ORGANISM: Glycine max
```

```

; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_20197C.1.pep
US-10-424-599-197309

Query Match      69.1%; Score 38; DB 4; Length 256;
Best Local Similarity 85.7%; Pred. No. 2.9e+02;
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy      1 VCDKCLK 7
Db      209 VCDECLK 215

RESULT 40
US-10-211-462-227
; Sequence 227, Application US/10211462
; Publication No. US2004003495A1
; GENERAL INFORMATION:
; APPLICANT: Murray, Richard
; APPLICANT: Glynn, Richard
; APPLICANT: Watson, Susan R.
; APPLICANT: Aziz, Natasha
; APPLICANT: Eos Biotechnology, Inc.
; TITLE OF INVENTION: Methods of Diagnosis of Angiogenesis, Compositions and
; FILE REFERENCE: 018501-006200US
; CURRENT FILING DATE: 2003-02-13
; PRIOR FILING DATE: 2001-02-14
; PRIOR FILING DATE: 2001-02-14
; PRIOR FILING DATE: 2001-02-22
; PRIOR FILING DATE: 2001-08-03
; PRIOR FILING DATE: 2001-08-03
; PRIOR FILING DATE: 2001-11-29
; NUMBER OF SEQ ID NOS: 230
; SOFTWARE: Patent Ver. 2.1
; SEQ ID NO 227
; LENGTH: 692
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-211-462-227

Query Match      69.1%; Score 38; DB 4; Length 692;
Best Local Similarity 66.7%; Pred. No. 7.1e+02;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy      1 VCDKCLKFY 9
Db      457 VCEKCLBDY 465

RESULT 41
US-10-377-079-2
; Sequence 2, Application US/10377079
; Publication No. US20030236395A1
; GENERAL INFORMATION:
; APPLICANT: Huang, Shi
; TITLE OF INVENTION: PR-Domain Containing Nucleic Acids, Polypeptides,
; FILE REFERENCE: P-LI 3611
; CURRENT FILING DATE: 2003-02-28
; PRIOR FILING DATE: 1999-09-03
; NUMBER OF SEQ ID NOS: 93
; SOFTWARE: Patent Ver. 2.0
; SEQ ID NO 2
; LENGTH: 796
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-377-079-2
```

Query Match 69.1%; Score 38; DB 4; Length 796;
Best Local Similarity 66.7%; Pred. No. 8e+02;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Qy 1 VCDKCLKF 9
Db 726 VCEKCTKAY 734

RESULT 42
US-11-097-143-35724
; Sequence 35724, Application US/11097143
; Publication No. US20050208558A1
; GENERAL INFORMATION:
; APPLICANT: Venter, J. Craig
; APPLICANT: et al.
; TITLE OF INVENTION: DETECTION KIT, SUCH AS NUCLEIC ACID
; TITLE OF INVENTION: ARRAYS, FOR DETECTING EXPRESSION OF 10,000 OR MORE
; TITLE OF INVENTION: DROSOPHILA GENES.
; FILE REFERENCE: CU000728
; CURRENT APPLICATION NUMBER: US/11/097,143
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: 60/157,832
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: 60/160,191
; PRIOR FILING DATE: 1999-10-19
; PRIOR APPLICATION NUMBER: 60/161,932
; PRIOR FILING DATE: 1999-10-28
; PRIOR APPLICATION NUMBER: 60/164,769
; PRIOR FILING DATE: 1999-11-12
; PRIOR APPLICATION NUMBER: 60/173,383
; PRIOR FILING DATE: 1999-12-28
; PRIOR APPLICATION NUMBER: 60/175,693
; PRIOR FILING DATE: 2000-01-12
; PRIOR APPLICATION NUMBER: 60/184,831
; PRIOR FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: 60/191,637
; PRIOR FILING DATE: 2000-03-23
; NUMBER OF SEQ ID NOS: 43008
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 35724
; LENGTH: 1079
; TYPE: PRT
; ORGANISM: DROSOPHILA
US-11-097-143-35724

Query Match 69.1%; Score 38; DB 6; Length 1079;
Best Local Similarity 75.0%; Pred. No. 1.1e+03;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 VCDKCLKF 8
Db 514 VCDPCLQF 521

RESULT 43
US-10-153-273-12
; Sequence 12, Application US/10153273
; Publication No. US20020169305A1
; GENERAL INFORMATION:
; APPLICANT: Shim, Kim L.
; APPLICANT: Chitnis, Chetan
; APPLICANT: Miller, Louis H.
; APPLICANT: Peterson, David S.
; APPLICANT: Su, Xin-zhan
; APPLICANT: Willems, Thomas B.
; TITLE OF INVENTION: BINDING DOMAINS FROM PLASMODIUM VIVAX
; TITLE OF INVENTION: AND PLASMODIUM FALCIPARUM ERYTHROCYTE BINDING PROTEINS
; NUMBER OF SEQUENCES: 37
; CORRESPONDENCE ADDRESSES:
; ADDRESSEE: Knobbe Martens Olson & Bear
; STREET: 620 Newport Center Drive 16th Floor

CITY: Newport Beach
STATE: California
COUNTRY: US
ZIP: 92660
COMPUTER READABLE FORM:
MEDIUM TYPE: floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/153,273
FILING DATE: 21-May-2002
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/09/210,288
FILING DATE: <Unknown>
ATTORNEY/AGENT INFORMATION:
NAME: Fuller, Michael
REGISTRATION NUMBER: 36,516
REFERENCE/DOCKET NUMBER: NIH121.1FWDV1
TELECOMMUNICATION INFORMATION:
TELEPHONE: (619) 235-8550
FAX: (619) 235-0176
INFORMATION FOR SEQ ID NO: 12:
SEQUENCE CHARACTERISTICS:
LENGTH: 2710 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
HYPOTHEICAL: NO
ORIGINAL SOURCE:
ORGANISM: Plasmodium falciparum
SEQUENCE DESCRIPTION: SEQ ID NO: 12:
US-10-153-273-12

Query Match 69.1%; Score 38; DB 4; Length 2710;
Best Local Similarity 85.7%; Pred. No. 2.4e+03;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 2 CDKCLKF 8
Db 2222 CDPCLKF 2228

RESULT 44
US-10-484-063-6
; Sequence 6, Application US/10484063
; Publication No. US20050048467A1
; GENERAL INFORMATION:
; APPLICANT: SASSTRY, K. JAGANNADHA
; APPLICANT: TORTOLERO-LUNA, GUILBERMO
; APPLICANT: FOLLEN, MICHAEL
; TITLE OF INVENTION: METHODS AND COMPOSITIONS RELATING TO HPV-ASSOCIATED
; TITLE OF INVENTION: PRE-CANCEROUS AND CANCEROUS GROWTHS, INCLUDING CIN
; FILE REFERENCE: UTSC-560US
; CURRENT APPLICATION NUMBER: US/10/484,063
; CURRENT FILING DATE: 2004-01-16
; PRIOR APPLICATION NUMBER: PCT/US02/23198
; PRIOR FILING DATE: 2002-07-19
; PRIOR APPLICATION NUMBER: 60/306,809
; PRIOR FILING DATE: 2001-07-20
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: Patent Ver. 2.1
; SEQ ID NO 6
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-484-063-6

Query Match 67.3%; Score 37; DB 5; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.7e+06;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 VCDKCL 6
| | | | |
Db 4 VCDKCL 9

RESULT 45

US-08-344-824-237
Sequence 237, Application US/08344824
Publication No. US20030152580A1
GENERAL INFORMATION:

APPLICANT: SETTE, Alessandro
APPLICANT: SIDNEY, John
TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
NUMBER OF SEQUENCES: 399
CORRESPONDENCE ADDRESS:
ADDRESSEE: Townsend and Townsend Kourie and Crew
STREET: One Market Plaza, Stewart Street Tower, 20th
FLOOR
CITY: San Francisco
STATE: California
COUNTRY: USA
ZIP: 94105

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/344,824
FILING DATE: 23-NOV-1994
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/278,634
FILING DATE: 21-JUL-1994
ATTORNEY/AGENT INFORMATION:
NAME: Bastian, Kevin L.
REGISTRATION NUMBER: 34,774
REFERENCE/DOCKET NUMBER: 14137-80-1
TELEPHONE: (415) 543-9600
TELEFAX: (415) 543-5043
INFORMATION FOR SEQ ID NO: 237:
SEQUENCE CHARACTERISTICS:
LENGTH: 10 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
US-08-344-824-237

Query Match 67.3%; Score 37; DB 2; Length 10;
Best Local Similarity 100.0%; Pred. No. 23;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 VCDKCL 6
| | | | |
Db 5 VCDKCL 10

RESULT 46

US-11-021-949-24
Sequence 24, Application US/11021949
Publication No. US20050142541A1
GENERAL INFORMATION:

APPLICANT: LU, PETER
APPLICANT: GARMAN, JONATHAN DAVID
APPLICANT: BELMARES, MICHAEL P.
APPLICANT: DIAZ-SAMIENTO, CHAMORRO SONOZA
APPLICANT: SCHWEIZER, JOHANNES
TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
TITLE OF INVENTION: AND METHODS OF THEIR USE
FILE REFERENCE: VITA-012

CURRENT APPLICATION NUMBER: US/11/021,949
CURRENT FILING DATE: 2004-12-23
PRIOR APPLICATION NUMBER: 60/532,373
PRIOR FILING DATE: 2003-12-23
NUMBER OF SEQ ID NOS: 361
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 24
LENGTH: 151
TYPE: PRT
ORGANISM: human papilloma virus (HPV)
US-11-021-949-24

Query Match 67.3%; Score 37; DB 6; Length 151;
Best Local Similarity 66.7%; Pred. No. 2,66+02;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

OY 1 VCDKCLKEY 9
| | | | |
Db 62 VCDKCLKEY 70

RESULT 47

US-10-220-120-302
Sequence 302, Application US/10220120
Publication No. US20040048253A1
GENERAL INFORMATION:

APPLICANT: INCYTE GENOMICS, INC.
APPLICANT: PANZER, Scott R.
APPLICANT: SPIRO, Peter A.
APPLICANT: BANYTLE, Steven C.
APPLICANT: SHAN, Puyl
APPLICANT: CHALUP, Michael S.
APPLICANT: CHANG, Simon C.
APPLICANT: CHEN, Alice
APPLICANT: D'SA, Steven A.
APPLICANT: AMSHLEY, Stefan
APPLICANT: DAHL, Christopher R.
APPLICANT: DAM, Tam C.
APPLICANT: DANIELS, Susan E.
APPLICANT: DUFOUR, Gerard E.
APPLICANT: FLORES, Vincent
APPLICANT: FONG, Willy T.
APPLICANT: GREENAWALT, Lila B.
APPLICANT: HILLMAN, Jennifer L.
APPLICANT: JONES, Anissa L.
APPLICANT: LIU, Tommy F.
APPLICANT: ROSEBERRY, Ann M.
APPLICANT: ROSEN, Bruce H.
APPLICANT: RUSSO, Frank D.
APPLICANT: STOCKREHER, Theresa K.
APPLICANT: DAFRO, Abel
APPLICANT: WRIGHT, Rachel J.
APPLICANT: YAP, Pierre E.
APPLICANT: YU, Jimmy Y.
APPLICANT: BRADLEY, Diana L.
APPLICANT: BRATCHEK, Shawn R.
APPLICANT: CHEN, Wensheng
APPLICANT: COHEN, Howard J.
APPLICANT: HODGSON, David M.
APPLICANT: LINCOLN, Stephen E.
APPLICANT: JACKSON, Stuart
TITLE OF INVENTION: MOLECULES FOR DIAGNOSTICS AND THERAPEUTICS
FILE REFERENCE: PT-1113 PCT
CURRENT APPLICATION NUMBER: US/10/220,120
CURRENT FILING DATE: 2002-08-26
PRIOR APPLICATION NUMBER: 60/184,777; 60/184,797; 60/184,698; 60/184,770; 60/184,774;
60/184,693; 60/184,771; 60/184,813; 60/184,776;
60/184,769; 60/184,768; 60/184,837; 60/184,775;
60/184,772; 60/185,213; 60/185,216; 60/204,863; 60/205,221;
60/204,815; 60/203,785; 60/204,821; 60/204,908; 60/204,226;
60/204,525; 60/205,285; 60/205,232; 60/205,323; 60/205,287;
60/205,324; 60/205,286
PRIOR FILING DATE: 2000-02-24; 2000-02-24; 2000-02-24; 2000-02-24; 2000-02-24;

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2000-02-24; 2000-02-24; 2000-02-24; 2000-02-24; 2000-02-24;
2000-02-24; 2000-02-24; 2000-02-24; 2000-02-24; 2000-02-24;
2000-02-24; 2000-02-24; 2000-02-24; 2000-02-24; 2000-02-24;
2000-05-17; 2000-05-12; 2000-05-16; 2000-05-16; 2000-05-15;
2000-05-16; 2000-05-17; 2000-05-16; 2000-05-17; 2000-05-17;
2000-05-17; 2000-05-17; 2000-05-17; 2000-05-17; 2000-05-17;
NUMBER OF SEQ ID NOS: 422
SOFTWARE: PERL Program
SEQ ID NO 302
LENGTH: 181
TYPE: PRT
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: misc feature
OTHER INFORMATION: Incyte ID No. US20040048253A1 LG:1084051.1.orf3:2000MAY19
US-10-220-120-302

Query Match 67.3%; Score 37; DB 4; Length 181;
Best Local Similarity 66.7%; Pred. No. 3.1e+02;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Qy 1 VCDKCLKFY 9
Db 94 VCDKCKQKAF 102

RESULT 48
US-10-767-701-36133
Sequence 36133, Application US/10767701
Publication No. US20040172684A1
GENERAL INFORMATION:
APPLICANT: Kovalic, David K.
APPLICANT: Zhou, Yihua
APPLICANT: Cao, Yongwei
TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
FILE REFERENCE: 38-21(5353)B
CURRENT APPLICATION NUMBER: US/10/767,701
CURRENT FILING DATE: 2004-01-23
NUMBER OF SEQ ID NOS: 63128
SEQ ID NO 36133
LENGTH: 218
TYPE: PRT
ORGANISM: Sorghum bicolor
FEATURE:
OTHER INFORMATION: clone ID: SORBI-28MAY03-C84956_1.pep
US-10-767-701-36133

Query Match 67.3%; Score 37; DB 4; Length 218;
Best Local Similarity 62.5%; Pred. No. 3.6e+02;
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 2 CDKCLKFY 9
Db 62 CDKCKRDY 69

RESULT 49
US-10-363-829-384
Sequence 384, Application US/10363829
Publication No. US20040142331A1
GENERAL INFORMATION:
APPLICANT: Jackson, Stuart E.; Lincoln, Stephen E.;
APPLICANT: Altus, Christina M.; Dufour, Gerard E.;
APPLICANT: Chalup, Michael S.; Jackson, Jennifer L.;
APPLICANT: Jones, Anissa L.; Yu, Jimmy Y.;
APPLICANT: Wright, Rachel J.; Gietzen, Darryl;
APPLICANT: Liu, Tommy F.; Yap, Pierre E.;
APPLICANT: Dahl, Christopher R.; Momiyama, Monika G.;
APPLICANT: Bradley, Diana L.; Rohatgi, Sameer D.;
APPLICANT: Harris, Bernard; Roseberry Lincoln, Ann M.;
APPLICANT: Gerstin, Jr., Edward H.; Peralta, Careyna H.;
APPLICANT: David, Marie H.; Panzer, Scott R.;
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APPLICANT: Flores, Vincent Z.; Daffo, Abel;
APPLICANT: Marwaha, Rakesh; Chen, Alice J.;
APPLICANT: Chang, Simon C.; Au, Alan P.;
APPLICANT: Imman, Rebekah R.
TITLE OF INVENTION: MOLECULES FOR DISEASE DETECTION AND TREATMENT
FILE REFERENCE: PT-1183 USN
CURRENT APPLICATION NUMBER: US/10/363,829
CURRENT FILING DATE: 2003-03-05
PRIOR APPLICATION NUMBER: PCT/US01/27628
PRIOR FILING DATE: 2001-09-05
PRIOR APPLICATION NUMBER: US 60/229,751
PRIOR FILING DATE: 2000-09-05
PRIOR APPLICATION NUMBER: US 60/229,749
PRIOR FILING DATE: 2000-09-05
PRIOR APPLICATION NUMBER: US 60/229,750
PRIOR FILING DATE: 2000-09-05
PRIOR APPLICATION NUMBER: US 60/229,747
PRIOR FILING DATE: 2000-09-05
PRIOR APPLICATION NUMBER: US 60/229,748
PRIOR FILING DATE: 2000-09-05
PRIOR APPLICATION NUMBER: US 60/230,563
PRIOR FILING DATE: 2000-09-05
PRIOR APPLICATION NUMBER: US 60/230,517
PRIOR FILING DATE: 2000-09-06
PRIOR APPLICATION NUMBER: US 60/230,610
PRIOR FILING DATE: 2000-09-06
PRIOR APPLICATION NUMBER: US 60/230,597
PRIOR FILING DATE: 2000-09-06
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 506
SOFTWARE: PERL Program
SEQ ID NO 384
LENGTH: 264
TYPE: PRT
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: misc feature
OTHER INFORMATION: Incyte ID No. LG:1084051.1.orf3:2000SEP08
US-10-363-829-384

Query Match 67.3%; Score 37; DB 4; Length 264;
Best Local Similarity 66.7%; Pred. No. 4.3e+02;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Qy 1 VCDKCLKFY 9
Db 94 VCDKCKQKAF 102

RESULT 50
US-10-363-829-479
Sequence 479, Application US/10363829
Publication No. US20040142331A1
GENERAL INFORMATION:
APPLICANT: Jackson, Stuart E.; Lincoln, Stephen E.;
APPLICANT: Altus, Christina M.; Dufour, Gerard E.;
APPLICANT: Chalup, Michael S.; Jackson, Jennifer L.;
APPLICANT: Jones, Anissa L.; Yu, Jimmy Y.;
APPLICANT: Wright, Rachel J.; Gietzen, Darryl;
APPLICANT: Liu, Tommy F.; Yap, Pierre E.;
APPLICANT: Dahl, Christopher R.; Momiyama, Monika G.;
APPLICANT: Bradley, Diana L.; Rohatgi, Sameer D.;
APPLICANT: Harris, Bernard; Roseberry Lincoln, Ann M.;
APPLICANT: Gerstin, Jr., Edward H.; Peralta, Careyna H.;
APPLICANT: Marwaha, Rakesh; Chen, Alice J.;
APPLICANT: Chang, Simon C.; Au, Alan P.;
APPLICANT: Imman, Rebekah R.
TITLE OF INVENTION: MOLECULES FOR DISEASE DETECTION AND TREATMENT
FILE REFERENCE: PT-1183 USN
CURRENT APPLICATION NUMBER: US/10/363,829
CURRENT FILING DATE: 2003-03-05
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PRIOR APPLICATION NUMBER: PCT/US01/27628
PRIOR FILING DATE: 2001-09-05
PRIOR APPLICATION NUMBER: US 60/229,751
PRIOR FILING DATE: 2000-09-05
PRIOR APPLICATION NUMBER: US 60/229,749
PRIOR FILING DATE: 2000-09-05
PRIOR APPLICATION NUMBER: US 60/229,750
PRIOR FILING DATE: 2000-09-05
PRIOR APPLICATION NUMBER: US 60/229,747
PRIOR FILING DATE: 2000-09-05
PRIOR APPLICATION NUMBER: US 60/229,748
PRIOR FILING DATE: 2000-09-05
PRIOR APPLICATION NUMBER: US 60/230,583
PRIOR FILING DATE: 2000-09-05
PRIOR APPLICATION NUMBER: US 60/230,517
PRIOR FILING DATE: 2000-09-06
PRIOR APPLICATION NUMBER: US 60/230,610
PRIOR FILING DATE: 2000-09-06
PRIOR APPLICATION NUMBER: US 60/230,597
PRIOR FILING DATE: 2000-09-06
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 506
SOFTWARE: PERL Program
SEQ ID NO: 479
LENGTH: 264
TYPE: PRT
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: misc_feature
OTHER INFORMATION: Incyte ID No: LI:1165276.1.orf3:2000SEP08
US-10-363-829-479

Query Match 67.3% Score 37; DB 4; Length 264;
Best Local Similarity 66.7%; Pred. No. 4.3e+02;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 VCDKCIKFY 9
DB 94 VCDKCIKAF 102

Search completed: May 5, 2006, 08:07:16
Job time : 64 secs

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GenCore version 5.1.7
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OM protein - protein search, using sw model

Run on: May 5, 2006, 07:56:56 ; Search time 8.4 Seconds
(without alignments)
49.591 Million cell updates/sec

Title: US-08-170-344-47
Perfect score: 55
Sequence: 1 VCDKCLKFY 9

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 235405 seqs, 46284737 residues

Total number of hits satisfying chosen parameters: 235405

Minimum DB seq length: 0
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Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 1000 summaries

Database :

Published Applications_AA New: *
1: /SID5/ptodata/1/pubpaa/US08_NEW_PUB.pep1.*
2: /SID5/ptodata/1/pubpaa/US06_NEW_PUB.pep.*
3: /SID5/ptodata/1/pubpaa/US07_NEW_PUB.pep.*
4: /SID5/ptodata/1/pubpaa/US08_NEW_PUB.pep.*
5: /SID5/ptodata/1/pubpaa/PCT_NEW_PUB.pep.*
6: /SID5/ptodata/1/pubpaa/US05_NEW_PUB.pep.*
7: /SID5/ptodata/1/pubpaa/US09_NEW_PUB.pep1.*
8: /SID5/ptodata/1/pubpaa/US10_NEW_PUB.pep.*
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12: /SID5/ptodata/1/pubpaa/US60_NEW_PUB.pep.*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	55	100.0	151	9	US-10-530-253-13
2	55	100.0	158	11	US-11-206-118-3
3	55	100.0	248	9	US-10-530-253-1
4	55	100.0	248	9	US-10-530-253-7
5	55	100.0	256	11	US-11-193-923A-2
6	51	92.7	10	9	US-10-530-061-501
7	48	87.3	10	9	US-10-530-061-501
8	48	87.3	11	9	US-10-530-061-501
9	46	83.6	149	9	US-10-530-253-18
10	45	81.8	149	9	US-10-530-253-16
11	43	78.2	248	9	US-10-530-253-3
12	43	78.2	248	9	US-10-530-253-5
13	43	78.2	248	9	US-10-530-253-9
14	43	78.2	248	9	US-10-530-253-11
15	42	76.4	9	9	US-10-530-061-603
16	40	72.7	354	9	US-10-506-454-517
17	39	70.9	9	9	US-10-530-061-604
18	38	69.1	158	9	US-10-530-253-19
19	38	69.1	158	9	US-10-530-253-26
20	37	67.3	151	9	US-10-530-253-21
21	37	67.3	257	11	US-11-188-298-3155

22	67.3	276	11	US-11-188-298-1735	Sequence 1735, Ap
23	67.3	530	11	US-11-110-082-32	Sequence 32, Appl
24	67.3	1609	11	US-11-072-175-185	Sequence 185, App
25	67.3	2442	9	US-10-469-469-252	Sequence 252, App
26	67.3	2442	11	US-11-154-293-4	Sequence 4, Appl
27	67.3	10	9	US-10-530-061-473	Sequence 473, App
28	65.5	67	9	US-10-530-061-567	Sequence 567, App
29	65.5	87	11	US-11-096-568A-1034	Sequence 1034, Ap
30	65.5	158	9	US-11-096-568A-1033	Sequence 1033, Ap
31	65.5	158	9	US-10-530-253-15	Sequence 15, Appl
32	65.5	158	9	US-10-530-253-10	Sequence 20, Appl
33	65.5	219	11	US-11-188-298-3554	Sequence 3554, Ap
34	65.5	304	11	US-11-188-298-1169	Sequence 1169, Ap
35	65.5	329	11	US-11-188-298-22385	Sequence 22385, A
36	65.5	363	11	US-11-188-298-5818	Sequence 5818, Ap
37	65.5	405	11	US-11-188-298-3715	Sequence 3715, Ap
38	65.5	518	11	US-11-188-298-10922	Sequence 10922, A
39	65.5	522	11	US-11-188-298-10418	Sequence 10418, A
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43	65.5	1661	11	US-11-096-568A-30785	Sequence 30785, A
44	65.5	1713	11	US-11-096-568A-30784	Sequence 30784, A
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46	63.6	171	9	US-10-506-454-449	Sequence 449, App
47	63.6	239	11	US-11-188-298-1452	Sequence 1452, Ap
48	63.6	298	11	US-11-264-096-2052	Sequence 2052, Ap
49	63.6	286	11	US-11-264-096-2051	Sequence 2051, Ap
50	63.6	332	8	US-10-511-937-2626	Sequence 2626, Ap
51	63.6	531	11	US-11-188-298-19615	Sequence 19615, A
52	63.6	545	11	US-11-188-298-21733	Sequence 21733, A
53	63.6	548	11	US-11-188-298-10840	Sequence 10840, A
54	63.6	591	9	US-10-506-454-901	Sequence 901, App
55	63.6	2414	9	US-10-512-544-1	Sequence 1, Appl
56	63.6	937	11	US-11-154-293-8	Sequence 8, Appl
57	63.6	3635	11	US-11-019-711-47	Sequence 47, Appl
58	62.7	2107	9	US-10-995-561-827	Sequence 827, App
59	62.7	2480	9	US-10-995-561-825	Sequence 825, App
60	62.7	3116	9	US-10-995-561-826	Sequence 826, App
61	61.8	160	9	US-10-530-253-25	Sequence 25, Appl
62	61.8	263	11	US-11-188-298-8773	Sequence 2773, Ap
63	61.8	271	11	US-11-188-298-831	Sequence 831, App
64	61.8	272	11	US-11-188-298-5474	Sequence 5474, A
65	60.9	132	11	US-11-096-568A-15475	Sequence 15475, A
66	60.9	139	11	US-11-096-568A-15474	Sequence 15474, A
67	60.9	182	9	US-11-096-568A-15473	Sequence 15473, A
68	60.0	10	9	US-10-530-061-801	Sequence 801, App
69	60.0	10	9	US-10-530-061-476	Sequence 476, App
70	60.0	10	11	US-11-004-399-2191	Sequence 2191, Ap
71	60.0	85	11	US-11-096-568A-5034	Sequence 5034, Ap
72	60.0	107	11	US-11-096-568A-5033	Sequence 5033, Ap
73	60.0	155	9	US-10-530-253-23	Sequence 23, Appl
74	60.0	245	11	US-11-188-298-19485	Sequence 19485, A
75	60.0	270	11	US-11-072-512-3274	Sequence 3274, A
76	60.0	298	9	US-10-467-657-4362	Sequence 4362, Ap
77	60.0	370	11	US-11-079-463-9502	Sequence 9502, Ap
78	60.0	373	11	US-11-087-099-3876	Sequence 3876, Ap
79	60.0	390	11	US-11-087-099-10001	Sequence 10001, A
80	60.0	1620	9	US-10-055-877-213	Sequence 213, App
81	60.0	2440	9	US-10-766-317-10	Sequence 10, Appl
82	58.2	152	9	US-10-530-253-39	Sequence 39, Appl
83	58.2	192	11	US-11-022-478-17	Sequence 17, Appl
84	58.2	217	11	US-11-078-725-50	Sequence 615, App
85	58.2	291	11	US-11-078-725-33	Sequence 30, Appl
86	58.2	291	11	US-11-078-725-33	Sequence 24, Appl
87	58.2	331	11	US-11-078-725-33	Sequence 27, Appl
88	58.2	331	11	US-11-078-725-33	Sequence 33, Appl
89	58.2	332	11	US-11-078-725-33	Sequence 51, Appl
90	58.2	332	11	US-11-078-725-33	Sequence 41, Appl
91	58.2	332	11	US-11-078-725-33	Sequence 24, Appl
92	58.2	332	11	US-11-078-725-33	Sequence 2440, Ap
93	58.2	369	11	US-11-078-725-38	Sequence 38, Appl
94	58.2	369	11	US-11-050-346-32	Sequence 32, Appl

95	32	58.2	397	9	US-10-878-556A-155	Sequence 155, App	168	31	56.4	394	11	US-11-096-568A-26650	Sequence 26650, A
96	32	58.2	453	11	US-11-087-009-9841	Sequence 9841, Ap	169	31	56.4	403	11	US-11-096-568A-26649	Sequence 26649, A
97	32	58.2	453	11	US-11-188-298-20121	Sequence 20121, A	170	31	56.4	406	11	US-11-072-512-3010	Sequence 3010, Ap
98	32	58.2	476	9	US-10-330-773-53	Sequence 53, App1	171	31	56.4	419	11	US-11-045-004-2110	Sequence 2110, Ap
99	32	58.2	484	9	US-10-467-657-8518	Sequence 8518, Ap	172	31	56.4	423	11	US-11-070-080-16	Sequence 16, App1
100	32	58.2	484	11	US-11-078-735-43	Sequence 43, App1	173	31	56.4	426	9	US-10-454-437-70	Sequence 70, App1
101	32	58.2	498	11	US-11-050-346-37	Sequence 37, App1	174	31	56.4	458	9	US-10-451-989-166	Sequence 166, App
102	32	58.2	498	11	US-11-072-512-2548	Sequence 2548, Ap	175	31	56.4	468	9	US-10-451-989-166	Sequence 7408, Ap
103	32	58.2	509	11	US-11-188-298-14035	Sequence 14035, A	176	31	56.4	471	11	US-11-079-463-7408	Sequence 8403, Ap
104	32	58.2	516	11	US-11-188-298-455	Sequence 455, App	177	31	56.4	477	11	US-11-188-298-8403	Sequence 467, App
105	32	58.2	517	11	US-11-037-243-76	Sequence 76, App1	178	31	56.4	508	11	US-11-024-953-467	Sequence 6, App1
106	32	58.2	538	11	US-11-124-368A-311	Sequence 311, App	179	31	56.4	551	11	US-11-126-02-6	Sequence 2, App1
107	32	58.2	538	11	US-11-124-368A-312	Sequence 312, App	180	31	56.4	603	11	US-11-183-135-2	Sequence 4, App1
108	32	58.2	538	11	US-11-124-368A-313	Sequence 313, App	181	31	56.4	604	11	US-11-183-135-4	Sequence 19, App1
109	32	58.2	712	9	US-10-995-561-984	Sequence 984, App1	182	31	56.4	604	11	US-11-046-653-1	Sequence 19, App1
110	32	58.2	721	9	US-11-022-478-12	Sequence 12, App1	183	31	56.4	626	11	US-11-050-346-19	Sequence 10266, A
111	32	58.2	722	9	US-10-131-826A-346	Sequence 346, App1	184	31	56.4	642	9	US-10-467-9628-63	Sequence 63, App1
112	32	58.2	723	9	US-10-973-1158-346	Sequence 346, App	185	31	56.4	754	9	US-11-072-512-2937	Sequence 2937, Ap
113	32	58.2	723	9	US-10-137-873A-346	Sequence 346, App	186	31	56.4	757	11	US-11-188-298-4926	Sequence 4926, Ap
114	32	58.2	723	9	US-10-152-370-346	Sequence 346, App	187	31	56.4	926	11	US-11-188-298-4926	Sequence 927, App
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116	32	58.2	723	11	US-11-050-346-62	Sequence 62, App1	189	31	56.4	1067	11	US-11-029-137-3	Sequence 3, App1
117	32	58.2	723	11	US-11-103-077-17	Sequence 17, App1	190	31	56.4	1067	11	US-11-054-918-3	Sequence 8, App1
118	32	58.2	723	11	US-11-103-077-17	Sequence 17, App1	191	31	56.4	1193	11	US-11-022-478-8	Sequence 303, App1
119	32	58.2	723	11	US-11-058-066-17	Sequence 17, App1	192	31	56.4	1218	9	US-10-501-035-303	Sequence 20, App1
120	32	58.2	723	11	US-11-058-066-17	Sequence 17, App1	193	31	56.4	1218	11	US-11-078-735-20	Sequence 65, App1
121	32	58.2	728	11	US-11-022-478-11	Sequence 11, App1	194	31	56.4	1218	11	US-11-050-346-65	Sequence 20, App1
122	32	58.2	735	9	US-10-506-443A-75	Sequence 75, App1	195	31	56.4	1218	11	US-11-103-077-20	Sequence 155, App
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137	31	56.4	99	11	US-11-096-568A-294	Sequence 294, App	210	31	56.4	1863	11	US-11-126-02-2	Sequence 2, App1
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148	31	56.4	231	11	US-11-072-512-1998	Sequence 1998, Ap	221	30.5	55.5	293	11	US-11-096-568A-23297	Sequence 23297, A
149	31	56.4	247	11	US-11-072-512-1998	Sequence 1998, Ap	222	30.5	55.5	297	11	US-11-096-568A-23296	Sequence 23296, A
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152	31	56.4	256	11	US-11-188-298-1284	Sequence 1284, A	225	30.5	55.5	3712	11	US-11-037-243-67	Sequence 67, App1
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156	31	56.4	290	11	US-11-096-568A-33267	Sequence 33267, A	229	30	54.5	11	9	US-10-530-061-783	Sequence 783, App
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158	31	56.4	339	11	US-11-096-568A-33266	Sequence 33266, A	231	30	54.5	15	9	US-10-530-061-1688	Sequence 1688, Ap
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245	30	54.5	112	11	US-11-188-298-21450	Sequence 21450, A
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351	30	54.5	950	8	US-10-511-937-2603	Sequence 2603, Ap
352	30	54.5	951	11	US-11-121-438-14	Sequence 14, Appl1
353	30	54.5	954	11	US-11-079-463-6804	Sequence 6804, Ap
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355	30	54.5	1104	11	US-11-072-512-2506	Sequence 2506, Ap
356	30	54.5	1123	11	US-11-037-243-77	Sequence 77, Appl1
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378	29	52.7	9	11	US-11-045-024-11980	Sequence 11980, A
379	29	52.7	10	9	US-10-530-061-568	Sequence 568, App
380	29	52.7	10	9	US-10-530-061-585	Sequence 585, App
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382	29	52.7	10	11	US-11-045-024-3333	Sequence 3333, Ap
383	29	52.7	10	11	US-11-045-024-4680	Sequence 4680, Ap
384	29	52.7	10	11	US-11-045-024-10085	Sequence 10085, A
385	29	52.7	10	11	US-11-045-024-10129	Sequence 10129, A
386	29	52.7	10	11	US-11-045-024-11983	Sequence 11983, A

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388	29	52.7	11	11	US-11-045-024-2408	Sequence 2408, Ap	461	29	52.7	257	11	US-11-172-740-2007	Sequence 2007, Ap
389	29	52.7	11	11	US-11-045-024-3427	Sequence 3427, Ap	462	29	52.7	259	11	US-11-172-740-5580	Sequence 558, App
390	29	52.7	11	11	US-11-045-024-4835	Sequence 4835, Ap	463	29	52.7	260	11	US-11-096-568A-29072	Sequence 29072, A
391	29	52.7	11	11	US-11-045-024-10089	Sequence 10089, A	464	29	52.7	261	11	US-11-072-512-3891	Sequence 3891, Ap
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393	29	52.7	11	11	US-11-045-024-11986	Sequence 11986, A	466	29	52.7	269	11	US-11-072-513-3593	Sequence 3593, Ap
394	29	52.7	11	11	US-11-045-024-13417	Sequence 13417, A	467	29	52.7	271	11	US-11-096-568A-2888	Sequence 2888, Ap
395	29	52.7	36	9	US-10-957-351-166	Sequence 166, App	468	29	52.7	273	9	US-10-537-697-17	Sequence 17, Appl
396	29	52.7	56	11	US-11-096-568A-11847	Sequence 11847, A	469	29	52.7	273	11	US-11-172-740-557	Sequence 557, App
397	29	52.7	62	9	US-10-914-391A-1	Sequence 1, Appl1	470	29	52.7	273	11	US-11-188-298-5149	Sequence 5149, App
398	29	52.7	68	9	US-10-505-928-817	Sequence 817, App	471	29	52.7	273	11	US-11-188-298-17736	Sequence 17736, A
399	29	52.7	76	9	US-10-467-657-1188	Sequence 1188, Ap	472	29	52.7	275	11	US-11-096-568A-19926	Sequence 19926, A
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412	29	52.7	110	11	US-11-188-298-7736	Sequence 7736, Ap	485	29	52.7	358	11	US-11-188-298-4050	Sequence 4050, Ap
413	29	52.7	110	11	US-11-188-298-8129	Sequence 8129, Ap	486	29	52.7	358	9	US-10-131-826A-416	Sequence 416, App
414	29	52.7	110	11	US-11-188-298-8821	Sequence 8821, Ap	487	29	52.7	358	9	US-10-973-115B-416	Sequence 416, App
415	29	52.7	110	11	US-11-188-298-9394	Sequence 9394, Ap	488	29	52.7	358	9	US-10-218-784-138	Sequence 138, App
416	29	52.7	110	11	US-11-188-298-14360	Sequence 14360, A	489	29	52.7	358	9	US-10-219-061-138	Sequence 138, App
417	29	52.7	110	11	US-11-188-298-14516	Sequence 14516, A	490	29	52.7	358	9	US-10-219-062-138	Sequence 138, App
418	29	52.7	110	11	US-11-188-298-16874	Sequence 16874, A	491	29	52.7	358	9	US-10-219-064-138	Sequence 138, App
419	29	52.7	110	11	US-11-188-298-17121	Sequence 17121, A	492	29	52.7	358	9	US-10-219-064-138	Sequence 138, App
420	29	52.7	110	11	US-11-188-298-17288	Sequence 17288, A	493	29	52.7	358	9	US-10-219-064-138	Sequence 138, App
421	29	52.7	110	11	US-11-188-298-17374	Sequence 17374, A	494	29	52.7	358	9	US-10-137-873A-416	Sequence 416, App
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424	29	52.7	110	11	US-11-188-298-22105	Sequence 22105, A	497	29	52.7	363	11	US-11-072-512-2835	Sequence 2835, Ap
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427	29	52.7	139	9	US-10-995-561-667	Sequence 667, App	500	29	52.7	364	9	US-10-195-888-36	Sequence 36, Appl
428	29	52.7	143	9	US-10-714-887-336	Sequence 336, App	501	29	52.7	364	9	US-10-195-888-36	Sequence 36, Appl
429	29	52.7	150	9	US-10-793-626-328	Sequence 328, App	502	29	52.7	364	9	US-10-195-888-36	Sequence 36, Appl
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435	29	52.7	201	11	US-11-188-298-16070	Sequence 16070, A	508	29	52.7	376	9	US-10-501-035-283	Sequence 283, App
436	29	52.7	208	9	US-10-467-657-1940	Sequence 1940, Ap	509	29	52.7	384	11	US-11-074-176-78	Sequence 78, Appl
437	29	52.7	210	9	US-10-330-773-614	Sequence 614, App	510	29	52.7	414	9	US-10-467-657-4316	Sequence 4316, Ap
438	29	52.7	215	9	US-10-821-234-1544	Sequence 1544, App	511	29	52.7	420	11	US-11-072-512-3015	Sequence 3015, Ap
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442	29	52.7	229	9	US-10-330-773-616	Sequence 616, App	515	29	52.7	436	8	US-10-511-937-2590	Sequence 2590, Ap
443	29	52.7	231	11	US-11-096-568A-27105	Sequence 27105, A	516	29	52.7	437	11	US-11-072-512-2892	Sequence 2892, Ap
444	29	52.7	234	9	US-10-330-773-611	Sequence 611, App	517	29	52.7	438	9	US-10-194-487-110	Sequence 110, App
445	29	52.7	238	9	US-10-537-897-29	Sequence 29, Appl	518	29	52.7	438	9	US-10-195-888-110	Sequence 110, App
446	29	52.7	238	11	US-11-096-568A-27104	Sequence 27104, A	519	29	52.7	438	9	US-10-195-888-110	Sequence 110, App
447	29	52.7	238	11	US-11-096-568A-33975	Sequence 33975, A	520	29	52.7	438	9	US-10-195-888-110	Sequence 110, App
448	29	52.7	240	9	US-10-763-712A-55	Sequence 55, Appl	521	29	52.7	438	11	US-11-183-136-40	Sequence 40, Appl
449	29	52.7	244	11	US-11-096-568A-27103	Sequence 27103, A	522	29	52.7	438	11	US-11-096-568A-32128	Sequence 32128, A
450	29	52.7	244	11	US-11-172-740-2003	Sequence 2003, Ap	523	29	52.7	439	8	US-10-505-928-517	Sequence 517, App
451	29	52.7	247	9	US-10-537-897-11	Sequence 11, Appl	524	29	52.7	439	11	US-11-177-506-32	Sequence 32, Appl
452	29	52.7	247	11	US-11-072-512-2014	Sequence 2014, Ap	525	29	52.7	439	11	US-11-014-842A-23	Sequence 23, Appl
453	29	52.7	247	11	US-11-172-740-566	Sequence 566, App	526	29	52.7	439	11	US-11-210-960-5	Sequence 5, Appl1
454	29	52.7	247	11	US-11-188-298-21639	Sequence 21639, A	527	29	52.7	463	9	US-10-821-234-1094	Sequence 1094, Ap
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456	29	52.7	249	11	US-11-096-568A-2891	Sequence 2891, Ap	529	29	52.7	476	11	US-11-024-959-519	Sequence 519, App
457	29	52.7	252	9	US-10-506-454-818	Sequence 818, App	530	29	52.7	476	11	US-11-096-568A-32127	Sequence 32127, A
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459	29	52.7	252	11	US-11-172-740-2005	Sequence 2005, Ap	532	29	52.7	494	9	US-10-763-712A-71	Sequence 71, Appl

533	29	52.7	494	9	US-10-763-712A-111	Sequence 111, App	606	29	52.7	3433	9	US-10-714-781A-67	Sequence 67, Appl
534	29	52.7	501	11	US-11-172-740-441	Sequence 441, App	607	29	52.7	3433	11	US-11-223-729-2	Sequence 2, Appl1
535	29	52.7	501	11	US-11-188-298-18989	Sequence 18989, A	608	28.5	51.8	159	11	US-11-132-285-7	Sequence 7, Appl1
536	29	52.7	503	9	US-10-878-556A-2	Sequence 2, Appl1	609	28.5	51.8	226	11	US-11-132-285-5	Sequence 5, Appl1
537	29	52.7	504	9	US-10-763-712A-78	Sequence 78, Appl1	610	28.5	51.8	231	11	US-11-132-285-61	Sequence 61, Appl
538	29	52.7	504	11	US-11-232-440-37	Sequence 37, Appl	611	28.5	51.8	231	11	US-11-072-512-3821	Sequence 3821, Ap
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543	29	52.7	539	11	US-11-183-136-38	Sequence 38, Appl	616	28.5	51.8	300	11	US-11-188-298-6274	Sequence 6274, Ap
544	29	52.7	536	9	US-10-995-561-766	Sequence 766, App	617	28.5	51.8	316	11	US-11-188-298-119113	Sequence 19113, A
545	29	52.7	556	9	US-10-995-561-767	Sequence 767, App	618	28	50.9	9	9	US-10-530-061-1171	Sequence 1171, Ap
546	29	52.7	556	11	US-11-124-367A-427	Sequence 427, App	619	28	50.9	10	9	US-10-530-061-577	Sequence 577, App
547	29	52.7	556	11	US-11-124-367A-428	Sequence 428, App	620	28	50.9	11	9	US-10-530-061-1247	Sequence 1247, App
548	29	52.7	556	11	US-11-194-467A-428	Sequence 13, Appl	621	28	50.9	13	9	US-10-530-061-1284	Sequence 1284, Ap
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550	29	52.7	580	11	US-11-183-136-6	Sequence 2, Appl1	623	28	50.9	39	11	US-11-144-947-598	Sequence 598, App
551	29	52.7	580	11	US-11-046-653-2	Sequence 774, App	624	28	50.9	46	11	US-11-096-568A-12668	Sequence 12668, A
552	29	52.7	595	9	US-10-784-004-774	Sequence 774, App	625	28	50.9	47	11	US-11-019-711-58	Sequence 3667, App
553	29	52.7	595	9	US-10-784-004-1108	Sequence 1108, App	626	28	50.9	52	11	US-11-188-298-3867	Sequence 10, Appl
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555	29	52.7	636	11	US-11-072-512-2449	Sequence 2449, Ap	628	28	50.9	75	11	US-11-045-004-2346	Sequence 2781, Ap
556	29	52.7	655	8	US-10-505-928-843	Sequence 843, App	629	28	50.9	86	11	US-11-188-298-2781	Sequence 8852, Ap
557	29	52.7	655	9	US-10-194-487-418	Sequence 418, App	630	28	50.9	89	11	US-11-087-099-3957	Sequence 3957, App
558	29	52.7	655	9	US-10-195-883-418	Sequence 418, App	631	28	50.9	94	11	US-11-087-099-3957	Sequence 1551, Ap
559	29	52.7	655	9	US-10-195-888-418	Sequence 418, App	632	28	50.9	101	11	US-11-172-740-1550	Sequence 1552, Ap
560	29	52.7	655	9	US-10-195-889-418	Sequence 418, App	633	28	50.9	101	11	US-11-172-740-1551	Sequence 1551, Ap
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562	29	52.7	655	11	US-11-072-175-199	Sequence 199, App	635	28	50.9	105	11	US-11-172-536-11	Sequence 16587, A
563	29	52.7	658	11	US-11-096-568A-34302	Sequence 34302, A	636	28	50.9	105	11	US-11-188-298-16587	Sequence 18, Appl
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565	29	52.7	668	11	US-11-096-568A-31245	Sequence 31245, A	638	28	50.9	107	11	US-11-188-298-20880	Sequence 20880, A
566	29	52.7	669	11	US-11-096-568A-34301	Sequence 34301, A	639	28	50.9	109	11	US-11-096-568A-24882	Sequence 61, Appl
567	29	52.7	673	9	US-10-469-469-212	Sequence 212, App	640	28	50.9	110	11	US-11-232-440-61	Sequence 353, App
568	29	52.7	673	9	US-10-469-469-214	Sequence 214, App	641	28	50.9	110	11	US-11-188-298-353	Sequence 163, App
569	29	52.7	680	11	US-11-096-568A-34300	Sequence 34300, A	642	28	50.9	111	9	US-10-485-788A-781	Sequence 781, App
570	29	52.7	684	9	US-10-714-781A-55	Sequence 55, Appl	643	28	50.9	111	11	US-11-053-076-163	Sequence 1373, A
571	29	52.7	684	9	US-10-714-781A-57	Sequence 57, Appl	644	28	50.9	115	11	US-11-096-568A-13273	Sequence 2298, A
572	29	52.7	684	9	US-10-714-781A-61	Sequence 61, Appl	645	28	50.9	117	11	US-11-188-288-22528	Sequence 13772, A
573	29	52.7	686	9	US-10-714-781A-59	Sequence 59, Appl	646	28	50.9	119	11	US-11-096-568A-13272	Sequence 20, Appl
574	29	52.7	690	11	US-11-096-568A-31244	Sequence 31244, A	647	28	50.9	124	10	US-11-182-908-20	Sequence 20, Appl
575	29	52.7	691	11	US-11-210-960-6	Sequence 6, Appl1	648	28	50.9	124	9	US-10-821-234-1311	Sequence 1311, Ap
576	29	52.7	710	11	US-11-169-041-203	Sequence 203, Appl	649	28	50.9	126	9	US-11-043-889-48	Sequence 48, Appl
577	29	52.7	712	11	US-11-037-243-69	Sequence 69, Appl	650	28	50.9	126	11	US-11-205-285-12	Sequence 12, Appl
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582	29	52.7	876	11	US-11-096-568A-20147	Sequence 20147, A	655	28	50.9	155	11	US-11-172-740-1020	Sequence 3129, Ap
583	29	52.7	882	11	US-11-096-568A-31243	Sequence 31243, A	656	28	50.9	167	11	US-11-072-512-3129	Sequence 8694, Ap
584	29	52.7	901	11	US-11-188-298-6431	Sequence 6431, Ap	657	28	50.9	172	11	US-11-087-099-6884	Sequence 2144, Ap
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586	29	52.7	912	11	US-11-042-988-12	Sequence 12, Appl	659	28	50.9	175	9	US-10-506-454-84	Sequence 3760, Ap
587	29	52.7	948	9	US-10-523-477-14	Sequence 14, Appl	660	28	50.9	182	11	US-11-087-099-3760	Sequence 1912, Ap
588	29	52.7	993	9	US-10-784-004-1233	Sequence 1233, Ap	661	28	50.9	188	11	US-11-096-568A-1912	Sequence 5478, Ap
589	29	52.7	1003	11	US-11-204-755-7	Sequence 7, Appl1	662	28	50.9	189	11	US-11-079-463-5478	Sequence 16547, A
590	29	52.7	1003	11	US-11-204-755-9	Sequence 9, Appl1	663	28	50.9	190	11	US-11-096-568A-16247	Sequence 860, App
591	29	52.7	1003	11	US-11-204-755-11	Sequence 11, Appl	664	28	50.9	199	9	US-10-467-657-3856	Sequence 5879, Ap
592	29	52.7	1033	9	US-10-511-989-10	Sequence 10, Appl	665	28	50.9	200	9	US-10-506-454-860	Sequence 4816, Ap
593	29	52.7	1221	9	US-10-506-454-49	Sequence 49, Appl	666	28	50.9	200	11	US-11-087-099-4816	Sequence 10841, A
594	29	52.7	1221	9	US-10-506-454-70	Sequence 70, Appl	667	28	50.9	201	11	US-11-087-099-4816	Sequence 179, Appl
595	29	52.7	1306	9	US-10-467-657-5406	Sequence 5406, Ap	668	28	50.9	204	11	US-11-087-099-10841	Sequence 5878, Ap
596	29	52.7	1388	11	US-11-098-666-11149	Sequence 11149, A	669	28	50.9	205	7	US-09-978-360A-778	Sequence 33085, A
597	29	52.7	1428	9	US-10-677-346-33	Sequence 33, Appl	670	28	50.9	208	11	US-11-096-568A-8978	Sequence 1580, Ap
598	29	52.7	1464	9	US-10-912-971-4	Sequence 4, Appl1	671	28	50.9	212	11	US-11-096-568A-33085	Sequence 9573, Ap
599	29	52.7	1464	11	US-11-076-074-1	Sequence 1, Appl1	672	28	50.9	212	11	US-11-188-288-9573	Sequence 20805, A
600	29	52.7	1464	11	US-11-124-367A-262	Sequence 262, App	673	28	50.9	215	9	US-10-793-626-1580	Sequence 33691, A
601	29	52.7	1669	9	US-10-330-773-392	Sequence 392, App	674	28	50.9	217	11	US-11-188-288-20805	Sequence 27840, A
602	29	52.7	1690	9	US-10-330-773-389	Sequence 389, App	675	28	50.9	218	11	US-11-096-568A-33691	Sequence 2, Appl1
603	29	52.7	2229	11	US-11-188-298-4532	Sequence 4532, Ap	676	28	50.9	225	11	US-11-096-568A-27840	
604	29	52.7	2712	11	US-11-004-399-1736	Sequence 1736, Ap	677	28	50.9	227	9	US-10-537-897-2	
605	29	52.7	3402	9	US-10-204-252-18	Sequence 18, Appl	678	28	50.9	227	9	US-10-537-897-2	

679	28	50.9	235	11	US-11-126-126-16	Sequence 16, Appl	752	28	50.9	384	11	US-11-172-740-1650	Sequence 1650, Ap
680	28	50.9	237	11	US-11-096-568A-1862	Sequence 1862, A	753	28	50.9	397	11	US-11-253-151-33	Sequence 33, Appl
681	28	50.9	239	11	US-11-096-568A-4091	Sequence 4091, Ap	754	28	50.9	398	11	US-11-096-568A-26114	Sequence 26114, A
682	28	50.9	245	11	US-11-096-568A-4332	Sequence 4332, Ap	755	28	50.9	398	11	US-11-096-568A-28332	Sequence 28332, A
683	28	50.9	246	11	US-11-096-568A-33690	Sequence 33690, A	756	28	50.9	403	11	US-11-009-658-14	Sequence 14, Appl
684	28	50.9	247	9	US-10-533-811-9	Sequence 9, Appl1	757	28	50.9	405	11	US-11-188-298-22061	Sequence 22061, A
685	28	50.9	247	11	US-11-072-512-2790	Sequence 2790, Ap	758	28	50.9	406	9	US-10-330-773-602	Sequence 602, App
686	28	50.9	247	11	US-11-087-099-5148	Sequence 5148, Ap	759	28	50.9	406	11	US-11-098-686-10564	Sequence 10564, A
687	28	50.9	250	11	US-11-096-568A-32295	Sequence 32295, A	760	28	50.9	409	11	US-11-072-512-2653	Sequence 2653, Ap
688	28	50.9	253	11	US-11-096-568A-33084	Sequence 33084, A	761	28	50.9	410	9	US-10-763-712A-85	Sequence 85, Appl
689	28	50.9	256	11	US-11-096-568A-19640	Sequence 19640, A	762	28	50.9	414	9	US-10-506-454-813	Sequence 813, App
690	28	50.9	257	11	US-11-096-568A-5877	Sequence 5877, Ap	763	28	50.9	417	11	US-11-098-686-11040	Sequence 11040, A
691	28	50.9	260	11	US-11-098-686-11356	Sequence 11356, A	764	28	50.9	419	11	US-11-113-202-2	Sequence 2, Appl1
692	28	50.9	262	9	US-10-524-647-82	Sequence 82, Appl1	765	28	50.9	419	11	US-11-113-202-4	Sequence 4, Appl1
693	28	50.9	262	9	US-10-524-972-90	Sequence 90, Appl1	766	28	50.9	419	11	US-11-113-202-23	Sequence 23, Appl1
694	28	50.9	262	9	US-10-541-513-2	Sequence 2, Appl1	767	28	50.9	419	11	US-11-205-225-4	Sequence 4, Appl1
695	28	50.9	266	9	US-10-524-972-145	Sequence 145, App	768	28	50.9	424	11	US-11-096-568A-5017	Sequence 5017, Ap
696	28	50.9	267	11	US-11-188-298-3220	Sequence 3220, Ap	769	28	50.9	424	11	US-11-079-463-8115	Sequence 8115, Ap
697	28	50.9	268	11	US-11-188-298-989	Sequence 989, App	770	28	50.9	428	11	US-11-072-512-3675	Sequence 3675, Ap
698	28	50.9	280	9	US-10-131-826A-458	Sequence 458, App	771	28	50.9	431	11	US-11-150-533-43	Sequence 43, Appl1
699	28	50.9	280	9	US-10-689-742-160	Sequence 160, App	772	28	50.9	432	11	US-11-150-533-3	Sequence 3, Appl1
700	28	50.9	280	9	US-10-973-115B-458	Sequence 458, App	773	28	50.9	436	9	US-10-506-454-1644	Sequence 1644, Ap
701	28	50.9	280	9	US-10-194-487-602	Sequence 602, App	774	28	50.9	438	11	US-11-096-568A-5016	Sequence 5016, Ap
702	28	50.9	280	9	US-10-195-883-602	Sequence 602, App	775	28	50.9	454	11	US-10-467-657-604	Sequence 604, App
703	28	50.9	280	9	US-10-195-888-602	Sequence 602, App	776	28	50.9	457	9	US-10-467-657-604	Sequence 2945, Ap
704	28	50.9	280	9	US-10-195-889-602	Sequence 602, App	777	28	50.9	461	8	US-10-511-937-2945	Sequence 5, Appl1
705	28	50.9	280	9	US-10-137-873A-458	Sequence 458, App	778	28	50.9	461	9	US-10-533-328-5	Sequence 32, Appl1
706	28	50.9	280	9	US-10-152-370-458	Sequence 458, App	779	28	50.9	461	10	US-11-183-218-32	Sequence 32, Appl1
707	28	50.9	280	11	US-11-290-153-458	Sequence 458, App	780	28	50.9	461	11	US-11-132-285-6	Sequence 6, Appl1
708	28	50.9	288	11	US-11-199-544-67	Sequence 67, Appl1	781	28	50.9	461	11	US-11-182-946-4	Sequence 4, Appl1
709	28	50.9	291	11	US-11-264-096-1176	Sequence 1176, App	782	28	50.9	461	11	US-11-183-205-32	Sequence 32, Appl1
710	28	50.9	293	11	US-11-079-463-9322	Sequence 9322, Ap	783	28	50.9	461	11	US-11-260-192-2	Sequence 2, Appl1
711	28	50.9	297	11	US-11-096-568A-19638	Sequence 19638, A	784	28	50.9	475	11	US-11-072-512-33470	Sequence 3470, Ap
712	28	50.9	299	11	US-11-096-568A-25714	Sequence 25714, A	785	28	50.9	477	11	US-11-043-004-2548	Sequence 2548, Ap
713	28	50.9	300	11	US-11-188-298-2988	Sequence 2988, Ap	786	28	50.9	483	11	US-11-031-206-126	Sequence 126, App
714	28	50.9	302	11	US-11-096-568A-26115	Sequence 26115, A	787	28	50.9	486	11	US-11-110-082-31	Sequence 31, Appl1
715	28	50.9	304	11	US-11-087-099-1934	Sequence 1934, Ap	788	28	50.9	500	11	US-11-096-568A-28331	Sequence 28331, A
716	28	50.9	305	11	US-11-096-568A-25713	Sequence 25713, A	789	28	50.9	525	11	US-11-102-120-13	Sequence 13, Appl1
717	28	50.9	306	11	US-11-096-568A-1911	Sequence 1911, Ap	790	28	50.9	566	9	US-10-718-264-21	Sequence 21, Appl1
718	28	50.9	307	9	US-10-467-657-1592	Sequence 1592, Ap	791	28	50.9	566	9	US-10-718-264-21	Sequence 21, Appl1
719	28	50.9	307	11	US-11-096-568A-27839	Sequence 27839, A	792	28	50.9	566	11	US-11-176-667-21	Sequence 21, App
720	28	50.9	310	11	US-11-079-463-9199	Sequence 9199, Ap	793	28	50.9	571	9	US-10-506-454-152	Sequence 152, App
721	28	50.9	311	11	US-11-087-099-7611	Sequence 7611, Ap	794	28	50.9	582	11	US-11-205-225-10	Sequence 10, Appl1
722	28	50.9	312	11	US-11-226-657-48	Sequence 48, Appl1	795	28	50.9	586	11	US-11-294-220-7	Sequence 7, Appl1
723	28	50.9	312	11	US-11-096-568A-5358	Sequence 5358, Ap	796	28	50.9	597	11	US-11-294-220-4	Sequence 4, Appl1
724	28	50.9	313	11	US-11-079-463-7771	Sequence 7771, Ap	797	28	50.9	597	11	US-11-294-220-13	Sequence 13, Appl1
725	28	50.9	313	11	US-11-096-568A-1711	Sequence 1711, Ap	798	28	50.9	598	11	US-11-294-220-21	Sequence 21, Appl1
726	28	50.9	314	11	US-11-010-239-123	Sequence 123, App	799	28	50.9	600	11	US-11-294-220-17	Sequence 17, Appl1
727	28	50.9	315	11	US-11-079-463-6284	Sequence 6284, Ap	800	28	50.9	600	11	US-11-294-220-15	Sequence 15, Appl1
728	28	50.9	318	11	US-11-096-568A-1910	Sequence 1910, Ap	801	28	50.9	602	11	US-11-294-220-15	Sequence 15, Appl1
729	28	50.9	320	11	US-11-096-568A-28333	Sequence 28333, A	802	28	50.9	606	11	US-11-294-220-19	Sequence 19, Appl1
730	28	50.9	321	11	US-11-172-740-1698	Sequence 1698, Ap	803	28	50.9	606	11	US-11-294-220-11	Sequence 11, Appl1
731	28	50.9	321	11	US-11-172-740-1699	Sequence 1699, Ap	804	28	50.9	616	11	US-11-058-727-16	Sequence 16, Appl1
732	28	50.9	321	11	US-11-188-298-5115	Sequence 5115, Ap	805	28	50.9	616	11	US-11-108-389-16	Sequence 16, Appl1
733	28	50.9	321	11	US-11-188-298-7609	Sequence 7609, Ap	806	28	50.9	616	11	US-11-224-624-16	Sequence 16, Appl1
734	28	50.9	322	11	US-11-264-096-1402	Sequence 1402, Ap	807	28	50.9	620	11	US-11-058-727-20	Sequence 20, Appl1
735	28	50.9	323	11	US-11-096-568A-25712	Sequence 25712, A	808	28	50.9	620	11	US-11-108-389-20	Sequence 20, Appl1
736	28	50.9	327	11	US-11-087-099-9297	Sequence 9297, Ap	809	28	50.9	620	11	US-11-124-624-20	Sequence 20, Appl1
737	28	50.9	336	11	US-11-096-568A-4321	Sequence 4321, Ap	810	28	50.9	632	11	US-11-213-326-4	Sequence 4, Appl1
738	28	50.9	342	11	US-11-087-099-2226	Sequence 2226, Ap	811	28	50.9	632	11	US-11-249-893-13	Sequence 13, Appl1
739	28	50.9	342	11	US-11-096-568A-21155	Sequence 21155, A	812	28	50.9	641	11	US-11-072-512-3285	Sequence 3285, Ap
740	28	50.9	342	11	US-11-188-298-2168	Sequence 2168, Ap	813	28	50.9	644	11	US-11-294-220-2	Sequence 2, Appl1
741	28	50.9	343	11	US-11-188-298-7333	Sequence 7332, Ap	814	28	50.9	645	11	US-11-154-337-13	Sequence 13, Appl1
742	28	50.9	349	11	US-11-096-568A-21154	Sequence 21154, A	815	28	50.9	645	11	US-11-123-361-13	Sequence 13, Appl1
743	28	50.9	354	11	US-11-096-568A-27838	Sequence 27838, A	816	28	50.9	645	11	US-11-213-557-13	Sequence 13, Appl1
744	28	50.9	356	11	US-11-096-568A-10674	Sequence 10674, A	817	28	50.9	645	11	US-11-222-587-13	Sequence 13, Appl1
745	28	50.9	358	11	US-11-087-099-9519	Sequence 9519, Ap	818	28	50.9	645	11	US-11-234-586-13	Sequence 13, Appl1
746	28	50.9	363	11	US-11-087-099-8947	Sequence 8947, Ap	819	28	50.9	646	11	US-11-213-326-6	Sequence 6, Appl1
747	28	50.9	364	11	US-11-096-568A-5018	Sequence 5018, Ap	820	28	50.9	655	11	US-11-096-568A-31028	Sequence 31028, A
748	28	50.9	365	11	US-11-087-099-8034	Sequence 8034, Ap	821	28	50.9	667	11	US-11-150-733-24	Sequence 24, Appl1
749	28	50.9	365	11	US-11-188-298-5665	Sequence 5665, Ap	822	28	50.9	669	11	US-11-058-727-6	Sequence 6, Appl1
750	28	50.9	369	11	US-11-087-099-8038	Sequence 8038, Ap	823	28	50.9	669	11	US-11-058-727-12	Sequence 12, Appl1
751	28	50.9	377	11	US-11-188-298-16552	Sequence 16552, A	824	28	50.9	669	11	US-11-108-389-6	Sequence 6, Appl1

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826	28	50.9	669	11	US-11-224-624-6	Sequence 6, Appl	899	28	50.9	674	11	US-11-224-624-42	Sequence 42, Appl
827	28	50.9	669	11	US-11-224-624-12	Sequence 12, Appl	900	28	50.9	675	11	US-11-058-727-42	Sequence 42, Appl
828	28	50.9	673	11	US-11-058-727-8	Sequence 8, Appl	901	28	50.9	675	11	US-11-058-727-46	Sequence 46, Appl
829	28	50.9	673	11	US-11-058-727-14	Sequence 14, Appl	902	28	50.9	675	11	US-11-058-727-74	Sequence 74, Appl
830	28	50.9	673	11	US-11-058-727-22	Sequence 22, Appl	903	28	50.9	675	11	US-11-058-727-78	Sequence 78, Appl
831	28	50.9	673	11	US-11-058-727-26	Sequence 26, Appl	904	28	50.9	675	11	US-11-058-727-80	Sequence 80, Appl
832	28	50.9	673	11	US-11-058-727-30	Sequence 30, Appl	905	28	50.9	675	11	US-11-108-389-42	Sequence 42, Appl
833	28	50.9	673	11	US-11-058-727-34	Sequence 34, Appl	906	28	50.9	675	11	US-11-108-389-46	Sequence 46, Appl
834	28	50.9	673	11	US-11-058-727-54	Sequence 54, Appl	907	28	50.9	675	11	US-11-108-389-48	Sequence 48, Appl
835	28	50.9	673	11	US-11-058-727-56	Sequence 56, Appl	908	28	50.9	675	11	US-11-108-389-74	Sequence 74, Appl
836	28	50.9	673	11	US-11-058-727-58	Sequence 58, Appl	909	28	50.9	675	11	US-11-108-389-80	Sequence 80, Appl
837	28	50.9	673	11	US-11-058-727-60	Sequence 60, Appl	910	28	50.9	675	11	US-11-108-389-78	Sequence 78, Appl
838	28	50.9	673	11	US-11-058-727-62	Sequence 62, Appl	911	28	50.9	675	11	US-11-150-533-12	Sequence 12, Appl
839	28	50.9	673	11	US-11-058-727-64	Sequence 64, Appl	912	28	50.9	675	11	US-11-224-624-42	Sequence 42, Appl
840	28	50.9	673	11	US-11-058-727-66	Sequence 66, Appl	913	28	50.9	675	11	US-11-224-624-46	Sequence 46, Appl
841	28	50.9	673	11	US-11-058-727-68	Sequence 68, Appl	914	28	50.9	675	11	US-11-224-624-48	Sequence 48, Appl
842	28	50.9	673	11	US-11-058-727-70	Sequence 70, Appl	915	28	50.9	675	11	US-11-224-624-74	Sequence 74, Appl
843	28	50.9	673	11	US-11-058-727-76	Sequence 76, Appl	916	28	50.9	675	11	US-11-224-624-78	Sequence 78, Appl
844	28	50.9	673	11	US-11-058-727-88	Sequence 88, Appl	917	28	50.9	675	11	US-11-224-624-80	Sequence 80, Appl
845	28	50.9	673	11	US-11-058-727-90	Sequence 90, Appl	918	28	50.9	676	11	US-11-058-727-40	Sequence 40, Appl
846	28	50.9	673	11	US-11-058-727-92	Sequence 92, Appl	919	28	50.9	676	11	US-11-058-727-72	Sequence 72, Appl
847	28	50.9	673	11	US-11-058-727-94	Sequence 94, Appl	920	28	50.9	676	11	US-11-108-389-40	Sequence 40, Appl
848	28	50.9	673	11	US-11-108-389-8	Sequence 8, Appl	921	28	50.9	676	11	US-11-108-389-72	Sequence 72, Appl
849	28	50.9	673	11	US-11-108-389-14	Sequence 14, Appl	922	28	50.9	676	11	US-11-224-624-40	Sequence 40, Appl
850	28	50.9	673	11	US-11-108-389-22	Sequence 22, Appl	923	28	50.9	676	11	US-11-224-624-72	Sequence 72, Appl
851	28	50.9	673	11	US-11-108-389-26	Sequence 26, Appl	924	28	50.9	677	11	US-11-058-727-52	Sequence 52, Appl
852	28	50.9	673	11	US-11-108-389-30	Sequence 30, Appl	925	28	50.9	677	11	US-11-058-727-84	Sequence 84, Appl
853	28	50.9	673	11	US-11-108-389-34	Sequence 34, Appl	926	28	50.9	677	11	US-11-108-389-52	Sequence 52, Appl
854	28	50.9	673	11	US-11-108-389-54	Sequence 54, Appl	927	28	50.9	677	11	US-11-108-389-84	Sequence 84, Appl
855	28	50.9	673	11	US-11-108-389-56	Sequence 56, Appl	928	28	50.9	677	11	US-11-108-389-84	Sequence 84, Appl
856	28	50.9	673	11	US-11-108-389-58	Sequence 58, Appl	929	28	50.9	677	11	US-11-224-624-84	Sequence 84, Appl
857	28	50.9	673	11	US-11-108-389-60	Sequence 60, Appl	930	28	50.9	677	11	US-11-224-624-84	Sequence 84, Appl
858	28	50.9	673	11	US-11-108-389-62	Sequence 62, Appl	931	28	50.9	686	11	US-11-213-326-2	Sequence 2, Appl
859	28	50.9	673	11	US-11-108-389-64	Sequence 64, Appl	932	28	50.9	686	11	US-11-195-009-7	Sequence 7, Appl
860	28	50.9	673	11	US-11-108-389-66	Sequence 66, Appl	933	28	50.9	686	11	US-11-249-693-2	Sequence 3, Appl
861	28	50.9	673	11	US-11-108-389-68	Sequence 68, Appl	934	28	50.9	686	11	US-11-249-693-3	Sequence 4, Appl
862	28	50.9	673	11	US-11-108-389-70	Sequence 70, Appl	935	28	50.9	686	11	US-11-249-693-4	Sequence 5, Appl
863	28	50.9	673	11	US-11-108-389-86	Sequence 86, Appl	936	28	50.9	686	11	US-11-249-693-6	Sequence 6, Appl
864	28	50.9	673	11	US-11-108-389-88	Sequence 88, Appl	937	28	50.9	686	11	US-11-249-693-7	Sequence 7, Appl
865	28	50.9	673	11	US-11-108-389-90	Sequence 90, Appl	938	28	50.9	686	11	US-11-249-693-8	Sequence 8, Appl
866	28	50.9	673	11	US-11-108-389-92	Sequence 92, Appl	939	28	50.9	686	11	US-11-249-693-9	Sequence 9, Appl
867	28	50.9	673	11	US-11-108-389-94	Sequence 94, Appl	940	28	50.9	686	11	US-11-249-693-10	Sequence 10, Appl
868	28	50.9	673	11	US-11-224-624-8	Sequence 8, Appl	941	28	50.9	686	11	US-11-249-693-11	Sequence 11, Appl
869	28	50.9	673	11	US-11-224-624-14	Sequence 14, Appl	942	28	50.9	686	11	US-11-150-533-10	Sequence 10, Appl
870	28	50.9	673	11	US-11-224-624-22	Sequence 22, Appl	943	28	50.9	688	11	US-11-150-533-2	Sequence 2, Appl
871	28	50.9	673	11	US-11-224-624-26	Sequence 26, Appl	944	28	50.9	692	11	US-10-063-703-162	Sequence 162, App
872	28	50.9	673	11	US-11-224-624-30	Sequence 30, Appl	945	28	50.9	705	9	US-10-194-487-598	Sequence 598, App
873	28	50.9	673	11	US-11-224-624-34	Sequence 34, Appl	946	28	50.9	705	9	US-10-195-883-558	Sequence 598, App
874	28	50.9	673	11	US-11-224-624-54	Sequence 54, Appl	947	28	50.9	705	9	US-10-195-883-558	Sequence 598, App
875	28	50.9	673	11	US-11-224-624-54	Sequence 54, Appl	948	28	50.9	705	9	US-10-195-883-558	Sequence 598, App
876	28	50.9	673	11	US-11-224-624-56	Sequence 56, Appl	949	28	50.9	705	9	US-10-195-883-558	Sequence 598, App
877	28	50.9	673	11	US-11-224-624-58	Sequence 58, Appl	950	28	50.9	705	10	US-11-311-551-14	Sequence 14, Appl
878	28	50.9	673	11	US-11-224-624-60	Sequence 60, Appl	951	28	50.9	705	10	US-11-311-551-14	Sequence 14, Appl
879	28	50.9	673	11	US-11-224-624-62	Sequence 62, Appl	952	28	50.9	705	11	US-11-102-240-162	Sequence 162, App
880	28	50.9	673	11	US-11-224-624-64	Sequence 64, Appl	953	28	50.9	705	11	US-11-102-240-162	Sequence 162, App
881	28	50.9	673	11	US-11-224-624-66	Sequence 66, Appl	954	28	50.9	705	11	US-11-103-155-162	Sequence 155, App
882	28	50.9	673	11	US-11-224-624-68	Sequence 68, Appl	955	28	50.9	705	11	US-11-188-288-20662	Sequence 20662, A
883	28	50.9	673	11	US-11-224-624-70	Sequence 70, Appl	956	28	50.9	707	9	US-11-963-439-6	Sequence 6, Appl
884	28	50.9	673	11	US-11-224-624-86	Sequence 86, Appl	957	28	50.9	708	11	US-11-150-533-65	Sequence 65, Appl
885	28	50.9	673	11	US-11-224-624-88	Sequence 88, Appl	958	28	50.9	717	9	US-10-624-933-12	Sequence 12, Appl
886	28	50.9	673	11	US-11-224-624-88	Sequence 88, Appl	959	28	50.9	720	9	US-10-063-703-38	Sequence 38, Appl
887	28	50.9	673	11	US-11-224-624-90	Sequence 90, Appl	960	28	50.9	720	9	US-10-194-487-170	Sequence 170, App
888	28	50.9	673	11	US-11-224-624-92	Sequence 92, Appl	961	28	50.9	720	9	US-10-195-883-170	Sequence 170, App
889	28	50.9	673	11	US-11-224-624-94	Sequence 94, Appl	962	28	50.9	720	9	US-10-195-883-170	Sequence 170, App
890	28	50.9	674	11	US-11-058-727-50	Sequence 50, Appl	963	28	50.9	720	11	US-11-103-125-38	Sequence 38, Appl
891	28	50.9	674	11	US-11-058-727-76	Sequence 76, Appl	964	28	50.9	720	11	US-11-103-125-38	Sequence 38, Appl
892	28	50.9	674	11	US-11-108-389-44	Sequence 44, Appl	965	28	50.9	722	9	US-10-793-628-1230	Sequence 1230, Ap
893	28	50.9	674	11	US-11-108-389-50	Sequence 50, Appl	966	28	50.9	722	9	US-11-311-551-18	Sequence 18, Appl
894	28	50.9	674	11	US-11-108-389-76	Sequence 76, Appl	967	28	50.9	728	10	US-11-311-551-18	Sequence 3399, Ap
895	28	50.9	674	11	US-11-108-389-82	Sequence 82, Appl	968	28	50.9	728	11	US-11-072-512-3399	Sequence 8113, Ap
896	28	50.9	674	11	US-11-224-624-44	Sequence 44, Appl	969	28	50.9	728	11	US-11-072-512-3399	Sequence 8113, Ap
897	28	50.9	674	11	US-11-224-624-50	Sequence 50, Appl	970	28	50.9	728	11	US-11-079-463-8113	Sequence 8113, Ap

771 28 50.9 739 9 US-10-963-439-5 Sequence 5, Appl1
772 28 50.9 753 9 US-10-467-657-6852 Sequence 6682, Ap
773 28 50.9 767 9 US-10-467-657-2430 Sequence 2430, Ap
774 28 50.9 767 9 US-10-467-657-6630 Sequence 6630, Ap
975 28 50.9 791 11 US-11-072-512-3296 Sequence 3296, Ap
976 28 50.9 808 11 US-11-072-512-3234 Sequence 2234, Ap
977 28 50.9 838 9 US-10-645-441-9 Sequence 9, Appl1
978 28 50.9 839 9 US-10-725-475-6 Sequence 6, Appl1
979 28 50.9 839 11 US-11-050-804-4 Sequence 4, Appl1
980 28 50.9 857 11 US-11-096-568A-28238 Sequence 28238, A
981 28 50.9 875 11 US-11-096-568A-31027 Sequence 31027, A
982 28 50.9 912 9 US-10-501-035-372 Sequence 372, App
983 28 50.9 913 11 US-11-096-568A-31026 Sequence 31026, A
984 28 50.9 926 11 US-11-288-493-40 Sequence 40, Appl
985 28 50.9 933 8 US-10-511-455-50 Sequence 50, Appl
986 28 50.9 954 11 US-11-096-568A-31293 Sequence 31293, A
987 28 50.9 956 8 US-10-511-455-41 Sequence 41, Appl
988 28 50.9 959 11 US-11-096-568A-28237 Sequence 28237, A
989 28 50.9 961 9 US-10-831-997-4 Sequence 4, Appl1
990 28 50.9 963 11 US-11-096-568A-31292 Sequence 31292, A
991 28 50.9 964 11 US-11-089-551A-30 Sequence 30, Appl
992 28 50.9 964 11 US-11-096-568A-31291 Sequence 31291, A
993 28 50.9 968 11 US-11-096-568A-28236 Sequence 28236, A
994 28 50.9 1011 9 US-10-877-346-127 Sequence 127, App
995 28 50.9 1011 9 US-10-330-773-924 Sequence 924, App
996 28 50.9 1099 11 US-11-213-326-10 Sequence 10, Appl
997 28 50.9 1139 11 US-11-096-568A-27582 Sequence 27582, A
998 28 50.9 1198 9 US-10-877-346-35 Sequence 35, Appl
999 28 50.9 1206 9 US-10-467-657-72 Sequence 72, Appl
1000 28 50.9 1206 9 US-10-467-657-3892 Sequence 3892, Ap

ALIGNMENTS

RESULT 1
US-10-530-253-13
; Sequence 13, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Casasetti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; PRIOR FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 13
; LENGTH: 151
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-10-530-253-13

Query Match 100.0%; Score 55; DB 9; Length 151;
Best Local Similarity 100.0%; Pred. No. 0.012;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 VCDKCLKFY 9
| | | | | | | | | |
Db 62 VCDKCLKFY 70

RESULT 2
US-11-206-138-3
; Sequence 3, Application US/11206138
; Publication No. US20060039919A1

; GENERAL INFORMATION:
; APPLICANT: Healthbanc Biotech CO, LTD.
; TITLE OF INVENTION: Fusion protein for inhibiting cervical cancer
; FILE REFERENCE: P7819/0613
; CURRENT APPLICATION NUMBER: US/11/206,138
; CURRENT FILING DATE: 2005-08-18
; NUMBER OF SEQ ID NOS: 14
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 3
; LENGTH: 158
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-11-206-138-3

Query Match 100.0%; Score 55; DB 11; Length 158;
Best Local Similarity 100.0%; Pred. No. 0.013;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 VCDKCLKFY 9
| | | | | | | | | |
Db 69 VCDKCLKFY 77

RESULT 3
US-10-530-253-1
; Sequence 1, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Casasetti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; PRIOR FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 1
; LENGTH: 248
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-10-530-253-1

Query Match 100.0%; Score 55; DB 9; Length 248;
Best Local Similarity 100.0%; Pred. No. 0.019;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 VCDKCLKFY 9
| | | | | | | | | |
Db 62 VCDKCLKFY 70

RESULT 4
US-10-530-253-7
; Sequence 7, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Casasetti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929

PRIOR FILING DATE: 2002-10-03
NUMBER OF SEQ ID NOS: 65
SOFTWARE: PatentIn version 3.1
SEQ ID NO 7
LENGTH: 248
TYPE: PRT
ORGANISM: Human papillomavirus type 16
US-10-530-253-7

Query Match 100.0%; Score 55; DB 9; Length 248;
Best Local Similarity 100.0%; Pred. No. 0.019;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 VCDKCLKPY 9
DB 159 VCDKCLKPY 167

RESULT 5
US-11-192-923A-2
Sequence 2, Application US/11192923A
Publication No. US20060018928A1
GENERAL INFORMATION:
APPLICANT: PANG, XIAOWU
TITLE OF INVENTION: VIRUS-LIKE PARTICLE CONTAINING A DENGUE VIRUS
FILE REFERENCE: 116620-003
CURRENT APPLICATION NUMBER: US/11/192,923A
CURRENT FILING DATE: 2005-07-29
PRIOR APPLICATION NUMBER: CN 03115272.4
PRIOR FILING DATE: 2003-01-30
PRIOR APPLICATION NUMBER: CN 03115273.2
PRIOR FILING DATE: 2003-01-30
NUMBER OF SEQ ID NOS: 45
SOFTWARE: PatentIn Ver. 3.3
SEQ ID NO 2
LENGTH: 256
TYPE: PRT
ORGANISM: Human papillomavirus
US-11-192-923A-2

Query Match 100.0%; Score 55; DB 11; Length 256;
Best Local Similarity 100.0%; Pred. No. 0.019;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 VCDKCLKPY 9
DB 167 VCDKCLKPY 175

RESULT 6
US-10-530-061-501
Sequence 501, Application US/10530061
Publication No. US20060079453A1
GENERAL INFORMATION:
APPLICANT: SIDNEY, JOHN
APPLICANT: SOUTHWOOD, SCOTT
APPLICANT: SETTE, ALESSANDRO
TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
FILE REFERENCE: 2060.033US02/EKS/M-W
CURRENT APPLICATION NUMBER: US/10/530,061
CURRENT FILING DATE: 2005-04-04
PRIOR APPLICATION NUMBER: PCT/US03/31308
PRIOR FILING DATE: 2003-10-03
PRIOR APPLICATION NUMBER: 60/416,207
PRIOR FILING DATE: 2002-10-03
PRIOR APPLICATION NUMBER: 60/417,269
PRIOR FILING DATE: 2002-10-08
NUMBER OF SEQ ID NOS: 2503
SOFTWARE: PatentIn version 3.3
SEQ ID NO 501
LENGTH: 10
TYPE: PRT

ORGANISM: Human papillomavirus
US-10-530-061-501

Query Match 92.7%; Score 51; DB 9; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.0059;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 CDKCLKPY 9
DB 3 CDKCLKPY 10

RESULT 7
US-10-530-061-502
Sequence 502, Application US/10530061
Publication No. US20060079453A1
GENERAL INFORMATION:
APPLICANT: SIDNEY, JOHN
APPLICANT: SOUTHWOOD, SCOTT
APPLICANT: SETTE, ALESSANDRO
TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
FILE REFERENCE: 2060.033US02/EKS/M-W
CURRENT APPLICATION NUMBER: US/10/530,061
CURRENT FILING DATE: 2005-04-04
PRIOR APPLICATION NUMBER: PCT/US03/31308
PRIOR FILING DATE: 2003-10-03
PRIOR APPLICATION NUMBER: 60/416,207
PRIOR FILING DATE: 2002-10-03
PRIOR APPLICATION NUMBER: 60/417,269
PRIOR FILING DATE: 2002-10-08
NUMBER OF SEQ ID NOS: 2503
SOFTWARE: PatentIn version 3.3
SEQ ID NO 502
LENGTH: 10
TYPE: PRT
ORGANISM: Human papillomavirus
US-10-530-061-502

Query Match 87.3%; Score 48; DB 9; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.019;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 VCDKCLKPY 8
DB 2 VCDKCLKPY 9

RESULT 8
US-10-530-061-781
Sequence 781, Application US/10530061
Publication No. US20060079453A1
GENERAL INFORMATION:
APPLICANT: SIDNEY, JOHN
APPLICANT: SOUTHWOOD, SCOTT
APPLICANT: SETTE, ALESSANDRO
TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
FILE REFERENCE: 2060.033US02/EKS/M-W
CURRENT APPLICATION NUMBER: US/10/530,061
CURRENT FILING DATE: 2005-04-04
PRIOR APPLICATION NUMBER: PCT/US03/31308
PRIOR FILING DATE: 2003-10-03
PRIOR APPLICATION NUMBER: 60/416,207
PRIOR FILING DATE: 2002-10-03
PRIOR APPLICATION NUMBER: 60/417,269
PRIOR FILING DATE: 2002-10-08
NUMBER OF SEQ ID NOS: 2503
SOFTWARE: PatentIn version 3.3
SEQ ID NO 781
LENGTH: 11
TYPE: PRT
ORGANISM: Human papillomavirus
US-10-530-061-781

Query Match 87.3%; Score 48; DB 9; Length 11;
Best Local Similarity 100.0%; Pred. No. 0.021;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 VCDKCLKFY 8
|||
Db 4 VCDKCLKFY 11

RESULT 9
US-10-530-253-18
; Sequence 18, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Casaretti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 18
; LENGTH: 149
; TYPE: PRT
; ORGANISM: Human papillomavirus type 35
US-10-530-253-18

Query Match 83.6%; Score 46; DB 9; Length 149;
Best Local Similarity 88.9%; Pred. No. 0.42;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 VCDKCLKFY 9
|||
Db 62 VCDKCLKFY 70

RESULT 10
US-10-530-253-16
; Sequence 16, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Casaretti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 16
; LENGTH: 149
; TYPE: PRT
; ORGANISM: Human papillomavirus type 31
US-10-530-253-16

Query Match 81.8%; Score 45; DB 9; Length 149;
Best Local Similarity 77.8%; Pred. No. 0.63;
Matches 7; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 VCDKCLKFY 9

Db 62 VCDKCLKFY 70

RESULT 11
US-10-530-253-3
; Sequence 3, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Casaretti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 3
; LENGTH: 248
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-10-530-253-3

Query Match 78.2%; Score 43; DB 9; Length 248;
Best Local Similarity 88.9%; Pred. No. 2.1;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 VCDKCLKFY 9
|||
Db 62 VCDKCLKFY 70

RESULT 12
US-10-530-253-5
; Sequence 5, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Casaretti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 5
; LENGTH: 248
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-10-530-253-5

Query Match 78.2%; Score 43; DB 9; Length 248;
Best Local Similarity 88.9%; Pred. No. 2.1;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 VCDKCLKFY 9
|||
Db 62 VCDKCLKFY 70

RESULT 13

```
US-10-530-253-9
; Sequence 9, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Casasetti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 9
; LENGTH: 248
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-10-530-253-9

Query Match      78.2%; Score 43; DB 9; Length 248;
Best Local Similarity 88.9%; Pred. No. 2.1;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 VCDKCLKFY 9
DB 159 VGDCKCLKFY 167

RESULT 14
US-10-530-253-11
; Sequence 11, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Casasetti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 11
; LENGTH: 248
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-10-530-253-11

Query Match      78.2%; Score 43; DB 9; Length 248;
Best Local Similarity 88.9%; Pred. No. 2.1;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 VCDKCLKFY 9
DB 159 VGDCKCLKFY 167

RESULT 15
US-10-530-061-603
; Sequence 603, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
```

```
APPLICANT: SOUTHWOOD, SCOTT
APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.0330502/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 603
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-603

Query Match      76.4%; Score 42; DB 9; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.9e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 VCDKCLK 7
DB 3 VCDKCLK 9

RESULT 16
US-10-506-454-517
; Sequence 517, Application US/10506454
; Publication No. US2006006836A1
; GENERAL INFORMATION:
; APPLICANT: Slesarev, Alex I
; APPLICANT: Mezhevaeva, Katja V
; APPLICANT: Polushin, Nikolai N
; APPLICANT: Shcherbinina, Olga V
; APPLICANT: Shakhova, Vera V
; APPLICANT: Mal'kh, Andrei G
; APPLICANT: Kozayavkin, Sergei A
; TITLE OF INVENTION: The Complete Genome and Protein Sequences of the Hyperthermophile
; TITLE OF INVENTION: Methanopyrus Kandleri AV19 and Monophyly of Archaeal Methanogens
; FILE REFERENCE: FID001
; CURRENT APPLICATION NUMBER: US/10/506,454
; CURRENT FILING DATE: 2004-08-31
; PRIOR APPLICATION NUMBER: PCT/US03/06664
; PRIOR FILING DATE: 2003-03-04
; PRIOR APPLICATION NUMBER: 60/361,742
; PRIOR FILING DATE: 2002-03-04
; NUMBER OF SEQ ID NOS: 1722
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 517
; LENGTH: 354
; TYPE: PRT
; ORGANISM: Methanopyrus kandleri
US-10-506-454-517

Query Match      72.7%; Score 40; DB 9; Length 354;
Best Local Similarity 62.5%; Pred. No. 9.5;
Matches 5; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY 1 VCDKCLKF 8
DB 135 LCDRCMKF 142

RESULT 17
US-10-530-061-604
; Sequence 604, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
```

APPLICANT: SIDNEY, JOHN
APPLICANT: SOUTHWOOD, SCOTT
APPLICANT: SETTE, ALESSANDRO
TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
FILE REFERENCE: 2060.03US02/EKS/M-M
CURRENT FILING DATE: 2005-04-04
PRIOR APPLICATION NUMBER: US/10/530,061
PRIOR FILING DATE: 2003-10-03
PRIOR APPLICATION NUMBER: PCT/US03/31308
PRIOR FILING DATE: 2002-10-03
PRIOR FILING DATE: 2002-10-03
PRIOR APPLICATION NUMBER: 60/416,207
PRIOR FILING DATE: 2002-10-03
PRIOR APPLICATION NUMBER: 60/417,269
PRIOR FILING DATE: 2002-10-08
NUMBER OF SEQ ID NOS: 2503
SOFTWARE: PatentIn version 3.3
SEQ ID NO 604
LENGTH: 9
TYPE: PRT
ORGANISM: Human papillomavirus
US-10-530-061-604

Query Match 70.9%; Score 39; DB 9; Length 9;
Best Local Similarity 85.7%; Pred. No. 1.9e+05;
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 VCDKCLK 7
Db 3 VCDKCLK 9

RESULT 18
US-10-530-253-19
Sequence 19, Application US/10530253
Publication No. US20060014926A1
GENERAL INFORMATION:
APPLICANT: Casasetti, Maria C.
APPLICANT: Smith, Larry
APPLICANT: Jeffrey K. Pullen
APPLICANT: Susan P. McElhinney
TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
FILE REFERENCE: 00630/100M137-US2
CURRENT FILING DATE: 2005-04-04
PRIOR APPLICATION NUMBER: US/10/530,253
PRIOR FILING DATE: 2003-10-02
PRIOR APPLICATION NUMBER: PCT/US2003/031726
PRIOR FILING DATE: 2002-10-03
PRIOR APPLICATION NUMBER: US 60/415,929
NUMBER OF SEQ ID NOS: 65
SOFTWARE: PatentIn version 3.1
SEQ ID NO 19
LENGTH: 158
TYPE: PRT
ORGANISM: Human papillomavirus type 39
US-10-530-253-19

Query Match 69.1%; Score 38; DB 9; Length 158;
Best Local Similarity 62.5%; Pred. No. 11;
Matches 5; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 2 CDKCLKFY 9
Db 65 CQSCIKFY 72

RESULT 19
US-10-530-253-26
Sequence 26, Application US/10530253
Publication No. US20060014926A1
GENERAL INFORMATION:
APPLICANT: Casasetti, Maria C.
APPLICANT: Smith, Larry
APPLICANT: Jeffrey K. Pullen
APPLICANT: Susan P. McElhinney

TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
FILE REFERENCE: 00630/100M137-US2
CURRENT APPLICATION NUMBER: US/10/530,253
CURRENT FILING DATE: 2005-04-04
PRIOR APPLICATION NUMBER: PCT/US2003/031726
PRIOR FILING DATE: 2003-10-02
PRIOR APPLICATION NUMBER: US 60/415,929
PRIOR FILING DATE: 2002-10-03
NUMBER OF SEQ ID NOS: 65
SOFTWARE: PatentIn version 3.1
SEQ ID NO 26
LENGTH: 158
TYPE: PRT
ORGANISM: Human papillomavirus type 68
US-10-530-253-26

Query Match 69.1%; Score 38; DB 9; Length 158;
Best Local Similarity 62.5%; Pred. No. 11;
Matches 5; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 2 CDKCLKFY 9
Db 65 CQSCIKFY 72

RESULT 20
US-10-530-253-21
Sequence 21, Application US/10530253
Publication No. US20060014926A1
GENERAL INFORMATION:
APPLICANT: Casasetti, Maria C.
APPLICANT: Smith, Larry
APPLICANT: Jeffrey K. Pullen
APPLICANT: Susan P. McElhinney
TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
FILE REFERENCE: 00630/100M137-US2
CURRENT FILING DATE: 2005-04-04
PRIOR APPLICATION NUMBER: US/10/530,253
PRIOR FILING DATE: 2003-10-02
PRIOR APPLICATION NUMBER: PCT/US2003/031726
PRIOR FILING DATE: 2002-10-03
PRIOR APPLICATION NUMBER: US 60/415,929
NUMBER OF SEQ ID NOS: 65
SOFTWARE: PatentIn version 3.1
SEQ ID NO 21
LENGTH: 151
TYPE: PRT
ORGANISM: Human papillomavirus type 51
US-10-530-253-21

Query Match 67.3%; Score 37; DB 9; Length 151;
Best Local Similarity 66.7%; Pred. No. 15;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 VCDKCLKFY 9
Db 62 VCKQCLLFY 70

RESULT 21
US-11-188-298-3155
Sequence 3155, Application US/11188298
Publication No. US20060075522A1
GENERAL INFORMATION:
APPLICANT: Abad, Mark S. et al.
TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
FILE REFERENCE: 38-21(53452)B
CURRENT FILING DATE: 2005-07-22
PRIOR APPLICATION NUMBER: 60/552,978
PRIOR FILING DATE: 2004-07-31
NUMBER OF SEQ ID NOS: 22569
SEQ ID NO 3155

LENGTH: 257
TYPE: PRT
ORGANISM: Trifolium aestivum
US-11-188-298-3155

Query Match 67.3%; Score 37; DB 11; Length 257;
Best Local Similarity 75.0%; Pred. No. 24;
Matches 6; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2 CDKCLKY 9
DB 208 CDKCAKRY 215

RESULT 22
US-11-188-298-1735
Sequence 1735, Application US/11188298
Publication No. US20060075522A1
GENERAL INFORMATION:
APPLICANT: Adad, Mark S. et al.
TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
FILE REFERENCE: 38-21(53452)B
CURRENT APPLICATION NUMBER: US/11/188,298
PRIOR FILING DATE: 2005-07-22
PRIOR APPLICATION NUMBER: 60/592,978
PRIOR FILING DATE: 2004-07-31
NUMBER OF SEQ ID NOS: 22569
SEQ ID NO 1735
LENGTH: 276
TYPE: PRT
ORGANISM: Trifolium aestivum
FEATURE:
NAME/KEY: unsure
LOCATION: (1)-(276)
OTHER INFORMATION: unsure at all xaa locations
US-11-188-298-1735

Query Match 67.3%; Score 37; DB 11; Length 276;
Best Local Similarity 75.0%; Pred. No. 25;
Matches 6; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2 CDKCLKY 9
DB 159 CDKCAKRY 166

RESULT 23
US-11-110-082-32
Sequence 32, Application US/11110082
Publication No. US2005026558A1
GENERAL INFORMATION:
APPLICANT: Demmer, Jerroen
APPLICANT: Hall, Claire
APPLICANT: Norris, Michael Geoffrey
APPLICANT: Saulsbury, Keith Martin
TITLE OF INVENTION: Compositions Isolated from Forage
TITLE OF INVENTION: Grasses and methods for their use.
FILE REFERENCE: 11000.1074Uc1
CURRENT APPLICATION NUMBER: US/11/110,082
CURRENT FILING DATE: 2005-04-19
PRIOR APPLICATION NUMBER: 60/563,723
PRIOR FILING DATE: 2004-04-20
PRIOR APPLICATION NUMBER: 10/655,799
PRIOR FILING DATE: 2003-09-05
PRIOR APPLICATION NUMBER: 60/408,782
PRIOR FILING DATE: 2002-09-05
NUMBER OF SEQ ID NOS: 40
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 32
LENGTH: 530
TYPE: PRT
ORGANISM: Lolium perenne
US-11-110-082-32

Query Match 67.3%; Score 37; DB 11; Length 530;
Best Local Similarity 75.0%; Pred. No. 44;
Matches 6; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2 CDKCLKY 9
DB 144 CDKCAKRY 151

RESULT 24
US-11-072-175-185
Sequence 185, Application US/11072175
Publication No. US20060029944A1
GENERAL INFORMATION:
APPLICANT: Bristol-Myers Squibb Company
TITLE OF INVENTION: IDENTIFICATION OF GENES FOR PREDICTING ACTIVITY OF COMPOUNDS THAT
TITLE OF INVENTION: INTERACT WITH AND/OR MODULATE PROTEIN TYROSINE KINASES AND/OR
TITLE OF INVENTION: PROTEIN TYROSINE KINASE PATHWAYS IN BREAST CELLS
FILE REFERENCE: D0273A CIP
CURRENT APPLICATION NUMBER: US/11/072,175
CURRENT FILING DATE: 2005-03-05
PRIOR APPLICATION NUMBER: US 60/406,385
PRIOR FILING DATE: 2002-08-27
PRIOR APPLICATION NUMBER: US 10/648,593
PRIOR FILING DATE: 2003-08-26
NUMBER OF SEQ ID NOS: 571
SOFTWARE: PatentIn version 3.2
SEQ ID NO 185
LENGTH: 1609
TYPE: PRT
ORGANISM: Homo sapiens
US-11-072-175-185

Query Match 67.3%; Score 37; DB 11; Length 1609;
Best Local Similarity 62.5%; Pred. No. 1.1e+02;
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 2 CDKCLKY 9
DB 316 CDKCLPF 323

RESULT 25
US-10-469-469-252
Sequence 252, Application US/10469469
Publication No. US20060079493A1
GENERAL INFORMATION:
APPLICANT: FRITZ, LAWRENCE C.
APPLICANT: BORROWS, FRANCIS J.
TITLE OF INVENTION: METHODS FOR TREATING GENETICALLY-DEFINED PROLIFERATIVE
TITLE OF INVENTION: DISORDERS WITH HSP90 INHIBITORS
FILE REFERENCE: CON-0010-USN
CURRENT APPLICATION NUMBER: US/10/469,469
CURRENT FILING DATE: 2003-08-27
PRIOR APPLICATION NUMBER: PCT/US02/06518
PRIOR FILING DATE: 2002-03-01
PRIOR APPLICATION NUMBER: 60/272,751
PRIOR FILING DATE: 2001-03-01
NUMBER OF SEQ ID NOS: 330
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 252
LENGTH: 2442
TYPE: PRT
ORGANISM: Homo sapiens
US-10-469-469-252

Query Match 67.3%; Score 37; DB 9; Length 2442;
Best Local Similarity 85.7%; Pred. No. 1.6e+02;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 VCDKCLK 7
DB 1111111

Db 1307 VCDNCLK 1313

RESULT 26
US-11-154-293-4
; Sequence 4, Application US/11154293
; Publication No. US20060084085A1
; GENERAL INFORMATION:
; APPLICANT: PRESIDENT AND FELLOWS OF HARVARD COLLEGE
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR MODULATING BAX-MEDIATED
; FILE REFERENCE: HMV-095.01
; CURRENT APPLICATION NUMBER: US/11/154,293
; PRIOR FILING DATE: 2005-06-16
; PRIOR APPLICATION NUMBER: 60/580,169
; NUMBER OF SEQ ID NOS: 58
; SOFTWARE: PatentIn Ver. 3.3
; SEQ ID NO 4
; LENGTH: 2442
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-154-293-4

Query Match 67.3%; Score 37; DB 11; Length 2442;
Best Local Similarity 85.7%; Pred. No. 1.6e+02;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 VCDKCLK 7
Db 1307 VCDNCLK 1313

RESULT 27
US-10-530-061-473
; Sequence 473, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.033US02/EKS/J-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 473
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-473

Query Match 65.5%; Score 36; DB 9; Length 10;
Best Local Similarity 62.5%; Pred. No. 2.2;
Matches 5; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Qy 2 CDKCLKFY 9
Db 3 CHKCIDFY 10

RESULT 28
US-10-530-061-567
; Sequence 567, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:

; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.033US02/EKS/J-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 567
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-567

Query Match 65.5%; Score 36; DB 9; Length 10;
Best Local Similarity 62.5%; Pred. No. 2.2;
Matches 5; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Qy 2 CDKCLKFY 9
Db 3 CHKCIDFY 10

RESULT 29
US-11-096-568A-1034
; Sequence 1034, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
; APPLICANT: Alexandrov, Nikolai et al.
; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
; FILE REFERENCE: 2750-1592PUS2
; CURRENT APPLICATION NUMBER: US/11/096,568A
; CURRENT FILING DATE: 2005-04-01
; NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 1034
; LENGTH: 67
; TYPE: PRT
; ORGANISM: Zea mays subsp. mays
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)..(67)
; OTHER INFORMATION: Ceres Seq. ID no. 15218620
US-11-096-568A-1034

Query Match 65.5%; Score 36; DB 11; Length 67;
Best Local Similarity 62.5%; Pred. No. 11;
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 2 CDKCLKFY 9
Db 37 CDQCLKIH 44

RESULT 30
US-11-096-568A-1033
; Sequence 1033, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
; APPLICANT: Alexandrov, Nikolai et al.
; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
; FILE REFERENCE: 2750-1592PUS2
; CURRENT APPLICATION NUMBER: US/11/096,568A
; CURRENT FILING DATE: 2005-04-01
; NUMBER OF SEQ ID NOS: 34471

```

; SEQ ID NO 1033
; LENGTH: 87
; TYPE: PRT
; ORGANISM: Zea mays subsp. mays
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)..(87)
; OTHER INFORMATION: Ceres Seq. ID no. 15218619
US-11-096-568A-1033

Query Match          65.5%; Score 36; DB 11; Length 87;
Best Local Similarity 62.5%; Pred. No. 14;
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY      2 CDKCLKFY 9
      |||:|
Db      57 CDCLKIRH 64

RESULT 31
US-10-530-253-15
; Sequence 15, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Casabetti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; PRIOR FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: Patentin version 3.1
; SEQ ID NO 15
; LENGTH: 158
; TYPE: PRT
; ORGANISM: Human papillomavirus type 18
US-10-530-253-15

Query Match          65.5%; Score 36; DB 9; Length 158;
Best Local Similarity 62.5%; Pred. No. 23;
Matches 5; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY      2 CDKCLKFY 9
      |||:|
Db      65 CHKCIDFY 72

RESULT 32
US-10-530-253-20
; Sequence 20, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Casabetti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; PRIOR FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: Patentin version 3.1
; SEQ ID NO 20
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; LENGTH: 158
; TYPE: PRT
; ORGANISM: Human papillomavirus type 45
US-10-530-253-20

Query Match          65.5%; Score 36; DB 9; Length 158;
Best Local Similarity 62.5%; Pred. No. 23;
Matches 5; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY      2 CDKCLKFY 9
      |||:|
Db      65 CHKCIDFY 72

RESULT 33
US-11-188-298-3554
; Sequence 3554, Application US/11188298
; Publication No. US20060075522A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
; FILE REFERENCE: 38-21(53452)B
; CURRENT APPLICATION NUMBER: US/11/188,298
; PRIOR FILING DATE: 2005-07-22
; PRIOR APPLICATION NUMBER: 60/592,978
; PRIOR FILING DATE: 2004-07-31
; NUMBER OF SEQ ID NOS: 22569
; SEQ ID NO 3554
; LENGTH: 219
; TYPE: PRT
; ORGANISM: Trifolium aestivum
US-11-188-298-3554

Query Match          65.5%; Score 36; DB 11; Length 219;
Best Local Similarity 75.0%; Pred. No. 31;
Matches 6; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      2 CDKCLKFY 9
      |||:|
Db      170 CDKCSKRY 177

RESULT 34
US-11-188-298-1169
; Sequence 1169, Application US/11188298
; Publication No. US20060075522A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
; FILE REFERENCE: 38-21(53452)B
; CURRENT APPLICATION NUMBER: US/11/188,298
; PRIOR FILING DATE: 2005-07-22
; PRIOR APPLICATION NUMBER: 60/592,978
; PRIOR FILING DATE: 2004-07-31
; NUMBER OF SEQ ID NOS: 22569
; SEQ ID NO 1169
; LENGTH: 304
; TYPE: PRT
; ORGANISM: Zea mays
US-11-188-298-1169

Query Match          65.5%; Score 36; DB 11; Length 304;
Best Local Similarity 75.0%; Pred. No. 40;
Matches 6; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      2 CDKCLKFY 9
      |||:|
Db      152 CDKCSKRY 159

RESULT 35
US-11-188-298-22385
; Sequence 22385, Application US/11188298
```

```
; Publication No. US20060075522A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
; FILE REFERENCE: 38-21(53452)B
; CURRENT APPLICATION NUMBER: US/11/188,298
; CURRENT FILING DATE: 2005-07-22
; PRIOR APPLICATION NUMBER: 60/592,978
; PRIOR FILING DATE: 2004-07-31
; NUMBER OF SEQ ID NOS: 22569
; SEQ ID NO 22385
; LENGTH: 329
; TYPE: PRT
; ORGANISM: Zea mays
US-11-188-298-22385

Query Match      65.5% Score 36; DB 11; Length 329;
Best Local Similarity 75.0% Pred. No. 43;
Matches 6; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy      2 CDKCLKXY 9
Db      163 CDKCSKRY 170

RESULT 36
US-11-188-298-5818
; Sequence 5818, Application US/11188298
; Publication No. US20060075522A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
; FILE REFERENCE: 38-21(53452)B
; CURRENT APPLICATION NUMBER: US/11/188,298
; CURRENT FILING DATE: 2005-07-22
; PRIOR APPLICATION NUMBER: 60/592,978
; PRIOR FILING DATE: 2004-07-31
; NUMBER OF SEQ ID NOS: 22569
; SEQ ID NO 5818
; LENGTH: 363
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)-(363)
; OTHER INFORMATION: unsure at all Xaa locations
US-11-188-298-5818

Query Match      65.5% Score 36; DB 11; Length 363;
Best Local Similarity 75.0% Pred. No. 47;
Matches 6; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy      2 CDKCLKXY 9
Db      151 CDKCSKRY 158

RESULT 37
US-11-188-298-3715
; Sequence 3715, Application US/11188298
; Publication No. US20060075522A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
; FILE REFERENCE: 38-21(53452)B
; CURRENT APPLICATION NUMBER: US/11/188,298
; CURRENT FILING DATE: 2005-07-22
; PRIOR APPLICATION NUMBER: 60/592,978
; PRIOR FILING DATE: 2004-07-31
; NUMBER OF SEQ ID NOS: 22569
; SEQ ID NO 3715
; LENGTH: 405
; TYPE: PRT
```

```
; ORGANISM: Oryza sativa (japonica cultivar-group)
US-11-188-298-3715

Query Match      65.5% Score 36; DB 11; Length 405;
Best Local Similarity 75.0% Pred. No. 52;
Matches 6; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy      2 CDKCLKXY 9
Db      176 CDKCSKRY 183

RESULT 38
US-11-188-298-10922
; Sequence 10922, Application US/11188298
; Publication No. US20060075522A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
; FILE REFERENCE: 38-21(53452)B
; CURRENT APPLICATION NUMBER: US/11/188,298
; CURRENT FILING DATE: 2005-07-22
; PRIOR APPLICATION NUMBER: 60/592,978
; PRIOR FILING DATE: 2004-07-31
; NUMBER OF SEQ ID NOS: 22569
; SEQ ID NO 10922
; LENGTH: 518
; TYPE: PRT
; ORGANISM: Oryza sativa
US-11-188-298-10922

Query Match      65.5% Score 36; DB 11; Length 518;
Best Local Similarity 75.0% Pred. No. 64;
Matches 6; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy      2 CDKCLKXY 9
Db      137 CDKCSKRY 144

RESULT 39
US-11-188-298-10418
; Sequence 10418, Application US/11188298
; Publication No. US20060075522A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
; FILE REFERENCE: 38-21(53452)B
; CURRENT APPLICATION NUMBER: US/11/188,298
; CURRENT FILING DATE: 2005-07-22
; PRIOR APPLICATION NUMBER: 60/592,978
; PRIOR FILING DATE: 2004-07-31
; NUMBER OF SEQ ID NOS: 22569
; SEQ ID NO 10418
; LENGTH: 519
; TYPE: PRT
; ORGANISM: Lycopersicon esculentum
US-11-188-298-10418

Query Match      65.5% Score 36; DB 11; Length 519;
Best Local Similarity 75.0% Pred. No. 64;
Matches 6; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy      2 CDKCLKXY 9
Db      144 CDKCSKRY 151

RESULT 40
US-11-188-298-7653
; Sequence 7653, Application US/11188298
; Publication No. US20060075522A1
; GENERAL INFORMATION:
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APPLICANT: Abad, Mark S. et al.
 TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
 FILE REFERENCE: 38-21(53452)B
 CURRENT APPLICATION NUMBER: US/11/188,298
 CURRENT FILING DATE: 2005-07-22
 PRIOR APPLICATION NUMBER: 60/592,978
 PRIOR FILING DATE: 2004-07-31
 NUMBER OF SEQ ID NOS: 22569
 SEQ ID NO 7653
 LENGTH: 522
 TYPE: PRT
 ORGANISM: Malus x domestica
 US-11-188-298-7653

Query Match 65.5%; Score 36; DB 11; Length 522;
 Best Local Similarity 75.0%; Pred. No. 64;
 Matches 6; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2 CDKCLKFY 9
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 Db 175 CDKCSKRY 182

RESULT 41
 US-11-188-298-2101
 Sequence 2101, Application US/11188298
 Publication No. US20060075522A1
 GENERAL INFORMATION:
 APPLICANT: Abad, Mark S. et al.
 TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
 FILE REFERENCE: 38-21(53452)B
 CURRENT APPLICATION NUMBER: US/11/188,298
 CURRENT FILING DATE: 2005-07-22
 PRIOR APPLICATION NUMBER: 60/592,978
 PRIOR FILING DATE: 2004-07-31
 NUMBER OF SEQ ID NOS: 22569
 SEQ ID NO 2101
 LENGTH: 543
 TYPE: PRT
 ORGANISM: Oryza sativa
 US-11-188-298-2101

Query Match 65.5%; Score 36; DB 11; Length 543;
 Best Local Similarity 75.0%; Pred. No. 66;
 Matches 6; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2 CDKCLKFY 9
 |||||
 Db 122 CDKCSKRY 129

RESULT 42
 US-11-188-298-4843
 Sequence 4843, Application US/11188298
 Publication No. US20060075522A1
 GENERAL INFORMATION:
 APPLICANT: Abad, Mark S. et al.
 TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
 FILE REFERENCE: 38-21(53452)B
 CURRENT APPLICATION NUMBER: US/11/188,298
 CURRENT FILING DATE: 2005-07-22
 PRIOR APPLICATION NUMBER: 60/592,978
 PRIOR FILING DATE: 2004-07-31
 NUMBER OF SEQ ID NOS: 22569
 SEQ ID NO 4843
 LENGTH: 552
 TYPE: PRT
 ORGANISM: Oryza sativa
 FEATURE:
 NAME/KEY: unsure
 LOCATION: (1)..(552)
 OTHER INFORMATION: unsure at all Xaa locations
 US-11-188-298-4843

Query Match 65.5%; Score 36; DB 11; Length 552;
 Best Local Similarity 75.0%; Pred. No. 67;
 Matches 6; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2 CDKCLKFY 9
 |||||
 Db 154 CDKCSKRY 161

RESULT 43
 US-11-096-568A-30785
 Sequence 30785, Application US/11096568A
 Publication No. US20060048240A1
 GENERAL INFORMATION:
 APPLICANT: Alexandrov, Nikolai et al.
 TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
 FILE REFERENCE: 2750-1592PUS2
 CURRENT APPLICATION NUMBER: US/11/096,568A
 CURRENT FILING DATE: 2005-04-01
 NUMBER OF SEQ ID NOS: 34471
 SEQ ID NO 30785
 LENGTH: 1661
 TYPE: PRT
 ORGANISM: Arabidopsis thaliana
 FEATURE:
 NAME/KEY: misc.feature
 LOCATION: (1)..(1661)
 OTHER INFORMATION: Ceres Seq. ID no. 4972410
 US-11-096-568A-30785

Query Match 65.5%; Score 36; DB 11; Length 1661;
 Best Local Similarity 85.7%; Pred. No. 1.7e+02;
 Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 3 DKCLKFY 9
 |||||
 Db 897 DKCLPFY 903

RESULT 44
 US-11-096-568A-30784
 Sequence 30784, Application US/11096568A
 Publication No. US20060048240A1
 GENERAL INFORMATION:
 APPLICANT: Alexandrov, Nikolai et al.
 TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
 FILE REFERENCE: 2750-1592PUS2
 CURRENT APPLICATION NUMBER: US/11/096,568A
 CURRENT FILING DATE: 2005-04-01
 NUMBER OF SEQ ID NOS: 34471
 SEQ ID NO 30784
 LENGTH: 1713
 TYPE: PRT
 ORGANISM: Arabidopsis thaliana
 FEATURE:
 NAME/KEY: misc.feature
 LOCATION: (1)..(1713)
 OTHER INFORMATION: Ceres Seq. ID no. 4972409
 US-11-096-568A-30784

Query Match 65.5%; Score 36; DB 11; Length 1713;
 Best Local Similarity 85.7%; Pred. No. 1.8e+02;
 Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 3 DKCLKFY 9
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 Db 949 DKCLPFY 955

RESULT 45

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US-11-096-568A-30783
; Sequence 30783, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
; APPLICANT: Alexandrov, Nikolai et al.
; TITLE OF INVENTION: Sequence-determined DNA Fragments and Corresponding Polypeptides
; FILE REFERENCE: 2750-1592PUS2
; CURRENT APPLICATION NUMBER: US/11/096,568A
; CURRENT FILING DATE: 2005-04-01
; NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 30783
; LENGTH: 1791
; TYPE: PRT
; ORGANISM: Arabidopsis thaliana
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1)-(1791)
; OTHER INFORMATION: Ceres Seq. ID no. 4972408
US-11-096-568A-30783

Query Match      65.5%; Score 36; DB 11; Length 1791;
Best Local Similarity 85.7%; Pred. No. 1.8e+02;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      3 DKCLKPY 9
DB      1027 DKCLPFY 1033

RESULT 46
US-10-506-454-449
; Sequence 449, Application US/10506454
; Publication No. US2006006836A1
; GENERAL INFORMATION:
; APPLICANT: Mezhevaya, Alexi I
; APPLICANT: Polushin, Nikolai N
; APPLICANT: Shcherbina, Olga V
; APPLICANT: Shakhova, Vera V
; APPLICANT: Malykh, Andrei G
; APPLICANT: Kozayavkin, Sergei A
; TITLE OF INVENTION: The Complete Genome and Protein Sequences of the Hyperthermophile
; TITLE OF INVENTION: Methanopyrus Kandleri AV19 and Monophyly of Archaeal Methanogens
; FILE REFERENCE: FID001
; CURRENT APPLICATION NUMBER: US/10/506,454
; PRIOR APPLICATION NUMBER: PCT/US03/06664
; PRIOR FILING DATE: 2003-03-04
; PRIOR APPLICATION NUMBER: 60/361,742
; PRIOR FILING DATE: 2002-03-04
; NUMBER OF SEQ ID NOS: 1722
; SOFTWARE: Patentin version 3.2
; SEQ ID NO 449
; LENGTH: 171
; TYPE: PRT
; ORGANISM: Methanopyrus kandleri
US-10-506-454-449

Query Match      63.6%; Score 35; DB 9; Length 171;
Best Local Similarity 62.5%; Pred. No. 37;
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY      1 VCDKCLKF 8
DB      30 VCEBCKAF 37

RESULT 47
US-11-188-298-1452
; Sequence 1452, Application US/11188298
; Publication No. US20060075522A1
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; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
; FILE REFERENCE: 38-21(53452)B
; CURRENT APPLICATION NUMBER: US/11/188,298
; CURRENT FILING DATE: 2005-07-22
; PRIOR APPLICATION NUMBER: 60/592,978
; PRIOR FILING DATE: 2004-07-31
; NUMBER OF SEQ ID NOS: 22569
; SEQ ID NO 1452
; LENGTH: 239
; TYPE: PRT
; ORGANISM: Zea mays
US-11-188-298-1452

Query Match      63.6%; Score 35; DB 11; Length 239;
Best Local Similarity 75.0%; Pred. No. 49;
Matches 6; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      2 CDKCLKPY 9
DB      148 CDKNKRY 155

RESULT 48
US-11-264-096-2052
; Sequence 2052, Application US/11264096
; Publication No. US20060084794A1
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: Albumin Fusion Proteins
; FILE REFERENCE: PFS46D1
; CURRENT APPLICATION NUMBER: US/11/264,096
; CURRENT FILING DATE: 2005-11-02
; PRIOR APPLICATION NUMBER: 09/833,245
; PRIOR FILING DATE: 2001-04-12
; PRIOR APPLICATION NUMBER: 60/229,358
; PRIOR FILING DATE: 2000-04-12
; PRIOR APPLICATION NUMBER: 60/256,931
; PRIOR FILING DATE: 2000-12-21
; PRIOR APPLICATION NUMBER: 60/199,384
; PRIOR FILING DATE: 2000-04-25
; NUMBER OF SEQ ID NOS: 2267
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 2052
; LENGTH: 286
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-264-096-2052

Query Match      63.6%; Score 35; DB 11; Length 286;
Best Local Similarity 83.3%; Pred. No. 57;
Matches 5; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY      1 VCDKCL 6
DB      145 VCDKCI 150

RESULT 49
US-11-264-096-2051
; Sequence 2051, Application US/11264096
; Publication No. US20060084794A1
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: Albumin Fusion Proteins
; FILE REFERENCE: PFS46D1
; CURRENT APPLICATION NUMBER: US/11/264,096
; CURRENT FILING DATE: 2005-11-02
; PRIOR APPLICATION NUMBER: 09/833,245
; PRIOR FILING DATE: 2001-04-12
; PRIOR APPLICATION NUMBER: 60/229,358
; PRIOR FILING DATE: 2000-04-12
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;; PRIOR APPLICATION NUMBER: 60/256, 931
;; PRIOR FILING DATE: 2000-12-21
;; PRIOR APPLICATION NUMBER: 60/199, 384
;; PRIOR FILING DATE: 2000-04-25
;; NUMBER OF SEQ ID NOS: 2267
;; SOFTWARE: PatentIn Ver. 2.1
;; SEQ ID NO: 2051
;; LENGTH: 298
;; TYPE: PRT
;; ORGANISM: Homo sapiens
US-11-264-096-2051

Query Match 63.6%; Score 35; DB 11; Length 298;
Best Local Similarity 83.3%; Pred. No. 59;
Matches 5; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 VCDKCL 6
DB 145 VCDKCL 150

RESULT 50
US-10-511-937-2626
; Sequence 2626, Application US/10511937
; Publication No. US2006008836A1
; GENERAL INFORMATION:
; APPLICANT: EXPRESSION DIAGNOSTICS, INC.
; APPLICANT: Wohlgemuth, Jay
; APPLICANT: Fry, Kirk
; APPLICANT: Woodward, Robert
; APPLICANT: Ly, Ngoc
; APPLICANT: Prentice, James
; APPLICANT: Morris, MacDonald
; APPLICANT: Rosenberg, Steven
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR DIAGNOSING
; TITLE OF INVENTION: AND MONITORING TRANSPLANT REJECTION
; FILE REFERENCE: 506612000104
; CURRENT FILING DATE: 2004-10-19
; PRIOR APPLICATION NUMBER: PCT/US2003/012946
; PRIOR FILING DATE: 2003-04-24
; PRIOR APPLICATION NUMBER: US 10/131,831
; PRIOR FILING DATE: 2002-04-24
; PRIOR APPLICATION NUMBER: US 10/325,899
; PRIOR FILING DATE: 2002-12-20
; NUMBER OF SEQ ID NOS: 3117
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO: 2626
; LENGTH: 332
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-511-937-2626

Query Match 63.6%; Score 35; DB 8; Length 332;
Best Local Similarity 44.4%; Pred. No. 65;
Matches 4; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

QY 1 VCDKCL 9
DB 294 LCDGCVK 302

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Title: US-08-170-344-48
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Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

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1	47	100.0	9	US-08-159-339A-229	Sequence 229, App
2	47	100.0	22	US-10-612-818-4	Sequence 4, Appl
3	47	100.0	158	US-09-980-523A-2	Sequence 2, Appl
4	47	100.0	162	US-08-316-239B-3	Sequence 3, Appl
5	47	100.0	162	US-08-316-239B-4	Sequence 4, Appl
6	47	100.0	172	US-08-860-165-12	Sequence 12, Appl
7	47	100.0	172	US-08-860-165-14	Sequence 14, Appl
8	47	100.0	172	US-09-359-382-12	Sequence 12, Appl
9	47	100.0	172	US-09-359-382-14	Sequence 14, Appl
10	47	100.0	243	US-09-462-993-1	Sequence 1, Appl
11	47	100.0	266	US-08-860-165-10	Sequence 10, Appl
12	47	100.0	266	US-09-359-382-10	Sequence 10, Appl
13	47	100.0	266	US-09-367-309A-1	Sequence 1, Appl
14	47	100.0	273	US-09-485-885-4	Sequence 4, Appl
15	47	100.0	292	US-09-485-885-10	Sequence 10, Appl
16	47	100.0	371	US-09-485-885-6	Sequence 6, Appl
17	47	100.0	390	US-09-485-885-14	Sequence 14, Appl
18	42	89.4	151	US-09-701-080C-18	Sequence 18, Appl
19	42	76.6	10	US-08-159-339A-75	Sequence 75, Appl
20	36	76.6	20	US-08-934-915-44	Sequence 44, Appl
21	36	76.6	20	US-08-934-915-163	Sequence 163, App
22	35	74.5	20	US-08-934-915-162	Sequence 162, App
23	35	74.5	54	US-09-270-767-39745	Sequence 39745, A
24	35	74.5	54	US-09-270-767-54962	Sequence 54962, A
25	35	74.5	604	US-09-134-000C-5828	Sequence 5828, Ap
26	35	74.5	688	US-08-221-817-19	Sequence 19, Appl
27	35	74.5	688	US-08-454-439-19	Sequence 19, Appl

28	74.5	688	4	PCT-US94-10487-19	Sequence 19, Appl
29	74.5	698	2	US-09-949-016-10644	Sequence 10644, A
30	72.3	112	2	US-09-107-532A-4977	Sequence 4977, Ap
31	70.2	97	2	US-09-248-796A-23345	Sequence 23345, A
32	70.2	206	2	US-09-248-796A-21349	Sequence 21349, A
33	70.2	215	2	US-09-134-000C-3778	Sequence 3778, Ap
34	70.2	236	2	US-09-134-000C-4716	Sequence 4716, Ap
35	70.2	325	2	US-09-583-110-3313	Sequence 3313, Ap
36	70.2	325	2	US-09-769-787-141	Sequence 141, App
37	70.2	340	2	US-09-270-767-43778	Sequence 43778, A
38	70.2	340	2	US-09-107-473-4173	Sequence 4173, Ap
39	70.2	1183	2	US-09-532-310B-5	Sequence 5, Appl
40	70.2	1439	2	US-09-134-000C-6133	Sequence 6133, Ap
41	68.1	51	1	US-08-418-893D-2	Sequence 2, Appl
42	68.1	132	2	US-09-248-796A-28037	Sequence 28037, A
43	68.1	289	2	US-09-248-796A-18661	Sequence 18661, A
44	68.1	338	2	US-09-107-532A-4349	Sequence 4349, Ap
45	68.1	421	2	US-09-248-796A-18642	Sequence 18642, A
46	68.1	478	2	US-09-543-681A-5186	Sequence 5186, Ap
47	68.1	529	2	US-09-252-991A-31878	Sequence 31878, A
48	68.1	2337	1	US-08-354-973-1	Sequence 1, Appl
49	66.0	9	2	US-08-159-339A-137	Sequence 137, App
50	66.0	193	1	US-08-820-170A-4	Sequence 4, Appl
51	66.0	193	2	US-09-055-699-4	Sequence 4, Appl
52	66.0	193	2	US-09-273-565-4	Sequence 4, Appl
53	66.0	193	2	US-09-565-538-4	Sequence 4, Appl
54	66.0	193	2	US-09-661-468-4	Sequence 4, Appl
55	66.0	193	2	US-09-976-165-4	Sequence 4, Appl
56	66.0	194	2	US-09-270-767-36976	Sequence 36976, A
57	66.0	194	2	US-09-270-767-52193	Sequence 52193, A
58	66.0	206	2	US-09-270-767-58327	Sequence 58327, A
59	66.0	258	2	US-09-949-016-7845	Sequence 7845, Ap
60	66.0	269	2	US-09-538-092-336	Sequence 336, App
61	66.0	282	2	US-09-270-767-42902	Sequence 42902, A
62	66.0	303	2	US-10-360-101-263	Sequence 263, App
63	66.0	357	2	US-09-692-570-9	Sequence 9, Appl
64	66.0	400	2	US-09-248-796A-14786	Sequence 14786, A
65	66.0	429	2	US-09-949-016-9689	Sequence 9689, Ap
66	66.0	832	2	US-08-591-502B-60	Sequence 60, Appl
67	66.0	832	2	US-08-591-502B-62	Sequence 62, Appl
68	66.0	832	2	US-08-591-502B-63	Sequence 63, Appl
69	66.0	839	2	US-09-902-540-15096	Sequence 15096, A
70	63.8	11	2	US-09-667-365-500	Sequence 500, App
71	63.8	40	2	US-09-962-756-1707	Sequence 1707, Ap
72	63.8	46	2	US-09-471-276-1210	Sequence 1210, Ap
73	63.8	71	2	US-09-107-532A-6459	Sequence 6459, Ap
74	63.8	83	2	US-09-068-804-33	Sequence 33, Appl
75	63.8	84	2	US-09-489-039A-9844	Sequence 9844, Ap
76	63.8	88	2	US-09-248-796A-26472	Sequence 26472, A
77	63.8	121	2	US-10-104-047-2551	Sequence 2551, Ap
78	63.8	149	2	US-09-830-230A-281	Sequence 282, App
79	63.8	152	2	US-09-489-039A-13456	Sequence 13456, A
80	63.8	171	2	US-09-830-230A-281	Sequence 281, App
81	63.8	182	2	US-09-248-796A-16970	Sequence 16970, A
82	63.8	188	2	US-09-134-001C-4249	Sequence 4249, Ap
83	63.8	191	2	US-09-134-000C-6524	Sequence 6524, Ap
84	63.8	211	2	US-09-538-092-597	Sequence 597, App
85	63.8	224	2	US-09-107-532A-5301	Sequence 5301, Ap
86	63.8	244	2	US-08-944-483-74	Sequence 74, Appl
87	63.8	255	2	US-09-270-767-37186	Sequence 37186, A
88	63.8	255	2	US-09-270-767-52403	Sequence 52403, A
89	63.8	272	2	US-09-110-279-2290	Sequence 2290, Ap
90	63.8	286	2	US-09-248-796A-19241	Sequence 19241, A
91	63.8	305	2	US-09-248-796A-14193	Sequence 14193, A
92	63.8	309	2	US-09-522-714-10	Sequence 10, Appl
93	63.8	312	2	US-09-561-077C-28	Sequence 28, Appl
94	63.8	312	2	US-09-221-014-28	Sequence 28, Appl
95	63.8	315	2	US-09-270-767-38090	Sequence 38090, Ap
96	63.8	315	2	US-09-270-767-53307	Sequence 53307, A
97	63.8	318	2	US-09-248-796A-18177	Sequence 18177, A
98	63.8	331	2	US-09-248-796A-14561	Sequence 14561, A
99	63.8	345	2	US-08-765-963-1	Sequence 1, Appl
100	63.8	345	2	US-09-248-796A-15521	Sequence 15521, A

101	30	63.8	352	2	US-09-248-796A-20131	Sequence 20131, A	174	29	61.7	365	2	US-09-248-796A-21739	Sequence 21739, A
102	30	63.8	359	2	US-09-248-796A-18989	Sequence 18989, A	175	29	61.7	374	2	US-09-692-570-18	Sequence 18, Appl
103	30	63.8	367	2	US-09-248-796A-18299	Sequence 18299, A	176	29	61.7	410	2	US-09-593-110-503	Sequence 5303, Ap
104	30	63.8	397	2	US-09-134-001C-4188	Sequence 4188, Ap	177	29	61.7	414	2	US-09-927-728-8	Sequence 8, Appl1
105	30	63.8	397	2	US-09-543-681A-8313	Sequence 8313, Ap	178	29	61.7	418	2	US-09-107-433-4699	Sequence 4699, Ap
106	30	63.8	402	2	US-09-134-001C-4674	Sequence 4674, Ap	179	29	61.7	446	2	US-09-830-230A-570	Sequence 570, Ap
107	30	63.8	491	2	US-09-248-796A-19609	Sequence 19609, A	180	29	61.7	469	2	US-09-830-230A-569	Sequence 569, Ap
108	30	63.8	546	2	US-09-107-532A-4759	Sequence 4759, Ap	181	29	61.7	478	2	US-09-700-397-8	Sequence 8, Appl1
109	30	63.8	559	2	US-09-270-767-36187	Sequence 36187, A	182	29	61.7	519	2	US-09-693-746-10	Sequence 10, Appl
110	30	63.8	559	2	US-09-270-767-51404	Sequence 51404, A	183	29	61.7	522	2	US-09-693-746-12	Sequence 12, Appl
111	30	63.8	577	1	US-08-756-317-13	Sequence 13, Appl	184	29	61.7	529	4	PCT-US92-00282-7	Sequence 7, Appl1
112	30	63.8	577	2	US-09-315-794-32	Sequence 32, Appl	185	29	61.7	531	2	US-09-134-000C-5322	Sequence 5322, Ap
113	30	63.8	577	2	US-09-389-931-32	Sequence 32, Appl	186	29	61.7	539	1	US-08-759-581B-20	Sequence 20, Appl
114	30	63.8	577	2	US-09-538-092-369	Sequence 369, Ap	187	29	61.7	539	2	US-09-173-711-20	Sequence 20, Appl
115	30	63.8	644	2	US-08-193-331-7	Sequence 7, Appl1	188	29	61.7	539	2	US-09-173-711-20	Sequence 20, Appl
116	30	63.8	700	1	US-08-568-459A-10	Sequence 10, Appl	189	29	61.7	534	2	US-08-591-468-7	Sequence 7, Appl1
117	30	63.8	700	1	US-08-487-826B-10	Sequence 10, Appl	190	29	61.7	554	2	US-09-650-324A-60	Sequence 60, Appl
118	30	63.8	700	1	US-09-210-288-10	Sequence 10, Appl	191	29	61.7	554	2	US-10-039-112A-60	Sequence 60, Appl
119	30	63.8	700	2	US-10-153-273-10	Sequence 10, Appl	192	29	61.7	554	4	PCT-US94-06330-7	Sequence 7, Appl1
120	30	63.8	718	2	US-09-252-991A-28432	Sequence 29432, A	193	29	61.7	568	2	US-09-489-039A-13755	Sequence 13755, A
121	30	63.8	842	2	US-08-591-502B-50	Sequence 50, Appl	194	29	61.7	568	2	US-09-248-796A-22993	Sequence 22993, A
122	30	63.8	842	2	US-08-591-502B-51	Sequence 51, Appl	195	29	61.7	609	2	US-09-107-532A-4451	Sequence 4451, Ap
123	30	63.8	966	1	US-08-868-786-2	Sequence 2, Appl1	196	29	61.7	609	2	US-09-934-903-2	Sequence 2, Appl1
124	30	63.8	1738	2	US-08-486-049-2	Sequence 2, Appl1	197	29	61.7	620	2	US-09-934-903-2	Sequence 2, Appl1
125	30	63.8	1738	2	US-10-314-739A-2	Sequence 2, Appl1	198	29	61.7	620	2	US-09-934-903-2	Sequence 2, Appl1
126	30	63.8	2182	1	US-08-487-826B-16	Sequence 16, Appl	199	29	61.7	621	2	US-10-701-200-62	Sequence 62, Appl
127	29	61.7	9	2	US-08-159-339A-384	Sequence 384, Ap	200	29	61.7	621	2	US-09-026-001A-6	Sequence 6, Appl1
128	29	61.7	61	2	US-09-543-681A-8283	Sequence 8283, Ap	201	29	61.7	621	2	US-09-966-650-6	Sequence 6, Appl1
129	29	61.7	80	1	US-08-271-354-12	Sequence 12, Appl	202	29	61.7	633	2	US-09-328-352-4599	Sequence 4599, Ap
130	29	61.7	80	1	US-08-565-861-12	Sequence 12, Appl	203	29	61.7	638	1	US-08-681-151-3	Sequence 3, Appl1
131	29	61.7	80	2	US-09-068-804-32	Sequence 12, Appl	204	29	61.7	659	2	US-09-268-317-46	Sequence 46, Appl
132	29	61.7	80	4	PCT-US94-07658-12	Sequence 12, Appl	205	29	61.7	770	2	US-09-543-681A-8009	Sequence 8009, Ap
133	29	61.7	83	6	5242798-1	Patent No. 5242798	206	29	61.7	896	2	US-09-543-681A-5439	Sequence 5439, Ap
134	29	61.7	92	2	US-09-489-039A-7829	Sequence 7829, Ap	207	29	61.7	947	2	US-09-418-780A-1	Sequence 1, Appl1
135	29	61.7	95	2	US-09-252-991A-19558	Sequence 19558, A	208	29	61.7	947	2	US-09-392-714-23	Sequence 23, Appl
136	29	61.7	105	2	US-09-248-796A-14228	Sequence 14228, A	209	29	61.7	974	1	US-08-868-786-6	Sequence 6, Appl1
137	29	61.7	112	2	US-09-107-532A-5021	Sequence 5021, Ap	210	29	61.7	983	2	US-09-394-200-2	Sequence 2, Appl1
138	29	61.7	112	2	US-09-270-767-57251	Sequence 57251, A	211	29	61.7	983	2	US-10-047-757-2	Sequence 2, Appl1
139	29	61.7	117	2	US-09-332-290-47	Sequence 47, Appl	212	29	61.7	1245	2	US-09-543-681A-5592	Sequence 5592, Ap
140	29	61.7	135	2	US-09-134-000C-5793	Sequence 5793, Ap	213	29	61.7	3256	2	US-09-919-152-08	Sequence 98, Appl
141	29	61.7	152	2	US-09-605-703B-2182	Sequence 2182, Ap	214	29	61.7	3256	2	US-09-919-152-22	Sequence 22, Appl
142	29	61.7	160	2	US-09-194-146-8	Sequence 4, Appl1	215	29	61.7	3256	2	US-09-919-152-22	Sequence 22, Appl
143	29	61.7	160	2	US-09-896-580B-4	Sequence 4, Appl1	216	29	61.7	13	2	US-09-680-201-1	Sequence 1, Appl1
144	29	61.7	166	2	US-09-270-767-32841	Sequence 32841, A	217	29	61.7	14	2	US-09-191-906A-8	Sequence 8, Appl1
145	29	61.7	186	2	US-09-107-532A-5027	Sequence 5027, Ap	218	29	61.7	14	2	US-09-680-201-8	Sequence 8, Appl1
146	29	61.7	197	2	US-09-270-767-50320	Sequence 50320, A	219	29	61.7	18	1	US-08-522-326-5	Sequence 5, Appl1
147	29	61.7	197	2	US-09-270-767-50337	Sequence 50337, A	220	29	61.7	18	1	US-09-962-756-1553	Sequence 1553, Ap
148	29	61.7	204	2	US-09-270-767-41996	Sequence 41996, A	221	29	61.7	19	2	US-09-962-756-1989	Sequence 1989, Ap
149	29	61.7	208	2	US-09-134-000C-4317	Sequence 4317, Ap	222	29	61.7	20	2	US-09-962-756-1210	Sequence 1210, Ap
150	29	61.7	219	2	US-09-460-384-37	Sequence 37, Appl	223	29	61.7	24	2	US-09-962-756-1701	Sequence 1701, Ap
151	29	61.7	229	2	US-09-107-532A-6064	Sequence 6064, Ap	224	29	61.7	24	2	US-09-962-756-1705	Sequence 1705, Ap
152	29	61.7	231	2	US-09-270-767-31808	Sequence 31808, A	225	29	61.7	26	2	US-09-962-756-1658	Sequence 1658, Ap
153	29	61.7	231	2	US-09-270-767-31808	Sequence 31808, A	226	29	61.7	26	2	US-09-962-756-1637	Sequence 1637, Ap
154	29	61.7	232	2	US-09-959-392-31	Sequence 31, Appl	227	29	61.7	27	2	US-09-962-756-1692	Sequence 1692, Ap
155	29	61.7	235	2	US-09-066-408-12	Sequence 12, Appl	228	29	61.7	27	2	US-09-962-756-1644	Sequence 1644, Ap
156	29	61.7	235	2	US-09-328-355-6597	Sequence 6597, Ap	229	29	61.7	27	2	US-09-962-756-1654	Sequence 1654, Ap
157	29	61.7	245	2	US-08-845-258-32	Sequence 32, Appl	230	29	61.7	27	2	US-09-962-756-1685	Sequence 1685, Ap
158	29	61.7	245	2	US-08-990-571-32	Sequence 32, Appl	231	29	61.7	27	2	US-09-962-756-1689	Sequence 1689, Ap
159	29	61.7	245	2	US-08-723-142A-32	Sequence 32, Appl	232	29	61.7	27	2	US-09-962-756-1690	Sequence 1690, Ap
160	29	61.7	245	2	US-09-528-788A-32	Sequence 32, Appl	233	29	61.7	27	2	US-09-962-756-1700	Sequence 1700, Ap
161	29	61.7	245	2	US-09-569-098A-32	Sequence 32, Appl	234	29	61.7	28	2	US-09-962-756-1702	Sequence 1702, Ap
162	29	61.7	248	2	US-08-944-483-63	Sequence 63, Appl	235	29	61.7	28	2	US-09-962-756-1696	Sequence 1696, Ap
163	29	61.7	260	2	US-09-248-796A-17172	Sequence 17172, A	236	29	61.7	28	2	US-09-962-756-1698	Sequence 1698, Ap
164	29	61.7	263	2	US-09-543-681A-7789	Sequence 7789, Ap	237	29	61.7	28	2	US-09-962-756-1699	Sequence 1699, Ap
165	29	61.7	263	2	US-09-134-000C-4347	Sequence 4347, Ap	238	29	61.7	28	2	US-09-962-756-1708	Sequence 1708, Ap
166	29	61.7	263	2	US-09-248-796A-14226	Sequence 14226, A	239	29	61.7	28	2	US-09-962-756-1678	Sequence 1678, Ap
167	29	61.7	294	2	US-09-927-738-9	Sequence 9, Appl1	240	29	61.7	30	2	US-09-962-756-1678	Sequence 1678, Ap
168	29	61.7	297	2	US-09-543-681A-8242	Sequence 8242, Ap	241	29	61.7	35	2	US-09-270-767-13091	Sequence 43091, A
169	29	61.7	311	2	US-09-107-532A-4438	Sequence 4438, Ap	242	29	61.7	35	2	US-09-962-756-1697	Sequence 1697, Ap
170	29	61.7	311	2	US-09-107-532A-4438	Sequence 4438, Ap	243	29	61.7	40	2	US-09-962-756-1697	Sequence 1697, Ap
171	29	61.7	311	2	US-09-248-796A-14737	Sequence 14737, A	244	29	61.7	40	2	US-09-962-756-1710	Sequence 1710, Ap
172	29	61.7	341	2	US-09-248-796A-17051	Sequence 17051, A	245	29	61.7	52	2	US-09-513-999C-6024	Sequence 6024, Ap
173	29	61.7	358	2	US-09-543-681A-4573	Sequence 4573, Ap	246	29	61.7	54	2	US-09-621-976-4731	Sequence 4731, Ap

247	28	59.6	61	2	US-09-513-999C-6023	Sequence 6023, Ap	320	28	59.6	375	2	US-10-011-749-22	Sequence 22, Appl
248	28	59.6	64	2	US-09-248-796A-6535	Sequence 26535, A	321	28	59.6	378	2	US-09-248-796A-2195	Sequence 21995, A
249	28	59.6	67	2	US-09-248-796A-25846	Sequence 25846, A	322	28	59.6	380	2	US-09-270-767-45629	Sequence 45629, A
250	28	59.6	69	2	US-09-248-796A-21476	Sequence 21476, A	323	28	59.6	397	2	US-09-134-001C-4205	Sequence 4205, Ap
251	28	59.6	70	2	US-09-621-975-4825	Sequence 4825, Ap	324	28	59.6	410	2	US-09-248-796A-16885	Sequence 16885, A
252	28	59.6	73	2	US-09-583-110-4954	Sequence 4954, Ap	325	28	59.6	423	2	US-09-248-796A-26813	Sequence 26813, A
253	28	59.6	73	2	US-09-134-001C-5108	Sequence 5108, Ap	326	28	59.6	428	2	US-09-252-991A-19723	Sequence 19723, A
254	28	59.6	84	2	US-09-134-001C-3079	Sequence 3079, Ap	327	28	59.6	432	2	US-09-710-279-780	Sequence 780, App
255	28	59.6	93	2	US-09-732-210-747	Sequence 747, App	328	28	59.6	433	2	US-09-107-532A-5822	Sequence 5822, Ap
256	28	59.6	95	2	US-09-270-767-40574	Sequence 40574, A	329	28	59.6	439	2	US-09-328-352-4368	Sequence 4368, Ap
257	28	59.6	95	2	US-09-270-767-55790	Sequence 55790, A	330	28	59.6	451	2	US-09-902-540-14145	Sequence 14145, A
258	28	59.6	98	2	US-09-248-796A-21470	Sequence 21470, A	331	28	59.6	452	2	US-09-538-092-784	Sequence 784, App
259	28	59.6	98	2	US-09-732-210-961	Sequence 961, App	332	28	59.6	457	2	US-10-104-047-2788	Sequence 2788, Ap
260	28	59.6	123	2	US-09-710-279-2418	Sequence 2418, Ap	333	28	59.6	465	2	US-09-000-094-24	Sequence 24, Appl
261	28	59.6	126	2	US-09-107-532A-6298	Sequence 6298, Ap	334	28	59.6	466	2	US-10-011-749-24	Sequence 24, Appl
262	28	59.6	133	2	US-09-621-975-4435	Sequence 4435, Ap	335	28	59.6	466	1	US-08-833-791-9	Sequence 9, Appl
263	28	59.6	135	2	US-09-540-235-2451	Sequence 2451, Ap	336	28	59.6	466	1	US-09-912-039-318	Sequence 318, App
264	28	59.6	148	2	US-09-248-796A-17068	Sequence 17068, A	337	28	59.6	481	1	US-08-477-451-19	Sequence 19, App
265	28	59.6	151	2	US-09-270-767-36729	Sequence 36729, A	338	28	59.6	489	2	US-09-248-796A-18261	Sequence 18261, A
266	28	59.6	151	2	US-09-270-767-51946	Sequence 51946, A	339	28	59.6	508	2	US-09-248-796A-18191	Sequence 18191, A
267	28	59.6	162	2	US-09-270-767-38595	Sequence 38595, A	340	28	59.6	514	2	US-09-270-767-58737	Sequence 58737, A
268	28	59.6	162	2	US-09-270-767-53812	Sequence 53812, A	341	28	59.6	531	1	US-08-923-536A-12	Sequence 12, Appl
269	28	59.6	172	2	US-09-352-991A-31245	Sequence 31245, A	342	28	59.6	534	2	US-09-538-092-716	Sequence 716, App
270	28	59.6	189	2	US-09-134-000C-5612	Sequence 5612, Ap	343	28	59.6	544	2	US-09-107-532A-1136	Sequence 1136, Ap
271	28	59.6	198	2	US-09-270-767-57545	Sequence 57545, A	344	28	59.6	560	2	US-09-540-236-2263	Sequence 2263, Ap
272	28	59.6	200	2	US-09-248-796A-15414	Sequence 15414, A	345	28	59.6	568	1	US-07-803-622E-4	Sequence 4, Appl
273	28	59.6	215	2	US-09-305-984-18	Sequence 18, Appl	346	28	59.6	572	2	US-09-543-681A-8138	Sequence 8138, Ap
274	28	59.6	215	2	US-09-305-984-64	Sequence 64, Appl	347	28	59.6	580	2	US-09-538-092-40	Sequence 40, Appl
275	28	59.6	215	2	US-09-073-541A-18	Sequence 18, Appl	348	28	59.6	581	2	US-09-134-001C-5089	Sequence 5089, Ap
276	28	59.6	215	2	US-09-493-940-18	Sequence 18, Appl	349	28	59.6	582	2	US-09-543-681A-6918	Sequence 6918, Ap
277	28	59.6	215	2	US-09-493-940-64	Sequence 64, Appl	350	28	59.6	638	2	US-09-543-681A-6918	Sequence 14466, A
278	28	59.6	219	2	US-09-583-110-5320	Sequence 5320, Ap	351	28	59.6	659	2	US-09-902-540-14466	Sequence 17, Appl
279	28	59.6	219	2	US-09-107-433-4810	Sequence 4810, Ap	352	28	59.6	659	2	US-09-562-737-17	Sequence 44991, A
280	28	59.6	224	2	US-09-305-984-72	Sequence 72, Appl	353	28	59.6	670	2	US-09-270-767-44991	Sequence 5979, Ap
281	28	59.6	224	2	US-09-305-984-74	Sequence 74, Appl	354	28	59.6	679	2	US-09-248-796A-5979	Sequence 25953, A
282	28	59.6	224	2	US-09-305-984-76	Sequence 76, Appl	355	28	59.6	726	2	US-09-248-796A-17362	Sequence 17362, A
283	28	59.6	224	2	US-09-493-940-72	Sequence 72, Appl	356	28	59.6	730	2	US-09-248-796A-1707	Sequence 4707, Ap
284	28	59.6	224	2	US-09-493-940-74	Sequence 74, Appl	357	28	59.6	731	1	US-09-107-433-4707	Sequence 2, Appl
285	28	59.6	224	2	US-09-493-940-76	Sequence 76, Appl	358	28	59.6	731	1	US-08-731-716-2	Sequence 2, Appl
286	28	59.6	224	2	US-09-493-940-76	Sequence 76, Appl	359	28	59.6	731	1	US-09-583-110-4120	Sequence 4720, Ap
287	28	59.6	229	2	US-09-270-767-35290	Sequence 35290, A	360	28	59.6	772	2	US-09-014-897-2	Sequence 2, Appl
288	28	59.6	232	2	US-09-270-767-50507	Sequence 50507, A	361	28	59.6	829	2	US-09-603-208A-14	Sequence 2, Appl
289	28	59.6	233	2	US-09-128-352-4673	Sequence 4673, Ap	362	28	59.6	865	2	US-09-248-796A-19017	Sequence 19017, A
290	28	59.6	238	2	US-09-248-796A-16466	Sequence 16466, A	363	28	59.6	868	2	US-09-248-796A-19017	Sequence 10416, A
291	28	59.6	250	2	US-09-257-179-80	Sequence 80, Appl	364	28	59.6	895	2	US-09-800-729-106	Sequence 194, App
292	28	59.6	250	2	US-09-107-532A-5397	Sequence 5397, Ap	365	28	59.6	921	2	US-09-614-912-194	Sequence 199, App
293	28	59.6	253	2	US-09-370-767-43784	Sequence 43784, A	366	28	59.6	1038	2	US-09-800-729-106	Sequence 4, Appl
294	28	59.6	259	2	US-09-543-681A-4473	Sequence 4473, Ap	367	28	59.6	1038	2	US-09-723-820-4	Sequence 4, Appl
295	28	59.6	272	2	US-09-538-092-269	Sequence 269, App	368	28	59.6	1038	2	US-09-723-820-4	Sequence 889, App
296	28	59.6	276	2	US-09-248-796A-16179	Sequence 16179, A	369	28	59.6	1076	2	US-09-976-594-889	Sequence 2, Appl
297	28	59.6	278	2	US-09-400-742-8	Sequence 8, Appl	370	28	59.6	1180	2	US-09-000-004A-2	Sequence 2, Appl
298	28	59.6	278	2	US-08-618-651A-8	Sequence 8, Appl	371	28	59.6	1261	2	US-09-101-749-46	Sequence 4, Appl
299	28	59.6	278	2	US-09-215-352-7	Sequence 7, Appl	372	28	59.6	1261	2	US-09-332-295-2	Sequence 2, Appl
300	28	59.6	278	2	US-09-970-989A-7	Sequence 6726, Ap	373	28	59.6	1261	2	US-09-709-979-2	Sequence 2, Appl
301	28	59.6	278	2	US-09-949-016-6726	Sequence 6726, Ap	374	28	59.6	1261	2	US-09-147-268-2	Sequence 2, Appl
302	28	59.6	282	2	US-09-134-000C-3975	Sequence 3975, Ap	375	28	59.6	1335	2	US-09-270-767-43388	Sequence 43388, A
303	28	59.6	282	2	US-09-270-767-36482	Sequence 36482, A	376	28	59.6	1335	2	US-09-134-001C-3716	Sequence 3716, Ap
304	28	59.6	287	2	US-09-270-767-51699	Sequence 51699, A	377	28	59.6	1587	2	US-09-000-094-46	Sequence 46, Appl
305	28	59.6	289	2	US-09-710-279-3312	Sequence 4339, Ap	378	28	59.6	1587	2	US-10-011-749-46	Sequence 46, Appl
306	28	59.6	290	2	US-09-134-001C-4339	Sequence 4339, Ap	379	28	59.6	1734	2	US-09-724-126A-19	Sequence 19, Appl
307	28	59.6	293	2	US-09-107-532A-4206	Sequence 4206, Ap	380	28	59.6	1734	2	US-09-724-126A-19	Sequence 12, Appl
308	28	59.6	300	2	US-09-949-016-9334	Sequence 9334, Ap	381	28	59.6	1901	2	US-09-738-946-12	Sequence 10, Appl
309	28	59.6	302	2	US-09-107-532A-4509	Sequence 4509, Ap	382	28	59.6	2781	2	US-09-698-295-10	Sequence 10, Appl
310	28	59.6	307	2	US-09-270-767-44059	Sequence 44059, A	383	28	59.6	2907	2	US-09-698-295-10	Sequence 10, Appl
311	28	59.6	321	2	US-09-134-000C-5332	Sequence 5332, Ap	384	28	59.6	523	2	US-09-830-230A-474	Sequence 474, App
312	28	59.6	322	2	US-09-710-279-1990	Sequence 1990, Ap	385	28	59.6	526	2	US-09-689-0658-102	Sequence 102, App
313	28	59.6	323	2	US-09-134-000C-3967	Sequence 3967, Ap	386	28	59.6	552	2	US-09-830-230A-473	Sequence 473, App
314	28	59.6	341	1	US-08-356-180-4	Sequence 4, Appl	387	28	59.6	552	2	US-08-159-339A-1172	Sequence 1172, Ap
315	28	59.6	344	1	US-09-134-001C-5004	Sequence 5004, Ap	388	28	59.6	574	2	US-08-159-339A-1104	Sequence 1204, Ap
316	28	59.6	360	2	US-09-270-767-42265	Sequence 42265, A	389	28	59.6	574	2	US-08-159-339A-1211	Sequence 1211, Ap
317	28	59.6	368	2	US-09-000-094-20	Sequence 20, Appl	390	28	59.6	574	2	US-08-217-188A-4	Sequence 30, Appl
318	28	59.6	368	2	US-10-011-749-20	Sequence 20, Appl	391	28	59.6	574	2	US-07-915-247A-30	Sequence 4, Appl
319	28	59.6	375	2	US-09-000-094-22	Sequence 22, Appl	392	28	59.6	574	2	US-08-687-226-4	Sequence 4, Appl

393	27	57.4	10	1	US-08-443-863-30	Sequence 30, App1	466	27	57.4	18	2	US-08-940-136-247	Sequence 247, App
394	27	57.4	10	1	US-08-448-070-30	Sequence 30, App1	467	27	57.4	18	2	US-09-453-841-240	Sequence 240, App
395	27	57.4	10	1	US-08-449-500-30	Sequence 30, App1	468	27	57.4	18	2	US-09-453-841-243	Sequence 243, App
396	27	57.4	10	1	US-08-449-317A-30	Sequence 30, App1	469	27	57.4	18	2	US-09-453-841-244	Sequence 244, App
397	27	57.4	10	1	US-08-477-022-30	Sequence 30, App1	470	27	57.4	18	2	US-09-453-841-247	Sequence 247, App
398	27	57.4	10	1	US-08-449-447-30	Sequence 30, App1	471	27	57.4	18	2	US-09-453-833-240	Sequence 240, App
399	27	57.4	10	1	US-08-184-328-30	Sequence 30, App1	472	27	57.4	18	2	US-09-453-833-243	Sequence 243, App
400	27	57.4	10	1	US-08-521-097-30	Sequence 30, App1	473	27	57.4	18	2	US-09-453-833-244	Sequence 244, App
401	27	57.4	10	2	US-08-159-339A-1207	Sequence 1207, App	474	27	57.4	18	2	US-09-453-833-247	Sequence 247, App
402	27	57.4	10	2	US-08-667-725B-4	Sequence 4, App11	475	27	57.4	18	2	US-09-453-826-240	Sequence 240, App
403	27	57.4	10	2	US-09-007-748-4	Sequence 4, App11	476	27	57.4	18	2	US-09-453-826-243	Sequence 243, App
404	27	57.4	10	2	US-08-903-124-30	Sequence 30, App1	477	27	57.4	18	2	US-09-453-826-244	Sequence 244, App
405	27	57.4	11	2	US-09-667-365-496	Sequence 496, App	478	27	57.4	18	2	US-09-453-826-247	Sequence 247, App
406	27	57.4	11	2	US-09-667-365-508	Sequence 508, App	479	27	57.4	18	2	US-09-645-454-1	Sequence 1, App11
407	27	57.4	11	2	US-09-667-365-532	Sequence 532, App	480	27	57.4	18	2	US-09-645-454-2	Sequence 2, App11
408	27	57.4	11	2	US-09-667-365-596	Sequence 596, App	481	27	57.4	18	2	US-09-645-454-3	Sequence 3, App11
409	27	57.4	11	2	US-09-667-365-660	Sequence 660, App	482	27	57.4	18	2	US-09-645-454-4	Sequence 4, App11
410	27	57.4	14	2	US-09-645-454-21	Sequence 21, App1	483	27	57.4	18	2	US-09-645-454-5	Sequence 5, App11
411	27	57.4	14	2	US-09-645-454-22	Sequence 22, App1	484	27	57.4	18	2	US-09-645-454-6	Sequence 6, App11
412	27	57.4	14	2	US-09-645-454-23	Sequence 23, App1	485	27	57.4	18	2	US-09-645-454-7	Sequence 7, App11
413	27	57.4	14	2	US-09-645-454-24	Sequence 24, App1	486	27	57.4	18	2	US-09-645-454-8	Sequence 8, App11
414	27	57.4	14	2	US-09-645-454-25	Sequence 25, App1	487	27	57.4	18	2	US-09-645-454-9	Sequence 9, App11
415	27	57.4	14	2	US-09-645-454-26	Sequence 26, App1	488	27	57.4	18	2	US-09-645-454-12	Sequence 12, App1
416	27	57.4	14	2	US-09-645-454-27	Sequence 27, App1	489	27	57.4	18	2	US-09-645-454-15	Sequence 15, App1
417	27	57.4	14	2	US-09-645-454-30	Sequence 30, App1	490	27	57.4	18	2	US-09-645-454-16	Sequence 16, App1
418	27	57.4	14	2	US-09-645-454-33	Sequence 33, App1	491	27	57.4	18	2	US-09-453-840-240	Sequence 240, App
419	27	57.4	14	2	US-09-645-454-34	Sequence 34, App1	492	27	57.4	18	2	US-09-453-840-243	Sequence 243, App
420	27	57.4	14	2	US-09-645-454-37	Sequence 37, App1	493	27	57.4	18	2	US-09-453-840-244	Sequence 244, App
421	27	57.4	14	2	US-09-896-841A-21	Sequence 21, App1	494	27	57.4	18	2	US-09-453-840-247	Sequence 247, App
422	27	57.4	14	2	US-09-896-841A-22	Sequence 22, App1	495	27	57.4	18	2	US-09-453-840-247	Sequence 247, App
423	27	57.4	14	2	US-09-896-841A-23	Sequence 23, App1	496	27	57.4	18	2	US-09-865-989-240	Sequence 240, App
424	27	57.4	14	2	US-09-896-841A-24	Sequence 24, App1	497	27	57.4	18	2	US-09-865-989-243	Sequence 243, App
425	27	57.4	14	2	US-09-896-841A-25	Sequence 25, App1	498	27	57.4	18	2	US-09-865-989-244	Sequence 244, App
426	27	57.4	14	2	US-09-896-841A-26	Sequence 26, App1	499	27	57.4	18	2	US-09-865-989-247	Sequence 247, App
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428	27	57.4	14	2	US-09-896-841A-30	Sequence 30, App1	501	27	57.4	18	2	US-09-840-669B-8	Sequence 8, App11
429	27	57.4	14	2	US-09-896-841A-33	Sequence 33, App1	502	27	57.4	18	2	US-09-840-669B-9	Sequence 9, App11
430	27	57.4	14	2	US-09-896-841A-34	Sequence 34, App1	503	27	57.4	18	2	US-09-840-669B-11	Sequence 11, App1
431	27	57.4	14	2	US-09-896-841A-37	Sequence 37, App1	504	27	57.4	18	2	US-09-453-834-240	Sequence 240, App
432	27	57.4	18	1	US-07-928-930A-1	Sequence 1, App11	505	27	57.4	18	2	US-09-453-834-243	Sequence 243, App
433	27	57.4	18	1	US-07-920-597-6	Sequence 6, App11	506	27	57.4	18	2	US-09-453-834-244	Sequence 244, App
434	27	57.4	18	1	US-08-288-568-1	Sequence 1, App11	507	27	57.4	18	2	US-09-453-834-245	Sequence 245, App
435	27	57.4	18	1	US-08-487-461-1	Sequence 1, App11	508	27	57.4	18	2	US-09-453-834-247	Sequence 247, App
436	27	57.4	18	1	US-08-432-691-1	Sequence 1, App11	509	27	57.4	18	2	US-10-283-599-240	Sequence 240, App
437	27	57.4	18	1	US-08-487-459-1	Sequence 1, App11	510	27	57.4	18	2	US-10-283-599-243	Sequence 243, App
438	27	57.4	18	2	US-08-940-095-240	Sequence 240, App	511	27	57.4	18	2	US-10-283-599-244	Sequence 244, App
439	27	57.4	18	2	US-08-940-095-243	Sequence 243, App	512	27	57.4	18	2	US-10-283-599-247	Sequence 247, App
440	27	57.4	18	2	US-08-940-095-244	Sequence 244, App	513	27	57.4	18	2	US-09-465-718-240	Sequence 240, App
441	27	57.4	18	2	US-08-940-095-247	Sequence 247, App	514	27	57.4	18	2	US-09-465-718-243	Sequence 243, App
442	27	57.4	18	2	US-08-940-093-240	Sequence 240, App	515	27	57.4	18	2	US-09-465-718-244	Sequence 244, App
443	27	57.4	18	2	US-08-940-093-243	Sequence 243, App	516	27	57.4	18	2	US-09-465-718-247	Sequence 247, App
444	27	57.4	18	2	US-08-940-093-244	Sequence 244, App	517	27	57.4	18	2	US-09-896-841A-1	Sequence 1, App11
445	27	57.4	18	2	US-08-940-093-247	Sequence 247, App	518	27	57.4	18	2	US-09-896-841A-2	Sequence 2, App11
446	27	57.4	18	2	US-08-940-096-240	Sequence 240, App	519	27	57.4	18	2	US-09-896-841A-3	Sequence 3, App11
447	27	57.4	18	2	US-08-940-096-243	Sequence 243, App	520	27	57.4	18	2	US-09-896-841A-4	Sequence 4, App11
448	27	57.4	18	2	US-08-940-096-244	Sequence 244, App	521	27	57.4	18	2	US-09-896-841A-5	Sequence 5, App11
449	27	57.4	18	2	US-08-940-096-247	Sequence 247, App	522	27	57.4	18	2	US-09-896-841A-7	Sequence 7, App11
450	27	57.4	18	2	US-09-465-719-240	Sequence 240, App	523	27	57.4	18	2	US-09-896-841A-8	Sequence 8, App11
451	27	57.4	18	2	US-09-465-719-243	Sequence 243, App	524	27	57.4	18	2	US-09-896-841A-9	Sequence 9, App11
452	27	57.4	18	2	US-09-465-719-244	Sequence 244, App	525	27	57.4	18	2	US-09-896-841A-12	Sequence 12, App1
453	27	57.4	18	2	US-09-465-719-247	Sequence 247, App	526	27	57.4	18	2	US-09-896-841A-15	Sequence 15, App1
454	27	57.4	18	2	US-09-453-838-243	Sequence 243, App	527	27	57.4	18	2	US-09-896-841A-16	Sequence 16, App1
455	27	57.4	18	2	US-09-453-605-240	Sequence 240, App	528	27	57.4	18	2	US-09-896-841A-19	Sequence 19, App1
456	27	57.4	18	2	US-09-453-605-243	Sequence 243, App	529	27	57.4	18	2	US-09-896-841A-40	Sequence 40, App1
457	27	57.4	18	2	US-09-453-605-244	Sequence 244, App	530	27	57.4	18	2	US-09-896-841A-41	Sequence 41, App1
458	27	57.4	18	2	US-09-453-838-240	Sequence 240, App	531	27	57.4	18	2	US-09-896-841A-43	Sequence 43, App1
459	27	57.4	18	2	US-09-453-838-243	Sequence 243, App	532	27	57.4	18	2	US-09-896-841A-44	Sequence 44, App1
460	27	57.4	18	2	US-09-453-838-244	Sequence 244, App	533	27	57.4	18	2	US-09-896-841A-46	Sequence 46, App1
461	27	57.4	18	2	US-09-453-838-247	Sequence 247, App	534	27	57.4	18	2	US-09-896-841A-47	Sequence 47, App1
462	27	57.4	18	2	US-09-520-698-4	Sequence 4, App11	535	27	57.4	18	2	US-09-896-841A-60	Sequence 60, App1
463	27	57.4	18	2	US-08-940-136-240	Sequence 240, App	536	27	57.4	18	2	US-09-896-841A-61	Sequence 61, App1
464	27	57.4	18	2	US-08-940-136-243	Sequence 243, App	537	27	57.4	18	2	US-09-896-841A-64	Sequence 64, App1
465	27	57.4	18	2	US-08-940-136-244	Sequence 244, App	538	27	57.4	18	2	US-09-896-841A-65	Sequence 65, App1

539	27	57.4	18	2	US-09-896-841A-66	Sequence 66, Appl	612	27	57.4	126	2	US-09-949-972-4	Sequence 4, Appl1
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541	27	57.4	18	2	US-09-896-841A-70	Sequence 70, Appl	614	27	57.4	142	2	US-09-252-991A-32263	Sequence 32263, A
542	27	57.4	18	2	US-09-896-841A-71	Sequence 71, Appl	615	27	57.4	145	2	US-09-640-211A-2125	Sequence 2129, Ap
543	27	57.4	18	2	US-09-896-841A-74	Sequence 74, Appl	616	27	57.4	148	2	US-09-270-767-45429	Sequence 45429, A
544	27	57.4	18	2	US-09-896-841A-75	Sequence 75, Appl	617	27	57.4	150	2	US-09-270-767-40884	Sequence 40884, A
545	27	57.4	18	2	US-09-896-841A-76	Sequence 76, Appl	618	27	57.4	152	2	US-09-270-767-56100	Sequence 56100, A
546	27	57.4	18	2	US-09-896-841A-77	Sequence 77, Appl	619	27	57.4	158	1	US-09-248-796A-27566	Sequence 27566, A
547	27	57.4	18	2	US-09-896-841A-78	Sequence 78, Appl	620	27	57.4	158	1	US-08-247-904B-10	Sequence 10, Appl
548	27	57.4	24	2	US-09-843-221A-133	Sequence 133, App	621	27	57.4	161	2	US-09-248-796A-15595	Sequence 15595, A
549	27	57.4	24	2	US-09-843-221A-143	Sequence 143, App	622	27	57.4	170	2	US-09-270-767-39683	Sequence 39683, A
550	27	57.4	27	2	US-07-120-189-3	Sequence 3, Appl1	623	27	57.4	170	2	US-09-270-767-54900	Sequence 54900, A
551	27	57.4	27	2	US-09-862-756-1646	Sequence 1646, Ap	624	27	57.4	176	2	US-09-583-110-5008	Sequence 5008, Ap
552	27	57.4	28	2	US-09-843-221A-97	Sequence 97, Appl	625	27	57.4	182	2	US-09-328-925-12	Sequence 12, Appl
553	27	57.4	30	2	US-09-843-221A-107	Sequence 107, App	626	27	57.4	182	2	US-09-248-796A-20255	Sequence 20255, A
554	27	57.4	30	2	US-09-843-221A-138	Sequence 138, App	627	27	57.4	183	2	US-09-562-737-115	Sequence 115, App
555	27	57.4	32	1	US-09-843-221A-157	Sequence 157, App	628	27	57.4	185	2	US-09-270-767-42922	Sequence 42922, A
556	27	57.4	32	1	US-08-164-768-4	Sequence 4, Appl1	629	27	57.4	200	2	US-09-442-013-10	Sequence 10, Appl
557	27	57.4	32	2	US-07-915-247A-22	Sequence 22, Appl	630	27	57.4	204	2	US-09-710-279-3240	Sequence 3240, App
558	27	57.4	34	1	US-08-443-863-22	Sequence 22, Appl	631	27	57.4	207	2	US-09-583-110-4755	Sequence 4755, Ap
559	27	57.4	34	1	US-08-448-070-22	Sequence 22, Appl	632	27	57.4	209	2	US-09-583-110-4755	Sequence 5090, Ap
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562	27	57.4	34	1	US-08-477-022-22	Sequence 22, Appl	635	27	57.4	222	2	US-09-066-408-6	Sequence 6, Appl1
563	27	57.4	34	1	US-08-449-447-22	Sequence 22, Appl	636	27	57.4	222	2	US-09-066-408-7	Sequence 7, Appl1
564	27	57.4	34	1	US-08-184-328-22	Sequence 22, Appl	637	27	57.4	223	2	US-09-066-408-8	Sequence 8, Appl1
565	27	57.4	34	1	US-08-521-097-22	Sequence 22, Appl	638	27	57.4	223	2	US-09-066-408-9	Sequence 9, Appl1
566	27	57.4	34	2	US-09-843-221A-92	Sequence 92, Appl	639	27	57.4	223	2	US-09-066-408-11	Sequence 11, Appl
567	27	57.4	34	2	US-09-843-221A-102	Sequence 102, App	640	27	57.4	226	2	US-09-195-286-1	Sequence 1, Appl1
568	27	57.4	34	2	US-09-843-221A-121	Sequence 121, App	641	27	57.4	226	2	US-09-195-286-11	Sequence 11, Appl1
569	27	57.4	34	2	US-09-843-221A-118	Sequence 128, App	642	27	57.4	230	2	US-09-442-013-4	Sequence 4, Appl1
570	27	57.4	34	2	US-08-903-124-22	Sequence 22, Appl	643	27	57.4	230	2	US-09-442-013-6	Sequence 6, Appl1
571	27	57.4	37	2	US-09-541-468-1	Sequence 1, Appl1	644	27	57.4	235	2	US-08-944-483-48	Sequence 48, Appl
572	27	57.4	37	2	US-09-902-540-11804	Sequence 11804, A	645	27	57.4	239	2	US-09-248-796A-19367	Sequence 19367, A
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574	27	57.4	37	2	US-09-896-841A-78	Sequence 78, Appl	647	27	57.4	250	2	US-09-442-013-8	Sequence 8, Appl1
575	27	57.4	37	2	US-09-896-841A-79	Sequence 79, Appl	648	27	57.4	250	2	US-08-944-483-51	Sequence 51, Appl
576	27	57.4	37	2	US-09-896-841A-80	Sequence 80, Appl	649	27	57.4	250	2	US-09-270-767-37265	Sequence 37265, A
577	27	57.4	37	2	US-09-896-841A-83	Sequence 83, Appl	650	27	57.4	252	2	US-09-270-767-52482	Sequence 52482, A
578	27	57.4	41	2	US-10-120-508-32	Sequence 32, Appl	651	27	57.4	252	2	US-09-328-352-5774	Sequence 5774, Ap
579	27	57.4	43	1	US-07-998-003A-81	Sequence 81, Appl	652	27	57.4	253	2	US-09-830-230A-218	Sequence 218, App
580	27	57.4	43	1	US-08-453-274B-81	Sequence 81, Appl	653	27	57.4	256	2	US-09-328-352-7702	Sequence 12, Appl
581	27	57.4	43	1	US-08-453-695A-81	Sequence 81, Appl	654	27	57.4	258	2	US-09-548-472B-12	Sequence 12, Appl
582	27	57.4	43	1	US-08-268-161A-81	Sequence 81, Appl	655	27	57.4	261	6	5270178-5	Sequence 19367, A
583	27	57.4	43	1	US-08-453-702A-81	Sequence 81, Appl	656	27	57.4	261	6	5270178-19	Sequence 29, Appl
584	27	57.4	43	2	US-09-099-639-81	Sequence 81, Appl	657	27	57.4	261	6	5270178-20	Sequence 51, Appl
585	27	57.4	43	4	PCT-US93-12588-81	Sequence 81, Appl	658	27	57.4	261	6	5270178-21	Sequence 51, Appl
586	27	57.4	43	4	PCT-US95-08071-81	Sequence 81, Appl	659	27	57.4	262	1	US-07-720-189-1	Sequence 1, Appl1
587	27	57.4	52	2	US-10-179-784-6	Sequence 6, Appl1	660	27	57.4	266	2	US-09-543-681A-5038	Sequence 5038, Ap
588	27	57.4	57	2	US-09-270-767-60935	Sequence 60935, A	661	27	57.4	267	2	US-09-134-000C-3559	Sequence 3559, Ap
589	27	57.4	62	2	US-09-107-532A-4628	Sequence 4628, Ap	662	27	57.4	267	2	US-09-715-994-2	Sequence 2, Appl1
590	27	57.4	63	2	US-09-248-796A-24897	Sequence 24897, A	663	27	57.4	269	2	US-09-949-016-6745	Sequence 6745, Ap
591	27	57.4	71	2	US-09-107-532A-5866	Sequence 5866, Ap	664	27	57.4	270	1	US-10-360-101-231	Sequence 231, App
592	27	57.4	71	2	US-09-107-532A-3816	Sequence 3816, Ap	665	27	57.4	271	2	US-08-117-083-14	Sequence 14, Appl
593	27	57.4	73	2	US-09-270-767-59490	Sequence 59490, A	666	27	57.4	272	2	US-09-270-767-331963	Sequence 331963, A
594	27	57.4	80	2	US-09-107-433-2837	Sequence 2837, Ap	667	27	57.4	272	2	US-09-270-767-47180	Sequence 47180, A
595	27	57.4	85	2	US-09-248-796A-24211	Sequence 24211, A	668	27	57.4	273	2	US-09-949-016-7093	Sequence 7093, Ap
596	27	57.4	86	1	US-08-107-499-25	Sequence 25, Appl	669	27	57.4	278	2	US-09-485-885-21	Sequence 21, Appl
597	27	57.4	86	2	US-09-289-268-25	Sequence 25, Appl	670	27	57.4	278	2	US-09-540-236-3654	Sequence 3654, Ap
598	27	57.4	91	2	US-09-134-001C-4898	Sequence 4898, Ap	671	27	57.4	279	1	US-08-701-191A-37	Sequence 37, Appl
599	27	57.4	101	2	US-09-248-796A-20700	Sequence 20700, A	672	27	57.4	279	1	US-09-664-526-37	Sequence 37, Appl
600	27	57.4	105	2	US-09-732-210-1021	Sequence 1021, Ap	673	27	57.4	283	2	US-09-107-532A-6360	Sequence 6360, Ap
601	27	57.4	110	2	US-09-732-210-1020	Sequence 1020, Ap	674	27	57.4	284	2	US-09-949-016-6337	Sequence 6337, Ap
602	27	57.4	111	2	US-09-270-767-33897	Sequence 33897, A	675	27	57.4	285	2	US-09-830-230A-217	Sequence 217, App
603	27	57.4	111	2	US-09-270-767-49114	Sequence 49114, A	676	27	57.4	286	2	US-09-328-352-7911	Sequence 7911, Ap
604	27	57.4	114	2	US-09-248-796A-20922	Sequence 20922, A	677	27	57.4	286	2	US-09-270-767-3316	Sequence 3316, A
605	27	57.4	119	2	US-09-252-991A-20928	Sequence 20928, A	678	27	57.4	289	2	US-09-270-767-48533	Sequence 48533, A
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607	27	57.4	125	2	US-09-513-999C-5820	Sequence 5820, A	680	27	57.4	298	2	US-09-270-767-53644	Sequence 53644, A
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609	27	57.4	126	2	US-09-550-497-4	Sequence 4, Appl1	682	27	57.4	299	1	US-08-470-868A-56	Sequence 56, Appl
610	27	57.4	126	2	US-09-147-992-4	Sequence 4, Appl1	683	27	57.4	299	2	US-09-270-767-46421	Sequence 46421, A
611	27	57.4	126	2	US-09-549-839A-4	Sequence 4, Appl1	684	27	57.4	303	1	US-08-518-878B-37	Sequence 37, Appl

685	27	57.4	303	1	US-08-294-522B-36	Sequence 36, Appl	758	27	57.4	415	1	US-08-073-531B-1	Sequence 1, Appl
686	27	57.4	303	1	US-08-807-861A-37	Sequence 37, Appl	759	27	57.4	415	1	US-08-295-411-2	Sequence 2, Appl
687	27	57.4	303	1	US-08-470-868A-37	Sequence 37, Appl	760	27	57.4	415	1	US-08-955-411-2	Sequence 2, Appl
688	27	57.4	303	2	US-09-210-681-37	Sequence 37, Appl	761	27	57.4	415	1	US-08-766-288-1	Sequence 1, Appl
689	27	57.4	303	2	US-08-946-719A-37	Sequence 37, Appl	762	27	57.4	415	2	US-09-118-748-2	Sequence 2, Appl
690	27	57.4	303	2	US-09-547-983-37	Sequence 37, Appl	763	27	57.4	415	2	US-09-170-466D-96	Sequence 96, Appl
691	27	57.4	306	2	US-09-392-772-6	Sequence 6, Appl	764	27	57.4	415	2	US-09-170-496D-214	Sequence 214, App
692	27	57.4	309	1	US-08-518-878B-51	Sequence 51, Appl	765	27	57.4	415	4	PCT-US92-10242-2	Sequence 2, Appl
693	27	57.4	309	1	US-08-807-861A-51	Sequence 51, Appl	766	27	57.4	419	1	US-08-225-411-1	Sequence 1, Appl
694	27	57.4	309	1	US-08-470-868A-51	Sequence 51, Appl	767	27	57.4	419	1	US-08-955-411-1	Sequence 1, Appl
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697	27	57.4	309	2	US-09-547-983-51	Sequence 51, Appl	770	27	57.4	419	2	US-10-182-263-3	Sequence 3, Appl
698	27	57.4	309	2	US-09-743-847-4	Sequence 4, Appl	771	27	57.4	419	2	US-10-182-263-4	Sequence 4, Appl
699	27	57.4	309	2	US-10-001-051B-2	Sequence 2, Appl	772	27	57.4	419	2	US-10-182-263-5	Sequence 5, Appl
700	27	57.4	309	2	US-10-009-962-8	Sequence 8, Appl	773	27	57.4	419	2	US-10-182-263-6	Sequence 6, Appl
701	27	57.4	314	2	US-10-671-628-8	Sequence 8, Appl	774	27	57.4	419	2	US-09-667-570A-3	Sequence 3, Appl
702	27	57.4	314	2	US-09-540-236-2699	Sequence 2699, Ap	775	27	57.4	419	2	US-10-182-263-1	Sequence 1, Appl
703	27	57.4	314	2	US-09-692-401-2	Sequence 2, Appl	776	27	57.4	419	2	US-10-168-407-3	Sequence 3, Appl
704	27	57.4	316	2	US-09-645-055-59	Sequence 59, Appl	777	27	57.4	419	2	US-10-168-407-4	Sequence 4, Appl
705	27	57.4	320	2	US-09-583-110-2899	Sequence 2899, Ap	778	27	57.4	419	2	US-10-168-407-5	Sequence 5, Appl
706	27	57.4	320	2	US-09-248-796A-19539	Sequence 19539, A	779	27	57.4	419	2	US-10-168-407-6	Sequence 6, Appl
707	27	57.4	327	2	US-09-107-433-4407	Sequence 4407, Ap	780	27	57.4	419	2	US-09-997-623-4	Sequence 4, Appl
708	27	57.4	334	2	US-09-134-000C-4461	Sequence 4461, Ap	781	27	57.4	419	4	PCT-US92-10242-1	Sequence 1, Appl
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710	27	57.4	337	1	US-08-317-222-3	Sequence 3, Appl	783	27	57.4	422	4	PCT-US92-03132-1	Sequence 1, Appl
711	27	57.4	337	1	US-08-445-135-4	Sequence 3, Appl	784	27	57.4	422	2	US-09-134-001C-2931	Sequence 2931, Ap
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713	27	57.4	337	2	US-09-213-632-3	Sequence 3, Appl	786	27	57.4	429	2	US-09-198-452A-189	Sequence 189, App
714	27	57.4	337	2	US-09-949-016-9410	Sequence 9410, Ap	787	27	57.4	429	2	US-09-219-865B-4	Sequence 4, Appl
715	27	57.4	337	4	PCT-US95-12675-3	Sequence 3, Appl	788	27	57.4	429	2	US-09-219-865B-12	Sequence 12, Appl
716	27	57.4	338	2	US-09-949-016-10637	Sequence 10637, A	789	27	57.4	430	2	US-09-134-001C-4712	Sequence 4712, Ap
717	27	57.4	343	2	US-10-314-048A-151	Sequence 151, App	790	27	57.4	432	2	US-09-949-016-8060	Sequence 8060, Ap
718	27	57.4	345	1	US-08-134-570-14	Sequence 14, Appl	791	27	57.4	432	2	US-09-949-016-8061	Sequence 8061, Ap
719	27	57.4	352	2	US-09-107-532A-4610	Sequence 4610, Ap	792	27	57.4	432	2	US-09-438-185A-173	Sequence 173, App
720	27	57.4	356	2	US-09-054-272-18	Sequence 18, Appl	793	27	57.4	435	1	US-08-258-261B-18	Sequence 18, Appl
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722	27	57.4	368	2	US-09-949-016-8818	Sequence 8818, Ap	795	27	57.4	435	1	US-08-457-342-18	Sequence 18, Appl
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729	27	57.4	392	2	US-09-997-333-205	Sequence 205, App	802	27	57.4	435	2	US-08-756-506-2	Sequence 2, Appl
730	27	57.4	392	2	US-09-992-598-205	Sequence 205, App	803	27	57.4	435	2	US-08-756-506-4	Sequence 4, Appl
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736	27	57.4	396	2	US-09-107-532A-7045	Sequence 7045, Ap	809	27	57.4	461	2	US-10-133-907-5	Sequence 5, Appl
737	27	57.4	397	2	US-10-104-047-3904	Sequence 3904, Ap	810	27	57.4	461	2	US-09-054-272-32	Sequence 32, Appl
738	27	57.4	398	1	US-08-176-413-5	Sequence 5, Appl	811	27	57.4	461	2	US-09-949-016-5921	Sequence 5921, Ap
739	27	57.4	398	1	US-08-641-038A-2	Sequence 2, Appl	812	27	57.4	461	2	US-10-168-407-2	Sequence 2, Appl
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742	27	57.4	398	2	US-09-260-889-2	Sequence 2, Appl	815	27	57.4	461	6	5270178-2	Patent No. 5270178
743	27	57.4	398	2	US-09-347-878-12	Sequence 12, Appl	816	27	57.4	461	6	5460953-3	Patent No. 5460953
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745	27	57.4	398	2	US-09-479-275-7	Sequence 7, Appl	818	27	57.4	465	2	US-09-134-000C-6425	Sequence 6425, Ap
746	27	57.4	398	4	PCT-US94-14919-5	Sequence 5, Appl	819	27	57.4	466	2	US-09-248-796A-17667	Sequence 17667, A
747	27	57.4	399	4	US-09-494-921-2	Sequence 2, Appl	820	27	57.4	474	2	US-09-248-796A-18640	Sequence 18640, A
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843	27	57.4	557.2	US-10-376-397B-36	Sequence 36, Appl	916	27	57.4	2404.1	US-08-400-604A-6
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864	27	57.4	630.2	US-09-538-092-384	Sequence 384, App	937	27	57.4	3110.5	US-09-949-016-5937
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870	27	57.4	689.1	US-08-221-817-18	Sequence 18, Appl	943	27	57.4	3801.1	US-08-822-445-10
871	27	57.4	689.1	US-08-454-439-18	Sequence 18, Appl	944	27	57.4	3801.2	US-09-396-540-10
872	27	57.4	689.2	PCT-US94-10487-18	Sequence 18, Appl	945	27	57.4	3801.3	US-09-970-269A-10
873	27	57.4	705.2	US-09-949-002-326	Sequence 326, App	946	27	57.4	3959.1	US-09-427-562-30
874	27	57.4	705.2	US-10-087-402-14	Sequence 14, Appl	947	27	57.4	3959.2	US-09-396-540-10
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882	27	57.4	788.2	US-09-733-643B-14	Sequence 14, Appl	955	27	56.3	18.2	US-09-896-841A-54
883	27	57.4	791.2	US-10-104-047-3453	Sequence 3453, Ap	956	27	56.3	21.1	US-08-682-517-18
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887	27	57.4	833.2	US-09-229-059-4	Sequence 4, Appl	960	27	56.3	30.2	US-09-873-155A-43
888	27	57.4	833.2	US-09-628-133-4	Sequence 11, Appl	961	27	56.3	30.2	US-09-262-856A-4
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896	27	57.4	1023.2	US-09-762-724-14	Sequence 14, Appl	969	27	56.3	36.2	US-09-657-276-390
897	27	57.4	1182.2	US-10-164-595-28	Sequence 28, Appl	970	27	56.3	37.2	US-10-027-038-3
898	27	57.4	1182.2	US-09-792-024-86	Sequence 86, Appl	971	27	56.3	37.2	US-10-027-038-9
899	27	57.4	1348.2	US-09-949-002-517	Sequence 517, App	972	27	56.3	37.2	US-09-896-841A-91
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902	27	57.4	1630.2	US-09-902-540-15591	Sequence 15591, A	975	27	56.3	42.2	US-09-973-278-552
903	27	57.4	1861.1	US-08-790-912-4	Sequence 4, Appl	976	27	56.3	61.2	US-09-248-796A-215991

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Sequence 12,	Appl
Sequence 12,	Appl
Sequence 10,	Appl
Sequence 10,	Appl
Sequence 30,	Appl
Sequence 30,	Appl
Sequence 34,	Appl
Sequence 272,	App
Sequence 459,	App
Sequence 728,	App
Sequence 628,	App
Patent No.	5190319
Sequence 52,	Appl
Sequence 54,	Appl
Sequence 18,	Appl
Sequence 1673,	Ap
Sequence 43,	Appl
Sequence 43,	Appl
Sequence 43,	Appl
Sequence 4,	Appl
Sequence 10,	Appl
Sequence 8,	Appl
Sequence 18,	Appl
Sequence 3,	Appl
Sequence 1,	Appl
Sequence 5,	Appl
Sequence 6,	Appl
Sequence 390,	App
Sequence 390,	App
Sequence 3,	Appl
Sequence 4,	Appl
Sequence 9,	Appl
Sequence 81,	Appl
Sequence 600,	App
Sequence 552,	App
Sequence 21592,	A

977 26 55.3 63 2 US-09-134-001C-4550
978 26 55.3 64 2 US-09-252-991A-23479
979 26 55.3 67 2 US-09-513-993C-5446
980 26 55.3 66 2 US-09-248-796A-55380
981 26 55.3 68 2 US-09-328-352-4195
982 26 55.3 70 1 US-08-222-616-16
983 26 55.3 70 2 US-08-446-648-16
984 26 55.3 70 2 US-09-982-610-16
985 26 55.3 70 4 PCT-US95-04228-16
986 26 55.3 72 2 US-09-583-110-3531
987 26 55.3 72 2 US-09-107-433-4999
988 26 55.3 75 2 US-09-248-796A-21824
989 26 55.3 75 2 US-09-248-796A-27932
990 26 55.3 77 2 US-09-543-681A-7804
991 26 55.3 77 2 US-09-270-767-37132
992 26 55.3 77 2 US-09-270-767-52349
993 26 55.3 79 2 US-09-248-796A-22933
994 26 55.3 80 2 US-09-248-796A-24955
995 26 55.3 81 2 US-09-621-976-5296
996 26 55.3 85 2 US-09-270-767-37341
997 26 55.3 85 2 US-09-270-767-32558
998 26 55.3 89 2 US-09-248-796A-26922
999 26 55.3 92 2 US-09-583-110-4877
1000 26 55.3 95 2 US-09-270-767-58577

ALIGNMENTS

RESULT 1
US-08-159-339A-229
Sequence 229, Application US/08159339A
Patent No. 6037135
GENERAL INFORMATION:
APPLICANT: Kubo, Ralph T.
APPLICANT: Grey, Howard M.
APPLICANT: Sette, Alessandro
APPLICANT: Celis, Esben
TITLE OF INVENTION: HLA Binding peptides and Their
NUMBER OF SEQUENCES: 1254
CORRESPONDENCE ADDRESS:
ADDRESSEE: Townsend and Townsend and Crew LLP
STREET: Two Embarcadero Center, Eighth Floor
CITY: San Francisco
STATE: CA
COUNTRY: USA
ZIP: 94111-3834
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
OPERATING SYSTEM: DOS
SOFTWARE: FASTSEQ for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/159,339A
FILING DATE: 29-NOV-1993
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/926,666
FILING DATE: 07-AUG-1992
APPLICATION NUMBER: US 08/027,746
FILING DATE: 05-MAR-1993
APPLICATION NUMBER: US 08/103,396
FILING DATE: 06-AUG-1993
ATTORNEY/AGENT INFORMATION:
NAME: Weber, Ellen Lauver
REGISTRATION NUMBER: 32,762
REFERENCE/DOCKET NUMBER: 016623-005030US
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 576-0200
TELEFAX: (415) 576-0300
TELEX:
INFORMATION FOR SEQ ID NO: 229:

Sequence 4550, Ap
Sequence 23479, A
Sequence 5446, Ap
Sequence 25380, A
Sequence 4195, Ap
Sequence 16, Appl
Sequence 16, Appl
Sequence 16, Appl
Sequence 3531, Ap
Sequence 4999, Ap
Sequence 21824, A
Sequence 27932, A
Sequence 7804, Ap
Sequence 37132, A
Sequence 52349, A
Sequence 22933, A
Sequence 24955, A
Sequence 5296, Ap
Sequence 37341, A
Sequence 52558, A
Sequence 26922, A
Sequence 4877, Ap
Sequence 58577, A

SEQUENCE CHARACTERISTICS:
LENGTH: 9 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-08-159-339A-229

Query Match 100.0%; Score 47; DB 2; Length 9;
Best Local Similarity 100.0%; Pred. No. 4.6e+05;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KFYKISRY 9
|||||
Db 1 KFYKISRY 9

RESULT 2
US-10-612-818-4
Sequence 4, Application US/10612818
Patent No. 6933123
GENERAL INFORMATION:
APPLICANT: Impact Diagnostics
TITLE OF INVENTION: Peptides from the E2, E6 and E7 Proteins of Human Papillomavirus
TITLE OF INVENTION: 18 for Detecting and/or Diagnosing Cervical and Other Human Papil
TITLE OF INVENTION: Associated Cancers
FILE REFERENCE: 3352-2-2
CURRENT APPLICATION NUMBER: US/10/612, 818
CURRENT FILING DATE: 2003-07-01
PRIOR APPLICATION NUMBER: US 60/394,172
PRIOR FILING DATE: 2002-07-02
PRIOR APPLICATION NUMBER: US 09/828,645
PRIOR FILING DATE: 2001-04-05
NUMBER OF SEQ ID NOS: 8
SOFTWARE: PatentIn version 3.1
SEQ ID NO 4
LENGTH: 22
TYPE: PPT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Derived from the E6 early coding region of HPV 16
US-10-612-818-4

Query Match 100.0%; Score 47; DB 2; Length 22;
Best Local Similarity 100.0%; Pred. No. 0.034;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KFYKISRY 9
|||||
Db 14 KFYKISRY 22

RESULT 3
US-09-980-523A-2
Sequence 2, Application US/09980523A
Patent No. 6783763
GENERAL INFORMATION:
APPLICANT: CHOPPIN, JEANNINE
APPLICANT: BOURGAULT VILLADA, ISABELLE
APPLICANT: GUILLET, JEAN-GERARD
APPLICANT: CONNAN, FRANCINE
APPLICANT: FERRIES, ESTELLE
TITLE OF INVENTION: POLYPEPTIDIC PROTEIN FRAGMENTS OF THE E6 AND E7
TITLE OF INVENTION: PROTEINS OF HPV, THEIR PRODUCTION AND THEIR USE
FILE REFERENCE: WO01 AO INS
CURRENT APPLICATION NUMBER: US/09/980,523A
CURRENT FILING DATE: 2002-04-29
PRIOR APPLICATION NUMBER: PCT/FR00/01513
PRIOR FILING DATE: 2000-05-31
PRIOR APPLICATION NUMBER: FR 99/07012
PRIOR FILING DATE: 1999-06-03

NUMBER OF SEQ ID NOS: 24
SOFTWARE: Patentln Ver. 2.1
SEQ ID NO 2
LENGTH: 158
TYPE: PRT
ORGANISM: Human Papillomavirus
US-09-980-523A-2

Query Match 100.0%; Score 47; DB 2; Length 158;
Best Local Similarity 100.0%; Pred. No. 0.23;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KFYSKISEY 9
Db 75 KFYSKISEY 83

RESULT 4
US-08-316-239B-3
Sequence 3, Application US/08316239B
Patent No. 5679509
GENERAL INFORMATION:
APPLICANT: Wheeler, Cosette M.
TITLE OF INVENTION: Methods and a Diagnostic Aid for
TITLE OF INVENTION: Distinguishing a Subset of HPV that is Associated with an
TITLE OF INVENTION: Increased Risk of Developing Cervical Dysplasia and
TITLE OF INVENTION: Cervical Cancer
NUMBER OF SEQUENCES: 4
CORRESPONDENCE ADDRESS:
ADDRESSEE: Jagtiani & Associates
STREET: 6126 Rocky Way Court
CITY: Centreville
STATE: VA
COUNTRY: USA
ZIP: 20120-3400
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentln Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/316,239B
FILING DATE: 30-SEP-1994
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Jagtiani, Ajay A.
REGISTRATION NUMBER: 35,205
REFERENCE/DOCKET NUMBER: UNMB-0001
TELECOMMUNICATION INFORMATION:
TELEPHONE: (703) 817-9453
TELEFAX: (703) 803-9387
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 162 amino acids
TYPE: amino acid
STRANDEDNESS: not relevant
TOPOLOGY: not relevant
MOLECULE TYPE: protein
HYPOTHETICAL: NO
US-08-316-239B-3

Query Match 100.0%; Score 47; DB 1; Length 162;
Best Local Similarity 100.0%; Pred. No. 0.24; Indels 0; Gaps 0;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KFYSKISEY 9
Db 75 KFYSKISEY 83

RESULT 5
US-08-316-239B-4

Sequence 4, Application US/08316239B
Patent No. 5679509
GENERAL INFORMATION:
APPLICANT: Wheeler, Cosette M.
TITLE OF INVENTION: Methods and a Diagnostic Aid for
TITLE OF INVENTION: Distinguishing a Subset of HPV that is Associated with an
TITLE OF INVENTION: Increased Risk of Developing Cervical Dysplasia and
TITLE OF INVENTION: Cervical Cancer
NUMBER OF SEQUENCES: 4
CORRESPONDENCE ADDRESS:
ADDRESSEE: Jagtiani & Associates
STREET: 6126 Rocky Way Court
CITY: Centreville
STATE: VA
COUNTRY: USA
ZIP: 20120-3400
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentln Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/316,239B
FILING DATE: 30-SEP-1994
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Jagtiani, Ajay A.
REGISTRATION NUMBER: 35,205
REFERENCE/DOCKET NUMBER: UNMB-0001
TELECOMMUNICATION INFORMATION:
TELEPHONE: (703) 817-9453
TELEFAX: (703) 803-9387
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 162 amino acids
TYPE: amino acid
STRANDEDNESS: not relevant
TOPOLOGY: not relevant
MOLECULE TYPE: protein
HYPOTHETICAL: NO
US-08-316-239B-4

Query Match 100.0%; Score 47; DB 1; Length 162;
Best Local Similarity 100.0%; Pred. No. 0.24; Indels 0; Gaps 0;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KFYSKISEY 9
Db 75 KFYSKISEY 83

RESULT 6
US-08-860-165-12
Sequence 12, Application US/08860165A
Patent No. 6004557
GENERAL INFORMATION:
APPLICANT: EDWARDS, Stirling John
APPLICANT: COX, John Cooper
APPLICANT: WEBB, Elizabeth Ann
APPLICANT: FRAZER, Ian
TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
FILE REFERENCE: 17227/130
CURRENT APPLICATION NUMBER: US/08/860,165A
CURRENT FILING DATE: 1997-09-22
EARLIER APPLICATION NUMBER: PCT/AU95/00668
EARLIER FILING DATE: 1995-12-20
EARLIER APPLICATION NUMBER: AU PNO157
EARLIER FILING DATE: 1994-12-20
NUMBER OF SEQ ID NOS: 15
SOFTWARE: Patentln Ver. 2.0
SEQ ID NO 12
LENGTH: 172

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; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Gene Fusion
US-08-860-165-12
Query Match          100.0%; Score 47; DB 2; Length 172;
Best Local Similarity 100.0%; Pred. No. 0.25;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KFSKISEY 9
    |||||
Db 13 KFSKISEY 21

RESULT 7
US-08-860-165-14
; Sequence 14, Application US/08860165A
; Patent No. 6004557
; GENERAL INFORMATION:
; APPLICANT: EDWARDS, Stirling John
; APPLICANT: COX, John Cooper
; APPLICANT: WEBB, Elizabeth Ann
; APPLICANT: FRAZER, Ian
; TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
; FILE REFERENCE: 017227/130
; CURRENT APPLICATION NUMBER: US/08/860,165A
; EARLIER FILING DATE: 1997-09-22
; EARLIER APPLICATION NUMBER: PCT/AU95/00868
; EARLIER FILING DATE: 1995-12-20
; EARLIER APPLICATION NUMBER: AU PNO157
; EARLIER FILING DATE: 1994-12-20
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 14
; LENGTH: 172
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Gene Fusion
US-08-860-165-14
Query Match          100.0%; Score 47; DB 2; Length 172;
Best Local Similarity 100.0%; Pred. No. 0.25;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KFSKISEY 9
    |||||
Db 144 KFSKISEY 152

RESULT 8
US-09-359-382-12
; Sequence 12, Application US/09359382
; Patent No. 6306397
; GENERAL INFORMATION:
; APPLICANT: EDWARDS, Stirling John
; APPLICANT: COX, John Cooper
; APPLICANT: WEBB, Elizabeth Ann
; APPLICANT: FRAZER, Ian
; TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
; FILE REFERENCE: 017227/0148
; CURRENT APPLICATION NUMBER: US/09/359,382
; EARLIER FILING DATE: 1999-07-23
; EARLIER APPLICATION NUMBER: US 08/860,165
; EARLIER FILING DATE: 1997-09-22
; EARLIER APPLICATION NUMBER: PCT/AU95/00868
; EARLIER FILING DATE: 1995-12-20
; EARLIER APPLICATION NUMBER: AU PNO157/94
; EARLIER FILING DATE: 1994-12-20
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 12
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; LENGTH: 172
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-09-359-382-12
Query Match          100.0%; Score 47; DB 2; Length 172;
Best Local Similarity 100.0%; Pred. No. 0.25;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KFSKISEY 9
    |||||
Db 13 KFSKISEY 21

RESULT 9
US-09-359-382-14
; Sequence 14, Application US/09359382
; Patent No. 6306397
; GENERAL INFORMATION:
; APPLICANT: EDWARDS, Stirling John
; APPLICANT: COX, John Cooper
; APPLICANT: WEBB, Elizabeth Ann
; APPLICANT: FRAZER, Ian
; TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
; FILE REFERENCE: 017227/0148
; CURRENT APPLICATION NUMBER: US/09/359,382
; EARLIER FILING DATE: 1999-07-23
; EARLIER APPLICATION NUMBER: US 08/860,165
; EARLIER FILING DATE: 1997-09-22
; EARLIER APPLICATION NUMBER: PCT/AU95/00868
; EARLIER FILING DATE: 1995-12-20
; EARLIER APPLICATION NUMBER: AU PNO157/94
; EARLIER FILING DATE: 1994-12-20
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 14
; LENGTH: 172
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-09-359-382-14
Query Match          100.0%; Score 47; DB 2; Length 172;
Best Local Similarity 100.0%; Pred. No. 0.25;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KFSKISEY 9
    |||||
Db 144 KFSKISEY 152

RESULT 10
US-09-462-993-1
; Sequence 1, Application US/09462993
; Patent No. 6884786
; GENERAL INFORMATION:
; APPLICANT: KIENY, Marie-Paule
; APPLICANT: BALLOU, Jean-Marc
; APPLICANT: BIZOUARNE, Nadine
; TITLE OF INVENTION: ANTITUMORAL COMPOSITION BASED ON IMMUNOGENIC
; FILE REFERENCE: 017753-122
; CURRENT APPLICATION NUMBER: US/09/462,993
; EARLIER FILING DATE: 2000-04-17
; EARLIER APPLICATION NUMBER: PCT/FR98/01576
; EARLIER FILING DATE: 1998-07-17
; EARLIER APPLICATION NUMBER: FR 97/09152
; EARLIER FILING DATE: 1997-07-18
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: PatentIn Ver. 2.2
; SEQ ID NO 1
; LENGTH: 243
; TYPE: PRT
; ORGANISM: Artificial Sequence
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FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Derived from
OTHER INFORMATION: human papillomavirus, strain HPV-16, E6 protein
OTHER INFORMATION: fused F protein signals, clone E6*TMF.
US-09-462-993-1

Query Match 100.0%; Score 47; DB 2; Length 243;
Best Local Similarity 100.0%; Pred. No. 0.36;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KEYSKISEY 9
Db 103 KEYSKISEY 111

RESULT 11
US-08-860-165-10
Sequence 10, Application US/08860165A
Patent No. 6004557
GENERAL INFORMATION:
APPLICANT: EDWARDS, Stirling John
APPLICANT: COX, John Cooper
APPLICANT: WEBB, Elizabeth Ann
APPLICANT: FRAZER, Ian
TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
FILE REFERENCE: 17227/130
CURRENT APPLICATION NUMBER: US/08/860,165A
CURRENT FILING DATE: 1997-09-22
EARLIER APPLICATION NUMBER: PCT/AU95/00868
EARLIER FILING DATE: 1995-12-20
EARLIER APPLICATION NUMBER: AU PNO157
EARLIER FILING DATE: 1994-12-20
NUMBER OF SEQ ID NOS: 15
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 10
LENGTH: 266
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Gene Fusion
US-08-860-165-10

Query Match 100.0%; Score 47; DB 2; Length 266;
Best Local Similarity 100.0%; Pred. No. 0.39;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KEYSKISEY 9
Db 75 KEYSKISEY 83

RESULT 12
US-09-359-382-10
Sequence 10, Application US/09359382
Patent No. 6306397
GENERAL INFORMATION:
APPLICANT: EDWARDS, Stirling John
APPLICANT: COX, John Cooper
APPLICANT: WEBB, Elizabeth Ann
APPLICANT: FRAZER, Ian
TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
FILE REFERENCE: 017227/0148
CURRENT APPLICATION NUMBER: US/09/359,382
CURRENT FILING DATE: 1999-07-23
EARLIER APPLICATION NUMBER: US 08/860,165
EARLIER FILING DATE: 1997-09-22
EARLIER APPLICATION NUMBER: PCT/AU95/00868
EARLIER FILING DATE: 1995-12-20
EARLIER APPLICATION NUMBER: AU PNO157/94
EARLIER FILING DATE: 1994-12-20
NUMBER OF SEQ ID NOS: 27
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 10

LENGTH: 266
TYPE: PRT
ORGANISM: Human papillomavirus type 16
US-09-359-382-10

Query Match 100.0%; Score 47; DB 2; Length 266;
Best Local Similarity 100.0%; Pred. No. 0.39;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KEYSKISEY 9
Db 75 KEYSKISEY 83

RESULT 13
US-09-367-309A-1
Sequence 1, Application US/09367309A
Patent No. 6428807
GENERAL INFORMATION:
APPLICANT: MACFARLAN, RODERICK I.
APPLICANT: MALLIAROS, JIM
TITLE OF INVENTION: CHELATING IMMUNOSTIMULATING COMPLEXES
FILE REFERENCE: 017227/0149
CURRENT APPLICATION NUMBER: US/09/367,309A
CURRENT FILING DATE: 1999-08-11
PRIOR APPLICATION NUMBER: PCT/AU98/00080
PRIOR FILING DATE: 1998-02-13
PRIOR APPLICATION NUMBER: AU PO 5178
PRIOR FILING DATE: 1997-02-19
NUMBER OF SEQ ID NOS: 6
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 1
LENGTH: 266
TYPE: PRT
ORGANISM: Human papillomavirus type 16
US-09-367-309A-1

Query Match 100.0%; Score 47; DB 2; Length 266;
Best Local Similarity 100.0%; Pred. No. 0.39;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KEYSKISEY 9
Db 75 KEYSKISEY 83

RESULT 14
US-09-485-885-4
Sequence 4, Application US/09485885
Patent No. 6342224
GENERAL INFORMATION:
APPLICANT: BRUCK, Claudine
APPLICANT: Cabezon Silva, Teresa
APPLICANT: Delisse, Anne-Marie Eva Bernande
APPLICANT: Gerard, Catherine Marie Ghislaine
APPLICANT: Lombardo-Bencheikh, Angela
TITLE OF INVENTION: Vaccine
FILE REFERENCE: B45107
CURRENT APPLICATION NUMBER: US/09/485,885
CURRENT FILING DATE: 2000-02-18
PRIOR APPLICATION NUMBER: PCT/EP98/05285
PRIOR FILING DATE: 1998-08-17
PRIOR APPLICATION NUMBER: GB 9717953.5
PRIOR FILING DATE: 1997-08-22
NUMBER OF SEQ ID NOS: 23
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 4
LENGTH: 273
TYPE: PRT
ORGANISM: Homo sapien
US-09-485-885-4

Query Match 100.0%; Score 47; DB 2; Length 273;

Best Local Similarity 100.0%; Pred. No. 0.4;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KFYSKISEY 9
Db 181 KFYSKISEY 189

RESULT 15
US-09-485-885-10
; Sequence 10, Application US/09485885
; Patent No. 6342224
; GENERAL INFORMATION:
; APPLICANT: Bruck, Claudine
; APPLICANT: Cabazon Silva, Teresa
; APPLICANT: Delisse, Anne-Marie Eva Fernande
; APPLICANT: Gerard, Catherine Marie Ghislaine
; APPLICANT: Lombardo-Bencheikh, Angela
; TITLE OF INVENTION: Vaccine
; FILE REFERENCE: B45107
; CURRENT APPLICATION NUMBER: US/09/485,885
; CURRENT FILING DATE: 2000-02-18
; PRIOR APPLICATION NUMBER: PCT/EP98/05285
; PRIOR FILING DATE: 1998-08-17
; PRIOR APPLICATION NUMBER: GB 9717953.5
; PRIOR FILING DATE: 1997-08-22
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 10
; LENGTH: 292
; TYPE: PRT
; ORGANISM: Homo sapien
US-09-485-885-10

Query Match 100.0%; Score 47; DB 2; Length 292;
Best Local Similarity 100.0%; Pred. No. 0.43;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KFYSKISEY 9
Db 200 KFYSKISEY 208

RESULT 16
US-09-485-885-6
; Sequence 6, Application US/09485885
; Patent No. 6342224
; GENERAL INFORMATION:
; APPLICANT: Bruck, Claudine
; APPLICANT: Cabazon Silva, Teresa
; APPLICANT: Delisse, Anne-Marie Eva Fernande
; APPLICANT: Gerard, Catherine Marie Ghislaine
; APPLICANT: Lombardo-Bencheikh, Angela
; TITLE OF INVENTION: Vaccine
; FILE REFERENCE: B45107
; CURRENT APPLICATION NUMBER: US/09/485,885
; CURRENT FILING DATE: 2000-02-18
; PRIOR APPLICATION NUMBER: PCT/EP98/05285
; PRIOR FILING DATE: 1998-08-17
; PRIOR APPLICATION NUMBER: GB 9717953.5
; PRIOR FILING DATE: 1997-08-22
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 6
; LENGTH: 371
; TYPE: PRT
; ORGANISM: Homo sapien
US-09-485-885-6

Query Match 100.0%; Score 47; DB 2; Length 371;
Best Local Similarity 100.0%; Pred. No. 0.54;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KFYSKISEY 9
Db 181 KFYSKISEY 189

RESULT 17
US-09-485-885-14
; Sequence 14, Application US/09485885
; Patent No. 6342224
; GENERAL INFORMATION:
; APPLICANT: Bruck, Claudine
; APPLICANT: Cabazon Silva, Teresa
; APPLICANT: Delisse, Anne-Marie Eva Fernande
; APPLICANT: Gerard, Catherine Marie Ghislaine
; APPLICANT: Lombardo-Bencheikh, Angela
; TITLE OF INVENTION: Vaccine
; FILE REFERENCE: B45107
; CURRENT APPLICATION NUMBER: US/09/485,885
; CURRENT FILING DATE: 2000-02-18
; PRIOR APPLICATION NUMBER: PCT/EP98/05285
; PRIOR FILING DATE: 1998-08-17
; PRIOR APPLICATION NUMBER: GB 9717953.5
; PRIOR FILING DATE: 1997-08-22
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 14
; LENGTH: 390
; TYPE: PRT
; ORGANISM: Homo sapien
US-09-485-885-14

Query Match 100.0%; Score 47; DB 2; Length 390;
Best Local Similarity 100.0%; Pred. No. 0.57;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KFYSKISEY 9
Db 200 KFYSKISEY 208

RESULT 18
US-09-701-080C-18
; Sequence 18, Application US/09701080C
; Patent No. 6864054
; GENERAL INFORMATION:
; APPLICANT: INSTITUTE OF MOLECULAR AND CELL BIOLOGY
; TITLE OF INVENTION: POLYPEPTIDES FROM CREB BINDING PROTEIN AND RELATED PROTEIN P300 F
; FILE REFERENCE: N73477C GCM
; CURRENT APPLICATION NUMBER: US/09/701,080C
; CURRENT FILING DATE: 2001-02-27
; PRIOR APPLICATION NUMBER: GB 9811303.8
; PRIOR FILING DATE: 1998-05-26
; PRIOR APPLICATION NUMBER: GB 9900157.0
; PRIOR FILING DATE: 1999-01-05
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 18
; LENGTH: 151
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-09-701-080C-18

Query Match 89.4%; Score 42; DB 2; Length 151;
Best Local Similarity 88.9%; Pred. No. 1.9;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 KFYSKISEY 9
Db 68 KFYSKISEY 76

RESULT 19

US-08-159-339A-75
Sequence 75, Application US/08159339A
Patent No. 6037135
GENERAL INFORMATION:
APPLICANT: Kubo, Ralph T.
APPLICANT: Grey, Howard M.
APPLICANT: Sette, Alessandro
APPLICANT: Celis, Batsman
TITLE OF INVENTION: HLA Binding peptides and Their
TITLE OF INVENTION: Uses
NUMBER OF SEQUENCES: 1254
CORRESPONDENCE ADDRESS:
ADDRESS: Townsend and Townsend and Crew LLP
STREET: Two Embarcadero Center, Eighth Floor
CITY: San Francisco
STATE: CA
COUNTRY: USA
ZIP: 94111-3934
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: PatsEQ for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/159.339A
FILING DATE: 29-NOV-1993
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/926,666
FILING DATE: 07-AUG-1992
APPLICATION NUMBER: US 08/027,746
FILING DATE: 05-MAR-1993
APPLICATION NUMBER: US 08/103,396
FILING DATE: 06-AUG-1993
ATTORNEY/AGENT INFORMATION:
NAME: Weber, Ellen Lauver
REGISTRATION NUMBER: 32,762
REFERENCE/DOCKET NUMBER: 018623-005030US
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 576-0200
TELEFAX: (415) 576-0300
TELEX:
INFORMATION FOR SEQ ID NO: 75:
SEQUENCE CHARACTERISTICS:
LENGTH: 10 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULAR TYPE: peptide
US-08-159-339A-75

Query Match 76.6%; Score 36; DB 2; Length 10;
Best Local Similarity 100.0%; Pred. No. 1.7;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3 YSKISSEY 9
|||||
1 YSKISSEY 7

Db 1 YSKISSEY 7

RESULT 20
US-08-934-915-44
Sequence 44, Application US/08934915
Patent No. 5932412
GENERAL INFORMATION:
APPLICANT: DILLNER, JOAKIM
APPLICANT: DILLNER, LENA
APPLICANT: CHENG, HWE-MING
TITLE OF INVENTION: SYNTHETIC PEPTIDES OF HUMAN
TITLE OF INVENTION: PAPILLOMAVIRUS 1, 5, 6, 8,
TITLE OF INVENTION: 11, 16, 18, 31, 33 AND 56,
TITLE OF INVENTION: USEFUL IN IMMUNOASSAY FOR
TITLE OF INVENTION: DIAGNOSTIC PURPOSES

NUMBER OF SEQUENCES: 193
CORRESPONDENCE ADDRESS:
ADDRESSEE: MASON & ASSOCIATES, P.A.
STREET: 17757 U.S. HWY. 19 NORTH, SUITE 500
CITY: CLEARWATER
STATE: FLORIDA
COUNTRY: U.S.A.
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: Windows 3.0
SOFTWARE: Microsoft Word 6.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/934,915
FILING DATE: 22-SEP-1997
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/949,836
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: LOUISE A. Foutch
REGISTRATION NUMBER: 37,133
REFERENCE/DOCKET NUMBER: 1946.6
TELECOMMUNICATION INFORMATION:
TELEPHONE: 813-538-1800
TELEFAX: 813-538-3820
TELEX:
INFORMATION FOR SEQ ID NO: 44:
SEQUENCE CHARACTERISTICS:
LENGTH: 20 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULAR TYPE: peptide
US-08-934-915-44

Query Match 76.6%; Score 36; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 3.3;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3 YSKISSEY 9
|||||
1 YSKISSEY 7

Db 1 YSKISSEY 7

RESULT 21
US-08-934-915-163
Sequence 163, Application US/08934915
Patent No. 5932412
GENERAL INFORMATION:
APPLICANT: DILLNER, JOAKIM
APPLICANT: DILLNER, LENA
APPLICANT: CHENG, HWE-MING
TITLE OF INVENTION: SYNTHETIC PEPTIDES OF HUMAN
TITLE OF INVENTION: PAPILLOMAVIRUS 1, 5, 6, 8,
TITLE OF INVENTION: 11, 16, 18, 31, 33 AND 56,
TITLE OF INVENTION: USEFUL IN IMMUNOASSAY FOR
NUMBER OF SEQUENCES: 193
CORRESPONDENCE ADDRESS:
ADDRESSEE: MASON & ASSOCIATES, P.A.
STREET: 17757 U.S. HWY. 19 NORTH, SUITE 500
CITY: CLEARWATER
STATE: FLORIDA
COUNTRY: U.S.A.
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: Windows 3.0
SOFTWARE: Microsoft Word 6.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/934,915
FILING DATE: 22-SEP-1997
CLASSIFICATION: 435

PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/949,836
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: LOUISE A. Fouch
REGISTRATION NUMBER: 37,133
REFERENCE/DOCKET NUMBER: 1946.6
TELECOMMUNICATION INFORMATION:
TELEPHONE: 813-538-3800
TELEFAX: 813-538-3820
TELEX:
INFORMATION FOR SEQ ID NO: 163:
SEQUENCE CHARACTERISTICS:
LENGTH: 20 amino acids
TYPE: amino acid
TOPOLOGY: linear
US-08-934-915-163

Query Match 76.6%; Score 36; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 3.3;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3 YSKISEY 9
|||||
DB 1 YSKISEY 7

RESULT 22
US-08-934-915-162
Sequence 162, Application US/08934915
Patent No. 5932412
GENERAL INFORMATION:
APPLICANT: DILLNER, JOAKIM
APPLICANT: DILLNER, LENA
TITLE OF INVENTION: SYNTHETIC PEPTIDES OF HUMAN
TITLE OF INVENTION: PAPILLOMAVIRUS 1, 5, 6, 8,
TITLE OF INVENTION: 11, 16, 18, 31, 33 AND 56,
TITLE OF INVENTION: USEFUL IN IMMUNOSSAY FOR
TITLE OF INVENTION: DIAGNOSTIC PURPOSES
NUMBER OF SEQUENCES: 193
CORRESPONDENCE ADDRESS:
ADDRESSEE: MASON & ASSOCIATES, P.A.
STREET: 17757 U.S. HWY. 19 NORTH, SUITE 500
CITY: CLEARWATER
STATE: FLORIDA
COUNTRY: U.S.A.
COMPUTER READABLE FORM:
MEDIUM TYPE: floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: windows 3.0
SOFTWARE: Microsoft Word 6.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/934,915
FILING DATE: 22-SEP-1997
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/949,836
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: LOUISE A. Fouch
REGISTRATION NUMBER: 37,133
REFERENCE/DOCKET NUMBER: 1946.6
TELECOMMUNICATION INFORMATION:
TELEPHONE: 813-538-3800
TELEFAX: 813-538-3820
TELEX:
INFORMATION FOR SEQ ID NO: 162:
SEQUENCE CHARACTERISTICS:
LENGTH: 20 amino acids
TYPE: amino acid
TOPOLOGY: linear

MOLECULE TYPE: peptide
US-08-934-915-162

Query Match 74.5%; Score 35; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 5.1;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KEYSKIS 7
|||||
DB 14 KEYSKIS 20

RESULT 23
US-09-270-767-39745
Sequence 39745, Application US/09270767
Patent No. 6703491
GENERAL INFORMATION:
APPLICANT: Homburger et al.
TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
FILE REFERENCE: File Reference: 7326-094
CURRENT APPLICATION NUMBER: US/09/270,767
CURRENT FILING DATE: 1999-03-17
NUMBER OF SEQ ID NOS: 62517
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 39745
LENGTH: 54
TYPE: PRT
ORGANISM: Drosophila melanogaster
US-09-270-767-39745

Query Match 74.5%; Score 35; DB 2; Length 54;
Best Local Similarity 66.7%; Pred. No. 14;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 KEYSKISEY 9
|||||
DB 15 KEYSKISEY 23

RESULT 24
US-09-270-767-54962
Sequence 54962, Application US/09270767
Patent No. 6703491
GENERAL INFORMATION:
APPLICANT: Homburger et al.
TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
FILE REFERENCE: File Reference: 7326-094
CURRENT APPLICATION NUMBER: US/09/270,767
CURRENT FILING DATE: 1999-03-17
NUMBER OF SEQ ID NOS: 62517
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 54962
LENGTH: 54
TYPE: PRT
ORGANISM: Drosophila melanogaster
US-09-270-767-54962

Query Match 74.5%; Score 35; DB 2; Length 54;
Best Local Similarity 66.7%; Pred. No. 14;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 KEYSKISEY 9
|||||
DB 15 KEYSKISEY 23

RESULT 25
US-09-134-000C-5828
Sequence 5828, Application US/09134000C
Patent No. 6617156
GENERAL INFORMATION:
APPLICANT: Lynn Doucette-Stamm et al
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO

;; TITLE OF INVENTION: ENTEROCOCCUS FAECALIS FOR DIAGNOSTICS AND THERAPEUTICS
;; FILE REFERENCE: 032796-032
;; CURRENT APPLICATION NUMBER: US/09/134,000C
;; CURRENT FILING DATE: 1998-08-13
;; PRIOR APPLICATION NUMBER: US 60/055,778
;; PRIOR FILING DATE: 1997-08-15
;; NUMBER OF SEQ ID NOS: 6812
;; SOFTWARE: PatentIn version 3.1
;; SEQ ID NO 5828
;; LENGTH: 604
;; TYPE: PRT
;; ORGANISM: Enterococcus faecalis
US-09-134-000C-5828

Query Match 74.5%; Score 35; DB 1; Length 604;
Best Local Similarity 66.7%; Pred. No. 1.7e+02;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 KFYSKIKEY 9
Db 107 KFYSFVSGY 115

RESULT 26
US-08-221-817-19
; Sequence 19, Application US/08221817
; Patent No. 5532151
; GENERAL INFORMATION:
; APPLICANT: Chantry, David
; APPLICANT: Gray, Patrick W.
; APPLICANT: Hoekstra, Merle F.
; TITLE OF INVENTION: A No. 5532151e1 G Protein-Coupled Receptor
; TITLE OF INVENTION: Kinase GRK6
; NUMBER OF SEQUENCES: 24
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Marshall, O'Toole, Gerstein, Murray &
; ADDRESSER: Borun
; STREET: 6300 Sears Tower, 233 South Wacker Drive
; CITY: Chicago
; STATE: Illinois
; COUNTRY: USA
; ZIP: 60606
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/221,817
; FILING DATE:
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/123,932
; FILING DATE: 17 SEP 1993
; ATTORNEY/AGENT INFORMATION:
; NAME: No. 5532151and, Greta E.
; REGISTRATION/DOCKET NUMBER: 35,302
; TELEPHONE: (312) 474-6300
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (312) 474-6300
; TELEFAX: (312) 474-0448
; TELEX: 25-3856
; INFORMATION FOR SEQ ID NO: 19:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 688 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-221-817-19

Query Match 74.5%; Score 35; DB 1; Length 688;
Best Local Similarity 66.7%; Pred. No. 1.7e+02;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 KFYSKIKEY 9
Db 84 KFYEBIKY 92

RESULT 27
US-08-454-439-19
; Sequence 19, Application US/08454439
; Patent No. 5591618
; GENERAL INFORMATION:
; APPLICANT: Chantry, David
; APPLICANT: Gray, Patrick W.
; APPLICANT: Hoekstra, Merle F.
; TITLE OF INVENTION: A No. 5591618e1 G Protein-Coupled Receptor
; TITLE OF INVENTION: Kinase GRK6
; NUMBER OF SEQUENCES: 24
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Marshall, O'Toole, Gerstein, Murray &
; ADDRESSER: Borun
; STREET: 6300 Sears Tower, 233 South Wacker Drive
; CITY: Chicago
; STATE: Illinois
; COUNTRY: USA
; ZIP: 60606
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/454,439
; FILING DATE: 30-MAY-1995
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/221,817
; FILING DATE: 31-MAR-1994
; APPLICATION NUMBER: 08/123,932
; FILING DATE: 17 SEP 1993
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: No. 5591618and, Greta E.
; REGISTRATION/DOCKET NUMBER: 35,302
; TELEPHONE: (312) 474-6300
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (312) 474-6300
; TELEFAX: (312) 474-0448
; TELEX: 25-3856
; INFORMATION FOR SEQ ID NO: 19:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 688 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-454-439-19

Query Match 74.5%; Score 35; DB 1; Length 688;
Best Local Similarity 66.7%; Pred. No. 1.7e+02;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 KFYSKIKEY 9
Db 84 KFYEBIKY 92

RESULT 28
PCT-US94-10487-19
; Sequence 19, Application PC/TUS9410487
; GENERAL INFORMATION:
; APPLICANT: ICOS Corporation
; TITLE OF INVENTION: A Novel G Protein-Coupled Receptor
; TITLE OF INVENTION: Kinase GRK6
; NUMBER OF SEQUENCES: 24

;; CORRESPONDENCE ADDRESS:
;; ADDRESSEE: Marshall, O'Toole, Gerstein, Murray &
;; ADDRESSEE: Borun
;; STREET: 6300 Sears Tower, 233 South Wacker Drive
;; CITY: Chicago
;; STATE: Illinois
;; COUNTRY: USA
;; ZIP: 60606
;;
;; COMPUTER READABLE FORM:
;; MEDIUM TYPE: Floppy disk
;; COMPUTER: IBM PC compatible
;; OPERATING SYSTEM: PC-DOS/MS-DOS
;; SOFTWARE: Patent Release #1.0, Version #1.25
;;
;; CURRENT APPLICATION DATA:
;; APPLICATION NUMBER: PCT/US94/10487
;; FILING DATE:
;; CLASSIFICATION:
;; PRIOR APPLICATION DATA:
;; APPLICATION NUMBER: 08/221,817
;; FILING DATE: 31 MAR 1994
;; CLASSIFICATION:
;; PRIOR APPLICATION DATA:
;; APPLICATION NUMBER: 08/123,932
;; FILING DATE: 17 SEP 1993
;; CLASSIFICATION:
;; ATTORNEY/AGENT INFORMATION:
;; NAME: Noland, Grete E.
;; REGISTRATION NUMBER: 35,302
;; REFERENCE/DOCKET NUMBER: 27866/31981
;; TELECOMMUNICATION INFORMATION:
;; TELEPHONE: (312) 474-6300
;; TELEFAX: (312) 474-0448
;; TELEX: 25-3856
;;
;; INFORMATION FOR SEQ ID NO: 19:
;; SEQUENCE CHARACTERISTICS:
;; LENGTH: 688 amino acids
;; TYPE: amino acid
;; TOPOLOGY: linear
;; MOLECULE TYPE: protein
;; PCT-US94-10487-19

Query Match 74.5%; Score 35; DB 4; Length 688;
Best Local Similarity 66.7%; Pred. No. 1.7e+02;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 KFYKISLEY 9
|||:|:|
Db 84 KFYEKIKEY 92

RESULT 29
US-09-949-016-10644
; Sequence 10644, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; FILE REFERENCE: C1001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 10644
; LENGTH: 698
; TYPE: PRT
; ORGANISM: Human

US-09-949-016-10644

Query Match 74.5%; Score 35; DB 2; Length 698;
Best Local Similarity 66.7%; Pred. No. 1.7e+02;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 KFYKISLEY 9
|||:|:|
Db 94 KFYEKIKEY 102

RESULT 30
US-09-107-532A-4977
; Sequence 4977, Application US/09107532A
; Patent No. 6583275
; GENERAL INFORMATION:
; APPLICANT: Lynn A Doucette-Stamm and David Bush
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO
; ENTEROCOCCUS FAECIUM FOR DIAGNOSTICS AND THERAPEUTICS
; NUMBER OF SEQUENCES: 7310
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: GENOME THERAPEUTICS CORPORATION
; STREET: 100 Beaver Street
; CITY: Waltham
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: CD-ROM ISO9660
; COMPUTER: PC
; OPERATING SYSTEM: <Unknown>
; SOFTWARE: ASCII
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/107,532A
; FILING DATE: 30-Jun-1998
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 60/085,598
; FILING DATE: 14 May 1998
; APPLICATION NUMBER: 60/051571
; FILING DATE: July 2, 1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Atinello, Pamela Deneke
; REGISTRATION NUMBER: 40,489
; REFERENCE/DOCKET NUMBER: GTC-012
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (781)893-5007
; TELEFAX: (781)893-8277
; INFORMATION FOR SEQ ID NO: 4977:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 112 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; HYPOTHETICAL: YES
; ORIGINAL SOURCE:
; ORGANISM: Enterococcus faecium
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (B) LOCATION 1...112
; SEQUENCE DESCRIPTION: SEQ ID NO: 4977:
US-09-107-532A-4977

Query Match 72.3%; Score 34; DB 2; Length 112;
Best Local Similarity 55.6%; Pred. No. 42;
Matches 5; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY 1 KFYKISLEY 9
|||:|:|
Db 71 KFYKISLEY 79

RESULT 31
US-09-248-796A-23345


```
/ Sequence 23345, Application US/09248796A
/ Patent No. 6747137
/ GENERAL INFORMATION:
/ APPLICANT: Keith Weinstein et al
/ TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDA ALBICAN
/ TITLE OF INVENTION: FOR DIAGNOSTICS AND THERAPEUTICS
/ FILE REFERENCE: 107196.132
/ CURRENT APPLICATION NUMBER: US/09/248,796A
/ PRIOR FILING DATE: 1999-02-12
/ PRIOR APPLICATION NUMBER: US 60/074,725
/ PRIOR FILING DATE: 1998-02-13
/ PRIOR APPLICATION NUMBER: US 60/096,409
/ PRIOR FILING DATE: 1998-08-13
/ NUMBER OF SEQ ID NOS: 28208
/ SEQ ID NO 23345
/ LENGTH: 97
/ TYPE: PRT
/ ORGANISM: Candida albicans
US-09-248-796A-23345

Query Match
Best Local Similarity 70.2%; Score 33; DB 2; Length 97;
Matches 5; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 1 KEYSKISEY 9
DB 37 EFNVDVSEY 45

RESULT 32
US-09-248-796A-21349
/ Sequence 21349, Application US/09248796A
/ Patent No. 6747137
/ GENERAL INFORMATION:
/ APPLICANT: Keith Weinstein et al
/ TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDA ALBICAN
/ TITLE OF INVENTION: FOR DIAGNOSTICS AND THERAPEUTICS
/ FILE REFERENCE: 107196.132
/ CURRENT APPLICATION NUMBER: US/09/248,796A
/ PRIOR FILING DATE: 1999-02-12
/ PRIOR APPLICATION NUMBER: US 60/074,725
/ PRIOR FILING DATE: 1998-02-13
/ PRIOR APPLICATION NUMBER: US 60/096,409
/ PRIOR FILING DATE: 1998-08-13
/ NUMBER OF SEQ ID NOS: 28208
/ SEQ ID NO 21349
/ LENGTH: 206
/ TYPE: PRT
/ ORGANISM: Candida albicans
US-09-248-796A-21349

Query Match
Best Local Similarity 70.2%; Score 33; DB 2; Length 206;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 2 FYKSISEY 9
DB 154 FYKSIHF 161

RESULT 33
US-09-134-000C-3778
/ Sequence 3778, Application US/09134000C
/ Patent No. 6617156
/ GENERAL INFORMATION:
/ APPLICANT: Lynn Doucette-Stamm et al
/ TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO
/ TITLE OF INVENTION: ENTEROCOCCUS FAECALIS FOR DIAGNOSTICS AND THERAPEUTICS
/ FILE REFERENCE: 032796-032
/ CURRENT APPLICATION NUMBER: US/09/134,000C
/ PRIOR FILING DATE: 1998-08-13
/ PRIOR APPLICATION NUMBER: US 60/055,778
/ PRIOR FILING DATE: 1997-08-15
```

```
/ NUMBER OF SEQ ID NOS: 6812
/ SOFTWARE: PatentIn version 3.1
/ SEQ ID NO 3778
/ LENGTH: 215
/ TYPE: PRT
/ ORGANISM: Enterococcus faecalis
US-09-134-000C-3778

Query Match
Best Local Similarity 70.2%; Score 33; DB 2; Length 215;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 KEYSKISEY 9
DB 131 KEYSIKDY 139

RESULT 34
US-09-134-000C-4716
/ Sequence 4716, Application US/09134000C
/ Patent No. 6617156
/ GENERAL INFORMATION:
/ APPLICANT: Lynn Doucette-Stamm et al
/ TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO
/ TITLE OF INVENTION: ENTEROCOCCUS FAECALIS FOR DIAGNOSTICS AND THERAPEUTICS
/ FILE REFERENCE: 032796-032
/ CURRENT APPLICATION NUMBER: US/09/134,000C
/ PRIOR FILING DATE: 1998-08-13
/ PRIOR APPLICATION NUMBER: US 60/055,778
/ PRIOR FILING DATE: 1997-08-15
/ NUMBER OF SEQ ID NOS: 6812
/ SOFTWARE: PatentIn version 3.1
/ SEQ ID NO 4716
/ LENGTH: 236
/ TYPE: PRT
/ ORGANISM: Enterococcus faecalis
US-09-134-000C-4716

Query Match
Best Local Similarity 70.2%; Score 33; DB 2; Length 236;
Matches 5; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 1 KEYSKISEY 9
DB 213 KEYSKMDY 221

RESULT 35
US-09-583-110-3313
/ Sequence 3313, Application US/09583110
/ Patent No. 6699703
/ GENERAL INFORMATION:
/ APPLICANT: Lynn Doucette-Stamm et al.
/ TITLE OF INVENTION: Nucleic Acid and Amino Acid Sequences Relating to Streptococcus
/ TITLE OF INVENTION: Pneumoniae for Diagnostics and Therapeutics
/ FILE REFERENCE: PATH00-07A
/ CURRENT APPLICATION NUMBER: US/09/583,110
/ PRIOR FILING DATE: 2000-05-26
/ PRIOR APPLICATION NUMBER: US 09/107,433
/ PRIOR FILING DATE: 1998-06-30
/ PRIOR APPLICATION NUMBER: US 60/085,131
/ PRIOR FILING DATE: 1998-05-12
/ PRIOR APPLICATION NUMBER: US 60/051,553
/ PRIOR FILING DATE: 1997-07-02
/ NUMBER OF SEQ ID NOS: 5322
/ SEQ ID NO 3313
/ LENGTH: 325
/ TYPE: PRT
/ ORGANISM: Streptococcus pneumoniae
US-09-583-110-3313

Query Match
Best Local Similarity 70.2%; Score 33; DB 2; Length 325;
Matches 55.6%; Pred. No. 1.9e+02;
```

Matches 5; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

Qy 1 KFYKISSEY 9
||| : :|

Db 70 KFYKVFQY 78

RESULT 36
US-09-769-787-141

; Sequence 141, Application US/09769787
; Patent No. 6936252

; GENERAL INFORMATION:
; APPLICANT: Microbial Technics Limited

; APPLICANT: Gilbert, Christophe FG

; APPLICANT: HamBio, Philip M

; TITLE OF INVENTION: Proteins

; FILE REFERENCE: PMC/P21129WO

; CURRENT APPLICATION NUMBER: US/09-769,787

; CURRENT FILING DATE: 2001-01-26

; PRIOR APPLICATION NUMBER: GB 9816337.1

; PRIOR FILING DATE: 1998-03-27

; PRIOR APPLICATION NUMBER: US 60/125164

; PRIOR FILING DATE: 1999-03-19

; NUMBER OF SEQ ID NOS: 388

; SOFTWARE: PatentIn Ver. 2.1

; SEQ ID NO 141

; LENGTH: 325

; TYPE: PRT

; ORGANISM: Streptococcus pneumoniae

US-09-769-787-141

Query Match 70.2%; Score 33; DB 2; Length 325;

Best Local Similarity 55.6%; Pred. No. 1.9e+02;

Matches 5; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

Qy 1 KFYKISSEY 9
||| : :|

Db 70 KFYKVFQY 78

RESULT 37
US-09-270-767-43778

; Sequence 43778, Application US/09270767

; Patent No. 6703491

; GENERAL INFORMATION:
; APPLICANT: Homburger et al.

; TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster

; FILE REFERENCE: File Reference: 7326-094

; CURRENT APPLICATION NUMBER: US/09/270,767

; CURRENT FILING DATE: 1999-03-17

; NUMBER OF SEQ ID NOS: 62517

; SOFTWARE: PatentIn Ver. 2.0

; SEQ ID NO 43778

; LENGTH: 340

; TYPE: PRT

; ORGANISM: Drosophila melanogaster

; FEATURE:
; OTHER INFORMATION: Xaa means any amino acid

US-09-270-767-43778

Query Match 70.2%; Score 33; DB 2; Length 340;

Best Local Similarity 85.7%; Pred. No. 1.9e+02;

Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 3 YSKISEY 9
||| : :|

Db 218 YSRISEY 224

RESULT 38
US-09-107-433-4173

; Sequence 4173, Application US/09107433

; Patent No. 6800744

; GENERAL INFORMATION:

; APPLICANT: Lynn A Doucette-Stamm and David Bush

; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID
SEQUENCES RELATING TO STREPTOCOCCUS PNEUMONIAE FOR DIAGNO-

SEQUENCES RELATING TO STREPTOCOCCUS PNEUMONIAE
THERAPEUTICS

; NUMBER OF SEQUENCES: 5206

; CORRESPONDENCE ADDRESS:
ADDRESS: GENOME THERAPEUTICS CORPORATION

STREET: 100 Beaver Street

CITY: Waltham

STATE: Massachusetts

COUNTRY: USA

ZIP: 02354

COMPUTER READABLE FORM:
MEDIUM TYPE: CD-ROM ISO9660

COMPUTER: <Unknown>

OPERATING SYSTEM: <Unknown>

SOFTWARE: <Unknown>

CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/107,433

FILING DATE: 30-Jun-1998

PRIOR APPLICATION DATA:
APPLICATION NUMBER: 60/ 085131

FILING DATE: May 12, 1998

APPLICATION NUMBER: 60/051553

FILING DATE: July 2, 1997

ATTORNEY/AGENT INFORMATION:
NAME: Arinello, Pamela Deneke

REGISTRATION NUMBER: 40,489

REFERENCE/DOCKET NUMBER: GTC-011

TELECOMMUNICATION INFORMATION:
TELEPHONE: (781)893-5007

TELEFAX: (781)893-8277

INFORMATION FOR SEQ ID NO: 4173:

SEQUENCE CHARACTERISTICS:
LENGTH: 340 amino acids

TYPE: amino acid

TOPOLOGY: linear

MOLECULE TYPE: protein

HYPOTHETICAL: YES

ORIGINAL SOURCE:
ORGANISM: Streptococcus pneumoniae

FEATURE:
NAME/KEY: misc feature

LOCATION: (B) LOCATION 1...340

SEQUENCE DESCRIPTION: SEQ ID NO: 4173:

US-09-107-433-4173

Query Match 70.2%; Score 33; DB 2; Length 340;

Best Local Similarity 55.6%; Pred. No. 1.9e+02;

Matches 5; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

Qy 1 KFYKISSEY 9
||| : :|

Db 85 KFYKVFQY 93

RESULT 39
US-09-532-310B-5

; Sequence 5, Application US/09532310B

; Patent No. 6596276

; GENERAL INFORMATION:
; APPLICANT: Senger, Donald R

; APPLICANT: Decmar, Michael

; TITLE OF INVENTION: Method for inhibiting tumor
angiogenesis in a living subject

NUMBER OF SEQUENCES: 6
CORRESPONDENCE ADDRESS:
ADDRESS: David Fraahker, Esq.
STREET: P.O. Box 5387
CITY: Magnolia
STATE: Massachusetts

```
/
/ COUNTRY: USA
/ ZIP: 01930
/ COMPUTER READABLE FORM:
/ MEDIUM TYPE: Diskette, 3.50 inch, 1.40 Mb storage
/ COMPUTER: Dell PC
/ OPERATING SYSTEM: MS DOS
/ SOFTWARE: Microsoft Word version 97
/ CURRENT APPLICATION DATA:
/ APPLICATION NUMBER: US/09/532,310B
/ FILING DATE: 22-Mar-2000
/ CLASSIFICATION: Unknown
/ ATTORNEY/AGENT INFORMATION:
/ NAME: David Praisner, Esq.
/ REGISTRATION NUMBER: 29,693
/ REFERENCE/DOCKET NUMBER: BIS-036
/ TELECOMMUNICATION INFORMATION:
/ TELEPHONE: (978) 525-3794
/ INFORMATION FOR SEQ ID NO: 5:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 1183 amino acids
/ TYPE: amino acid
/ STRANDEDNESS: single
/ TOPOLOGY: linear
/ MOLECULE TYPE: peptide
/ SEQUENCE DESCRIPTION: SEQ ID NO: 5:
US-09-532-310B-5

Query Match 70.2% Score 33; DB 2; Length 1183;
Best Local Similarity 66.7%; Pred. No. 6.6e+02;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 KEYSKISEY 9
Db 955 QFYSSASSEY 963

RESULT 40
US-09-134-000C-6133
/ Sequence 6133, Application US/09134000C
/ Patent No. 6617156
/ GENERAL INFORMATION:
/ APPLICANT: Lynn Doucette-Stamm et al
/ TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO
/ FILE REFERENCE: 032796-032
/ CURRENT APPLICATION NUMBER: US/09/134,000C
/ CURRENT FILING DATE: 1998-08-13
/ PRIOR APPLICATION NUMBER: US 60/055,778
/ PRIOR FILING DATE: 1997-08-15
/ NUMBER OF SEQ ID NOS: 6812
/ SOFTWARE: PatentIn version 3.1
/ SEQ ID NO 6133
/ LENGTH: 1439
/ TYPE: PRT
/ ORGANISM: Enterococcus faecalis
US-09-134-000C-6133

Query Match 70.2% Score 33; DB 2; Length 1439;
Best Local Similarity 66.7%; Pred. No. 8e+02;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 KEYSKISEY 9
Db 650 KYTGKISIVY 658

RESULT 41
US-08-418-893D-2
/ Sequence 2, Application US/08418893D
/ Patent No. 5559220
/ GENERAL INFORMATION:
/ APPLICANT: ROESSLER, PAUL G
/ APPLICANT: OHLROGB, JOHN B
```

```
/
/ TITLE OF INVENTION: GENE THAT ENCODES ACETYL-COENZYME A
/ TITLE OF INVENTION: CARBOXYLASE FROM CYCLOTELLA CRYPTICA
/ NUMBER OF SEQUENCES: 25
/ CORRESPONDENCE ADDRESS:
/ ADDRESSER: NATIONAL RENEWABLE ENERGY LABORATORY
/ STREET: 1617 Cole Blvd.
/ CITY: Golden
/ STATE: CO
/ COUNTRY: USA
/ ZIP: 80401-3393
/ COMPUTER READABLE FORM:
/ MEDIUM TYPE: Floppy disk
/ COMPUTER: IBM PC compatible
/ OPERATING SYSTEM: PC-DOS/MS-DOS
/ SOFTWARE: PatentIn Release #1.0, Version #1.25
/ CURRENT APPLICATION DATA:
/ APPLICATION NUMBER: US/08/418,893D
/ FILING DATE: April 7, 1995
/ CLASSIFICATION: 800
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: US 08/104,938
/ FILING DATE: September 14, 1993
/ CLASSIFICATION: 800
/ ATTORNEY/AGENT INFORMATION:
/ NAME: O'CONNOR, EDNA
/ REGISTRATION NUMBER: 29,252
/ REFERENCE/DOCKET NUMBER: MRI/NREL IR# 92-48CON
/ TELECOMMUNICATION INFORMATION:
/ TELEPHONE: 303-231-1000
/ TELEFAX: 303-231-1098
/ TELEX:
/ INFORMATION FOR SEQ ID NO: 2:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 51 amino acids
/ TYPE: amino acid
/ STRANDEDNESS: single
/ TOPOLOGY: linear
/ MOLECULE TYPE: protein
/ HYPOTHETICAL: NO
/ ANTI-SENSE: NO
/ FRAGMENT TYPE: Internal
US-08-418-893D-2

Query Match 68.1% Score 32; DB 1; Length 51;
Best Local Similarity 44.4%; Pred. No. 46;
Matches 4; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

QY 1 KEYSKISEY 9
Db 24 EFNKVTXY 32

RESULT 42
US-09-248-796A-28037
/ Sequence 28037, Application US/09248796A
/ Patent No. 6747137
/ GENERAL INFORMATION:
/ APPLICANT: Keith Weinstein et al
/ TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDA ALBICAN
/ FILE REFERENCE: 107196.132
/ CURRENT APPLICATION NUMBER: US/09/248,796A
/ CURRENT FILING DATE: 1999-02-12
/ PRIOR APPLICATION NUMBER: US 60/074,725
/ PRIOR FILING DATE: 1998-02-13
/ PRIOR APPLICATION NUMBER: US 60/096,409
/ PRIOR FILING DATE: 1998-08-13
/ NUMBER OF SEQ ID NOS: 28208
/ SEQ ID NO 28037
/ LENGTH: 132
/ TYPE: PRT
/ ORGANISM: Candida albicans
US-09-248-796A-28037
```

Query Match 68.1%; Score 32; DB 2; Length 132;
Best Local Similarity 85.7%; Pred. No. 1.2e+02;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Oy 3 YSKISEY 9
|||
Db 111 YSKIKEY 117

RESULT 43
US-09-248-796A-18661
; Sequence 18661, Application US/09248796A
; Patent No. 6747137
; GENERAL INFORMATION:
; APPLICANT: Keith Weinstein et al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDA ALBICAN
; FILE REFERENCE: 107196.132
; CURRENT APPLICATION NUMBER: US/09/248,796A
; CURRENT FILING DATE: 1999-02-12
; PRIOR APPLICATION NUMBER: US 60/074,725
; PRIOR FILING DATE: 1998-02-13
; PRIOR APPLICATION NUMBER: US 60/096,409
; PRIOR FILING DATE: 1998-08-13
; NUMBER OF SEQ ID NOS: 28208
; SEQ ID NO 18661
; LENGTH: 289
; TYPE: PRT
; ORGANISM: Candida albicans
US-09-248-796A-18661

Query Match 68.1%; Score 32; DB 2; Length 289;
Best Local Similarity 85.7%; Pred. No. 2.5e+02;
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Oy 2 FYSKISE 8
|||||
Db 161 FYSKIKE 167

RESULT 44
US-09-107-532A-4349
; Sequence 4349, Application US/09107532A
; Patent No. 6583275
; GENERAL INFORMATION:
; APPLICANT: Lynn A Doucette-Stamm and David Bush
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO
; ENTEROCOCCUS FAECIUM FOR DIAGNOSTICS AND THERAPEUTICS
; NUMBER OF SEQUENCES: 7310
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: GENOME THERAPEUTICS CORPORATION
; STREET: 100 Beaver Street
; CITY: Waltham
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02354
; COMPUTER READABLE FORM:
; MEDIUM TYPE: CD-ROM ISO9660
; COMPUTER: PC
; OPERATING SYSTEM: <Unknown>
; SOFTWARE: ASCII
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/107,532A
; FILING DATE: 30-Jun-1998
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 60/085,598
; FILING DATE: 14 May 1998
; APPLICATION NUMBER: 60/051571
; FILING DATE: July 2, 1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Arinello, Pamela Deneke
; REGISTRATION NUMBER: 40,489

REFERENCE/DOCKET NUMBER: GTC-012
TELECOMMUNICATION INFORMATION:
TELEPHONE: (781)893-5007
TELEFAX: (781)893-8277

INFORMATION FOR SEQ ID NO: 4349:
SEQUENCE CHARACTERISTICS:
LENGTH: 338 amino acids
TYPE: amino acid

TOPOLOGY: linear
MOLECULE TYPE: Protein
HYPOTHETICAL: YES
ORIGINAL SOURCE:
ORGANISM: Enterococcus faecium

FEATURE:
NAME/KEY: misc_feature
LOCATION: (8) LOCATION 1...338
SEQUENCE DESCRIPTION: SEQ ID NO: 4349;

US-09-107-532A-4349

Query Match 68.1%; Score 32; DB 2; Length 338;
Best Local Similarity 62.5%; Pred. No. 2.9e+02;
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Oy 1 KFYSKISE 8
|:|:|:|
Db 325 KYFSKIVE 332

RESULT 45
US-09-248-796A-18642
; Sequence 18642, Application US/09248796A
; Patent No. 6747137
; GENERAL INFORMATION:
; APPLICANT: Keith Weinstein et al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDA ALBICAN
; FILE REFERENCE: 107196.132
; CURRENT APPLICATION NUMBER: US/09/248,796A
; CURRENT FILING DATE: 1999-02-12
; PRIOR APPLICATION NUMBER: US 60/074,725
; PRIOR FILING DATE: 1998-02-13
; PRIOR APPLICATION NUMBER: US 60/096,409
; PRIOR FILING DATE: 1998-08-13
; NUMBER OF SEQ ID NOS: 28208
; SEQ ID NO 18642
; LENGTH: 421
; TYPE: PRT
; ORGANISM: Candida albicans
US-09-248-796A-18642

Query Match 68.1%; Score 32; DB 2; Length 421;
Best Local Similarity 44.4%; Pred. No. 3.7e+02;
Matches 4; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

Oy 1 KFYSKISEY 9
::|:|:|
Db 212 RYFKKNEY 220

RESULT 46
US-09-543-681A-5186
; Sequence 5186, Application US/09543681A
; Patent No. 6605709
; GENERAL INFORMATION:
; APPLICANT: GARY BRETON
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PROTEUS MIRABILIS
; FILE REFERENCE: 2709.1002-001
; CURRENT APPLICATION NUMBER: US/09/543,681A
; CURRENT FILING DATE: 2000-04-05
; PRIOR APPLICATION NUMBER: US 60/128,706
; PRIOR FILING DATE: 1999-04-09
; NUMBER OF SEQ ID NOS: 8344

SEQ ID NO 5186
LENGTH: 478
TYPE: PRT
ORGANISM: Proteus mirabilis
US-09-543-681A-5186

Query Match 68.1%; Score 32; DB 2; Length 478;
Best Local Similarity 55.6%; Pred. No. 4.1e+02;
Matches 5; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 1 KEYSKISSEY 9
DB 280 KEYQLEBH 288

RESULT 47
US-09-252-991A-31878
Sequence 31878, Application US/09252991A
Patent No. 6551795

GENERAL INFORMATION:
APPLICANT: Marc J. Rubenstein et al.
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
FILE REFERENCE: 107196.136
CURRENT APPLICATION NUMBER: US/09/252,991A
CURRENT FILING DATE: 1999-02-18
PRIOR APPLICATION NUMBER: US 60/074,788
PRIOR FILING DATE: 1998-02-18
PRIOR APPLICATION NUMBER: US 60/094,190
PRIOR FILING DATE: 1998-07-27
NUMBER OF SEQ ID NOS: 33142
SEQ ID NO 31878
LENGTH: 529
TYPE: PRT
ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-31878

Query Match 68.1%; Score 32; DB 2; Length 529;
Best Local Similarity 66.7%; Pred. No. 4.6e+02;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 KEYSKISSEY 9
DB 271 KDYSRIABY 279

RESULT 48
US-08-354-973-1
Sequence 1, Application US/08354973
Patent No. 5641666

GENERAL INFORMATION:
APPLICANT: Vahlensieck, Hans-Friedrich
APPLICANT: Hinnen, Albert
TITLE OF INVENTION: Fungi Resistant to Scraphen A
NUMBER OF SEQUENCES: 1
CORRESPONDENCE ADDRESS:
ADDRESS: Ciba-Geigy Corporation
STREET: Patent Dept., 520 White Plains Rd., POB 2005
CITY: Tarrytown
STATE: NY
COUNTRY: USA
ZIP: 10591-9005
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/354,973
FILING DATE: 13-DEC-1994
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Pace, Gary

REGISTRATION NUMBER: 40,403
REFERENCE/DOCKET NUMBER: PF/5-19802/A
TELECOMMUNICATION INFORMATION:
TELEPHONE: 919-541-8582
TELEFAX: 919-541-8689

INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 2237 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: Protein
HYPOTHETICAL: NO
US-08-354-973-1

Query Match 68.1%; Score 32; DB 1; Length 2237;
Best Local Similarity 44.4%; Pred. No. 1.9e+03;
Matches 4; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

QY 1 KEYSKISSEY 9
DB 1602 EFFNRYTEY 1610

RESULT 49
US-08-159-339A-137
Sequence 137, Application US/08159339A
Patent No. 6037135

GENERAL INFORMATION:
APPLICANT: Kubo, Ralph T.
APPLICANT: Grey, Howard M.
APPLICANT: Sette, Alessandro
APPLICANT: Celis, Bstedan
TITLE OF INVENTION: HLA Binding peptides and Their
NUMBER OF SEQUENCES: 1254
CORRESPONDENCE ADDRESS:
ADDRESS: Townsend and Townsend and Crew LLP
STREET: Two Embarcadero Center, Eighth Floor
CITY: San Francisco
STATE: CA

COUNTRY: USA
ZIP: 94111-3834
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSeq for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/159,339A
FILING DATE: 29-NOV-1993
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/926,666
FILING DATE: 07-AUG-1992
APPLICATION NUMBER: US 08/027,746
FILING DATE: 05-MAR-1993
APPLICATION NUMBER: US 08/103,396
FILING DATE: 06-AUG-1993
ATTORNEY/AGENT INFORMATION:
NAME: Weber, Ellen Lauver
REGISTRATION NUMBER: 32,762
REFERENCE/DOCKET NUMBER: 018623-005030US
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 576-0200
TELEFAX: (415) 576-0300
TELEX:
INFORMATION FOR SEQ ID NO: 137:
SEQUENCE CHARACTERISTICS:
LENGTH: 9 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear

MOLECULE TYPE: peptide
US-08-159-339A-137

Query Match 66.0%; Score 31; DB 2; Length 9;
Best Local Similarity 100.0%; Pred. No. 4.6e+05;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KEYSKI 6
|||
Db 4 KEYSKI 9

RESULT 50

US-08-820-170A-4
; Sequence 4, Application US/08820170A
; Patent No. 5831058
; GENERAL INFORMATION:
; APPLICANT: Teutomu, FUJIMURA
; APPLICANT: Takeshi, MATANABE
; APPLICANT: Masato, HORIE
; APPLICANT: Toyomasa, KATAGIRI
; TITLE OF INVENTION: HUMAN GENE
; NUMBER OF SEQUENCES: 42
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Sughrue, Mion, Zimm, Macpeak & Seas
; STREET: 2100 Pennsylvania Avenue, N.W.
; CITY: Washington
; STATE: D.C.
; COUNTRY: United States
; ZIP: 20037-3202
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/820,170A
; FILING DATE:
; CLASSIFICATION: 536
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202) 293-7060
; TELEFAX: (202) 293-7860
; TELEX: 6491103
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 193 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-820-170A-4

Query Match 66.0%; Score 31; DB 1; Length 193;
Best Local Similarity 62.5%; Pred. No. 2.6e+02;
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 KEYSKI 8
|||
Db 11 KEYSKLDQ 18

Search completed: May 5, 2006, 03:13:23
Job time : 24.7 secs

GenCore version 5.1.7
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OM protein - protein search, using sw model

Run on: May 5, 2006, 07:56:48 ; Search time 56 Seconds
(without alignments)
67.151 Million cell updates/sec

Title: US-08-170-344-48
Perfect score: 47
Sequence: 1 KFYSKISXY 9

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1867569 seqs, 417829326 residues
Total number of hits satisfying chosen parameters: 1867569

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 100 summaries

Database :
1: /cgn2_6/prodata/1/pubppaa/US07_PUBCOMB.pep:*
2: /cgn2_6/prodata/1/pubppaa/US08_PUBCOMB.pep:*
3: /cgn2_6/prodata/1/pubppaa/US09_PUBCOMB.pep:*
4: /cgn2_6/prodata/1/pubppaa/US10_PUBCOMB.pep:*
5: /cgn2_6/prodata/1/pubppaa/US10_PUBCOMB.pep:*
6: /cgn2_6/prodata/1/pubppaa/US11_PUBCOMB.pep:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysts of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	47	100.0	22	4	US-10-612-818-4
2	47	100.0	22	5	US-10-995-902-4
3	47	100.0	149	6	US-11-021-949-14
4	47	100.0	151	4	US-10-177-390-6
5	47	100.0	151	5	US-10-484-063-20
6	47	100.0	151	5	US-10-484-063-27
7	47	100.0	158	5	US-10-858-384-2
8	47	100.0	158	5	US-10-367-057-16
9	47	100.0	158	6	US-11-021-949-13
10	47	100.0	171	4	US-10-472-724-2
11	47	100.0	243	6	US-11-072-288-1
12	47	100.0	266	3	US-09-367-309A-1
13	47	100.0	273	4	US-10-000-903-4
14	47	100.0	273	5	US-10-899-771-4
15	47	100.0	292	4	US-10-000-903-10
16	47	100.0	292	5	US-10-899-771-10
17	47	100.0	371	4	US-10-000-903-6
18	47	100.0	371	5	US-10-899-771-6
19	47	100.0	390	4	US-10-000-903-14
20	47	100.0	390	5	US-10-899-771-14
21	42	89.4	15	4	US-10-476-570-11
22	42	89.4	20	4	US-10-476-570-12
23	42	89.4	148	6	US-11-021-949-19
24	39	83.0	149	6	US-11-021-949-18
25	39	83.0	150	6	US-11-021-949-17
26	37	78.7	151	6	US-11-021-949-24
27	37	78.7	818	3	US-09-918-715-246

28	78.7	818	4	US-10-474-794-246	Sequence 246, App
29	78.7	818	5	US-10-979-159-246	Sequence 246, App
30	76.6	148	6	US-11-021-949-17	Sequence 17, App1
31	76.6	149	6	US-11-021-949-16	Sequence 16, App1
32	76.6	151	6	US-11-021-949-26	Sequence 26, App1
33	76.6	353	4	US-10-437-963-140423	Sequence 140423,
34	76.6	480	4	US-10-369-493-21946	Sequence 21946, A
35	74.5	423	4	US-10-437-963-194869	Sequence 194869,
36	74.5	229	4	US-10-425-115-194792	Sequence 194792,
37	74.5	637	4	US-10-425-115-194796	Sequence 50, App1
38	74.5	688	4	US-10-038-010-50	Sequence 45, App1
39	74.5	688	4	US-10-029-020-45	Sequence 48, App1
40	74.5	688	4	US-10-029-020-48	Sequence 49, App1
41	74.5	688	4	US-10-029-020-49	Sequence 27, App1
42	74.5	688	4	US-10-788-197-25	Sequence 1071, Ap
43	74.5	688	5	US-10-788-197-27	Sequence 5, App1
44	74.5	1521	4	US-10-087-192-1071	Sequence 238474,
45	74.5	1651	4	US-10-467-909-5	Sequence 57456, A
46	72.3	88	4	US-10-425-115-238474	Sequence 25, App1
47	72.3	151	6	US-11-021-949-25	Sequence 16, App1
48	72.3	186	4	US-10-096-373-16	Sequence 6248, Ap
49	72.3	534	4	US-10-369-493-6248	Sequence 153695,
50	72.3	534	4	US-10-424-599-153695	Sequence 359, App
51	70.2	148	6	US-11-021-949-359	Sequence 13562, A
52	70.2	325	3	US-09-815-242-13562	Sequence 141, App
53	70.2	325	3	US-09-769-787-141	Sequence 74052, A
54	70.2	325	4	US-10-282-122A-74092	Sequence 3204, Ap
55	70.2	325	5	US-10-472-928-3204	Sequence 4173, Ap
56	70.2	340	5	US-10-617-320-4173	Sequence 166133,
57	70.2	478	4	US-10-424-599-166133	Sequence 7181, Ap
58	70.2	535	5	US-10-741-849-7181	Sequence 22722, A
59	70.2	572	4	US-10-369-493-22722	Sequence 110922, A
60	70.2	572	5	US-10-732-923-11092	Sequence 113346, A
61	70.2	668	4	US-10-369-493-13346	Sequence 5645, Ap
62	70.2	727	4	US-10-369-493-5645	Sequence 103, App
63	70.2	1151	3	US-09-984-130-103	Sequence 103, App
64	70.2	1151	3	US-09-836-353A-103	Sequence 1911, Ap
65	70.2	1174	4	US-10-094-748-1911	Sequence 1161, Ap
66	70.2	1177	5	US-10-741-600-1161	Sequence 250, App
67	70.2	1179	3	US-09-918-715-250	Sequence 250, App
68	70.2	1179	4	US-10-474-794-250	Sequence 250, App
69	70.2	1179	5	US-10-979-159-250	Sequence 57358, A
70	70.2	1266	4	US-10-282-122A-57358	Sequence 4, App1
71	70.2	2835	4	US-09-885-535-4	Sequence 6, App1
72	70.2	2835	5	US-10-690-276-6	Sequence 2687, Ap
73	70.2	5171	4	US-10-408-765A-2687	Sequence 249350,
74	68.1	53	4	US-10-424-599-249350	Sequence 175223,
75	68.1	83	4	US-10-424-599-254472	Sequence 254472,
76	68.1	92	4	US-10-424-599-281299	Sequence 281299,
77	68.1	110	4	US-10-767-701-38602	Sequence 38602, A
78	68.1	123	4	US-10-425-115-259753	Sequence 259753,
79	68.1	130	4	US-10-767-701-34497	Sequence 34497, A
80	68.1	148	3	US-09-895-913A-94	Sequence 94, App1
81	68.1	155	6	US-11-021-949-22	Sequence 23, App1
82	68.1	155	6	US-10-437-963-145552	Sequence 145552,
83	68.1	157	4	US-11-021-949-30	Sequence 30, App1
84	68.1	158	6	US-10-425-115-305717	Sequence 305717,
85	68.1	172	6	US-10-767-701-42267	Sequence 42267, A
86	68.1	190	4	US-10-425-114-41518	Sequence 41518, A
87	68.1	355	4	US-10-032-585-7579	Sequence 7579, Ap
88	68.1	362	4	US-10-425-114-63465	Sequence 63465, A
89	68.1	364	4	US-10-424-599-281300	Sequence 281300,
90	68.1	433	6	US-11-097-143-22572	Sequence 22572, A
91	68.1	474	4	US-10-182-960-16	Sequence 16, App1
92	68.1	474	6	US-11-097-143-2817	Sequence 2817, Ap
93	68.1	499	4	US-10-425-115-243918	Sequence 243918,
94	68.1	507	4	US-10-425-114-63465	Sequence 63465, A
95	68.1	518	4	US-10-425-114-64474	Sequence 64474, A
96	68.1	576	4	US-10-094-749-2538	Sequence 2538, Ap

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105	32	68.1	638	4	US-10-287-226-672	Sequence 672, App	178	31	66.0	832	4	US-10-359-431-60	Sequence 62, App1
106	32	68.1	749	4	US-10-099-352-2	Sequence 2, App1	179	31	66.0	832	4	US-10-359-431-60	Sequence 63, App1
107	32	68.1	749	4	US-10-099-352-39	Sequence 39, App1	180	31	66.0	840	5	US-10-450-763-44061	Sequence 34061, A
108	32	68.1	749	4	US-10-282-122A-60819	Sequence 60819, A	181	31	66.0	840	5	US-10-450-763-44314	Sequence 44314, A
109	32	68.1	1174	4	US-10-205-841-40	Sequence 40, App1	182	31	66.0	897	5	US-10-450-763-43672	Sequence 43672, A
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111	32	68.1	1657	4	US-10-467-909-2	Sequence 2, App1	184	31	66.0	1177	4	US-10-369-493-11558	Sequence 11558, A
112	32	68.1	2233	4	US-10-369-493-11998	Sequence 1998, App	185	31	66.0	1207	5	US-10-450-763-37010	Sequence 37010, A
113	31	66.0	9	4	US-10-149-135-2260	Sequence 2260, App	186	31	66.0	1390	4	US-10-450-763-37607	Sequence 37607, A
114	31	66.0	20	4	US-10-476-570-11	Sequence 11, App1	187	31	66.0	1315	5	US-10-450-763-40320	Sequence 40320, A
115	31	66.0	36	4	US-10-449-830A-8	Sequence 8, App1	188	31	66.0	1332	5	US-10-450-763-39492	Sequence 39492, A
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118	31	66.0	70	4	US-10-437-963-198805	Sequence 198805, A	191	31	66.0	1390	4	US-10-097-340-35	Sequence 35, App1
119	31	66.0	74	4	US-10-449-830A-6	Sequence 6, App1	192	31	66.0	1390	5	US-10-723-860-1979	Sequence 1979, App
120	31	66.0	88	3	US-09-864-408A-182	Sequence 182, App	193	31	66.0	1390	5	US-10-756-149-5220	Sequence 5220, App
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122	31	66.0	89	4	US-10-097-065-162	Sequence 6, App1	195	31	66.0	1394	4	US-10-369-493-7069	Sequence 7069, App
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124	31	66.0	104	5	US-10-450-763-37606	Sequence 37606, A	197	31	66.0	1477	5	US-10-733-923-22568	Sequence 22568, A
125	31	66.0	107	4	US-10-425-115-352326	Sequence 352326, A	198	31	66.0	1554	5	US-10-966-482-34	Sequence 34, App1
126	31	66.0	125	4	US-10-424-599-233961	Sequence 233961, A	199	31	66.0	1556	5	US-10-966-482-40	Sequence 40, App1
127	31	66.0	130	4	US-10-264-049-3202	Sequence 3202, App	200	31	66.0	1582	4	US-10-282-122A-49107	Sequence 49107, A
128	31	66.0	144	5	US-10-450-763-40315	Sequence 40315, A	201	31	66.0	1587	5	US-10-450-763-32689	Sequence 32689, App
129	31	66.0	153	4	US-10-425-115-252585	Sequence 252585, A	202	31	66.0	1619	5	US-10-450-763-48360	Sequence 48360, A
130	31	66.0	167	4	US-10-001-835-171	Sequence 171, App	203	31	66.0	1758	5	US-10-450-763-56126	Sequence 56126, A
131	31	66.0	177	3	US-09-764-864-1538	Sequence 1538, App	204	31	66.0	2237	5	US-10-733-923-17015	Sequence 17015, A
132	31	66.0	183	6	US-11-097-143-34677	Sequence 34677, A	205	31	66.0	2764	5	US-10-450-763-40488	Sequence 40488, A
133	31	66.0	193	3	US-09-976-165-4	Sequence 4, App1	206	30.5	64.9	2773	4	US-10-369-493-10975	Sequence 10975, A
134	31	66.0	193	4	US-10-342-276-4	Sequence 4, App1	207	30	63.8	23	3	US-09-785-632A-39	Sequence 39, App1
135	31	66.0	219	4	US-10-282-122A-54600	Sequence 54600, A	208	30	63.8	23	4	US-10-223-765-29	Sequence 39, App1
136	31	66.0	267	4	US-10-425-115-252291	Sequence 252291, A	209	30	63.8	23	4	US-10-314-669-98	Sequence 88, App1
137	31	66.0	278	5	US-10-732-923-18495	Sequence 18495, A	210	30	63.8	23	4	US-10-669-861-88	Sequence 88, App1
138	31	66.0	314	4	US-10-360-101-263	Sequence 263, App	211	30	63.8	23	5	US-10-746-864-40	Sequence 80, App1
139	31	66.0	325	4	US-10-032-585-7686	Sequence 7686, App	212	30	63.8	23	5	US-10-732-620-4	Sequence 4, App1
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141	31	66.0	356	4	US-10-369-493-16404	Sequence 16404, A	214	30	63.8	40	4	US-10-253-471-1707	Sequence 1707, App
142	31	66.0	389	4	US-10-282-122A-52825	Sequence 52825, A	215	30	63.8	40	4	US-10-253-493-1707	Sequence 1707, App
143	31	66.0	396	4	US-10-424-599-217503	Sequence 217503, A	216	30	63.8	45	4	US-10-424-599-252482	Sequence 252482, A
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145	31	66.0	426	4	US-10-282-122A-51811	Sequence 51811, A	218	30	63.8	53	4	US-10-424-599-247703	Sequence 247703, A
146	31	66.0	428	5	US-10-732-923-19510	Sequence 19510, A	219	30	63.8	55	4	US-10-424-599-207308	Sequence 207308, A
147	31	66.0	445	5	US-10-732-923-20299	Sequence 20299, A	220	30	63.8	56	4	US-10-424-599-266947	Sequence 266947, A
148	31	66.0	445	5	US-10-732-923-20300	Sequence 20300, A	221	30	63.8	59	4	US-10-437-963-150879	Sequence 150879, A
149	31	66.0	445	5	US-10-732-923-20301	Sequence 20301, A	222	30	63.8	59	4	US-10-425-115-220698	Sequence 220698, A
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151	31	66.0	455	5	US-10-450-763-34946	Sequence 34946, A	224	30	63.8	74	4	US-10-437-963-148126	Sequence 148126, A
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153	31	66.0	477	5	US-10-437-963-157911	Sequence 157911, A	226	30	63.8	83	5	US-10-733-620-10	Sequence 20, App1
154	31	66.0	519	5	US-10-450-763-37608	Sequence 37608, A	227	30	63.8	83	5	US-10-733-620-10	Sequence 22, App1
155	31	66.0	521	4	US-10-276-774-1910	Sequence 1910, App	228	30	63.8	89	4	US-10-424-599-253451	Sequence 253451, A
156	31	66.0	528	4	US-10-282-122A-45644	Sequence 45644, A	229	30	63.8	89	4	US-10-424-599-253451	Sequence 253451, A
157	31	66.0	538	4	US-10-424-599-218710	Sequence 218710, A	230	30	63.8	92	4	US-10-424-599-226887	Sequence 226887, A
158	31	66.0	541	4	US-10-437-963-171974	Sequence 171974, A	231	30	63.8	92	4	US-10-424-599-238289	Sequence 238289, A
159	31	66.0	565	6	US-11-097-143-25827	Sequence 25827, A	232	30	63.8	99	4	US-10-437-963-194866	Sequence 194866, A
160	31	66.0	572	5	US-10-450-763-35831	Sequence 35831, A	233	30	63.8	111	4	US-10-437-963-150879	Sequence 150879, A
161	31	66.0	583	5	US-10-450-763-40318	Sequence 40318, A	234	30	63.8	111	5	US-10-425-115-257532	Sequence 257532, A
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164	31	66.0	608	4	US-09-764-864-1121	Sequence 1121, App	237	30	63.8	111	5	US-10-732-620-52	Sequence 52, App1
165	31	66.0	611	5	US-10-450-763-32678	Sequence 32678, A	238	30	63.8	111	5	US-10-732-620-54	Sequence 54, App1
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258	30	63.8	236	5	US-10-374-780A-2214	Sequence 2214, Ap	331	30	63.8	802	4	US-10-767-701-47013	Sequence 47013, A
259	30	63.8	236	4	US-10-732-923-5460	Sequence 5400, Ap	332	30	63.8	802	4	US-10-425-115-295611	Sequence 295611, A
260	30	63.8	236	5	US-10-325-066A-692	Sequence 692, App	333	30	63.8	802	4	US-10-425-115-295612	Sequence 295612, A
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262	30	63.8	244	3	US-09-789-210-74	Sequence 74, Appl	335	30	63.8	807	4	US-10-425-114-57840	Sequence 57840, A
263	30	63.8	253	4	US-10-424-599-183832	Sequence 183832, A	336	30	63.8	811	4	US-10-425-114-53965	Sequence 53965, A
264	30	63.8	254	5	US-10-732-923-5401	Sequence 5401, Ap	337	30	63.8	842	4	US-10-359-431-50	Sequence 51, Appl
265	30	63.8	281	4	US-10-425-114-52809	Sequence 52809, A	338	30	63.8	842	4	US-10-359-431-51	Sequence 51, Appl
266	30	63.8	283	4	US-10-425-115-336571	Sequence 336571, A	339	30	63.8	842	4	US-10-437-963-15743	Sequence 15743, A
267	30	63.8	305	4	US-10-424-599-273363	Sequence 273363, A	340	30	63.8	874	4	US-10-437-963-172930	Sequence 172930, A
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272	30	63.8	312	5	US-10-832-946-28	Sequence 28, Appl	345	30	63.8	1006	4	US-10-437-963-158720	Sequence 158720, A
273	30	63.8	313	4	US-10-425-115-323462	Sequence 323462, A	346	30	63.8	1137	5	US-10-732-922-15029	Sequence 15029, A
274	30	63.8	313	5	US-10-774-355A-2041	Sequence 2041, Ap	347	30	63.8	1254	4	US-10-437-963-111885	Sequence 111885, A
275	30	63.8	316	4	US-10-425-115-283079	Sequence 283079, A	348	30	63.8	1291	4	US-10-369-493-20301	Sequence 20301, A
276	30	63.8	316	6	US-11-097-143-24834	Sequence 24834, A	349	30	63.8	1391	4	US-10-282-122A-65632	Sequence 65632, A
277	30	63.8	318	4	US-10-032-585-7896	Sequence 7896, Ap	350	30	63.8	1335	4	US-10-437-963-111886	Sequence 111886, A
278	30	63.8	330	4	US-10-382-122A-72434	Sequence 72434, A	351	30	63.8	1338	4	US-10-314-739-2	Sequence 2, Appl1
279	30	63.8	331	4	US-10-425-115-316518	Sequence 316518, A	352	30	63.8	1771	4	US-10-361-522-7	Sequence 7, Appl1
280	30	63.8	331	5	US-10-501-282-234	Sequence 234, App	353	30	63.8	2122	4	US-10-369-493-21677	Sequence 21677, A
281	30	63.8	335	4	US-10-382-122A-74456	Sequence 74456, A	354	30	63.8	2201	4	US-10-094-886-138	Sequence 138, App
282	30	63.8	336	4	US-10-425-114-39829	Sequence 39829, A	355	30	63.8	2425	4	US-10-282-122A-65401	Sequence 65401, A
283	30	63.8	336	4	US-10-425-114-39829	Sequence 39829, A	356	30	63.8	2526	4	US-10-634-574-4	Sequence 4, Appl1
284	30	63.8	378	4	US-10-314-669-18	Sequence 18, Appl	357	29.5	62.8	100	4	US-10-029-386-31305	Sequence 31305, A
285	30	63.8	379	4	US-10-425-114-69236	Sequence 69236, A	358	29	61.7	15	4	US-10-476-570-32	Sequence 32, Appl
286	30	63.8	385	4	US-10-425-115-215014	Sequence 215014, A	359	29	61.7	41	4	US-10-425-115-222782	Sequence 222782, A
287	30	63.8	385	4	US-10-425-115-215016	Sequence 215016, A	360	29	61.7	42	4	US-10-209-187A-10	Sequence 10, Appl
288	30	63.8	385	4	US-10-425-115-313584	Sequence 313584, A	361	29	61.7	44	4	US-10-425-115-194036	Sequence 194036, A
289	30	63.8	387	4	US-10-425-114-54013	Sequence 54013, A	362	29	61.7	57	4	US-10-437-963-163493	Sequence 163493, A
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291	30	63.8	387	4	US-10-425-114-59696	Sequence 59696, A	364	29	61.7	59	4	US-10-424-599-261490	Sequence 261490, A
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293	30	63.8	397	4	US-10-724-972A-3787	Sequence 3787, Ap	366	29	61.7	66	3	US-10-425-115-226610	Sequence 226610, A
294	30	63.8	398	4	US-10-362-924-13	Sequence 13, Appl	367	29	61.7	66	4	US-09-764-877-1548	Sequence 1548, Ap
295	30	63.8	401	4	US-10-437-963-191051	Sequence 191051, A	368	29	61.7	69	4	US-10-242-515-1548	Sequence 1548, Ap
296	30	63.8	402	4	US-10-724-972A-6144	Sequence 6144, Ap	369	29	61.7	80	4	US-10-622-220-5	Sequence 5, Appl1
297	30	63.8	414	4	US-10-425-114-61449	Sequence 61449, A	370	29	61.7	104	4	US-10-424-599-243218	Sequence 243218, A
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305	30	63.8	472	4	US-10-369-493-19890	Sequence 19890, A	378	29	61.7	130	4	US-10-424-599-279330	Sequence 279330, A
306	30	63.8	481	4	US-10-425-114-71722	Sequence 71722, A	379	29	61.7	142	6	US-11-021-949-3360	Sequence 360, App
307	30	63.8	492	4	US-10-369-493-6965	Sequence 6965, Ap	380	29	61.7	152	3	US-09-738-626-4132	Sequence 4132, App
308	30	63.8	492	4	US-10-369-493-6966	Sequence 6966, Ap	381	29	61.7	158	4	US-10-424-599-146743	Sequence 146743, A
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313	30	63.8	542	4	US-10-425-115-306889	Sequence 306889, A	386	29	61.7	175	4	US-10-369-493-6047	Sequence 6047, Ap
314	30	63.8	550	4	US-10-424-599-244129	Sequence 244129, A	387	29	61.7	179	4	US-10-282-122A-57125	Sequence 57125, A
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318	30	63.8	570	5	US-10-739-930-7474	Sequence 7474, Ap	391	29	61.7	185	4	US-10-425-114-40540	Sequence 40540, A
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395	29	61.7	194	3	US-09-815-242-10698	Sequence 10698, A	468	29	61.7	494	5	US-10-947-507-929	Sequence 229, App
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413	29	61.7	260	5	US-10-425-114-38069	Sequence 38069, A	486	29	61.7	523	4	US-10-437-963-16181	Sequence 16181, A
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545	29	61.7	671	4	US-10-433-794-2	Sequence 2, Appl1	618	28	59.6	20	3	US-09-962-756-1210	Sequence 1210, Ap		
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554	29	61.7	766	5	US-10-450-763-44027	Sequence 44027, A	627	28	59.6	26	3	US-09-962-756-1593	Sequence 1593, Ap		
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586	29	61.7	1411	4	US-10-094-886-124	Sequence 124, App	659	28	59.6	27	4	US-10-253-493-1654	Sequence 1654, Ap		
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592	29	61.7	1808	5	US-10-732-923-8793	Sequence 8793, Ap	665	28	59.6	27	4	US-10-253-493-1692	Sequence 1692, Ap		
593	29	61.7	2108	2	US-08-973-963-16	Sequence 16, Appl	666	28	59.6	27	4	US-10-253-493-1696	Sequence 1696, Ap		
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596	29	61.7	3256	4	US-10-408-765A-174	Sequence 174, App	669	28	59.6	27	4	US-10-253-493-1700	Sequence 1700, Ap		
597	29	61.7	3256	4	US-10-701-490-9	Sequence 9, Appl1	670	28	59.6	27	4	US-10-253-493-1702	Sequence 1702, Ap		
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835	28	59.6	341	4	US-10-142-431-256	Sequence 256, App	908	28	59.6	341	4	US-10-128-690A-256	Sequence 256, App
836	28	59.6	341	4	US-10-143-114-256	Sequence 256, App	909	28	59.6	341	4	US-10-128-691A-256	Sequence 256, App
837	28	59.6	341	4	US-10-163-547-13	Sequence 13, App1	910	28	59.6	341	4	US-10-131-819A-256	Sequence 256, App
838	28	59.6	341	4	US-10-142-419-256	Sequence 256, App	911	28	59.6	341	4	US-10-131-829A-256	Sequence 256, App
839	28	59.6	341	4	US-10-123-262-256	Sequence 256, App	912	28	59.6	341	4	US-10-131-836A-256	Sequence 256, App
840	28	59.6	341	4	US-10-142-423-256	Sequence 256, App	913	28	59.6	341	4	US-10-146-791-256	Sequence 256, App
841	28	59.6	341	4	US-10-121-050-256	Sequence 256, App	914	28	59.6	341	4	US-10-147-484-256	Sequence 256, App
842	28	59.6	341	4	US-10-141-755-256	Sequence 256, App	915	28	59.6	341	4	US-10-147-508-256	Sequence 256, App
843	28	59.6	341	4	US-10-143-032-256	Sequence 256, App	916	28	59.6	341	4	US-10-147-512-256	Sequence 256, App
844	28	59.6	341	4	US-10-123-108-256	Sequence 256, App	917	28	59.6	341	4	US-10-175-735-256	Sequence 256, App
845	28	59.6	341	4	US-10-123-236-256	Sequence 256, App	918	28	59.6	341	4	US-10-121-040-256	Sequence 256, App
846	28	59.6	341	4	US-10-123-264-256	Sequence 256, App	919	28	59.6	341	4	US-10-121-056-256	Sequence 256, App
847	28	59.6	341	4	US-10-140-921-256	Sequence 256, App	920	28	59.6	341	4	US-10-121-061-256	Sequence 256, App
848	28	59.6	341	4	US-10-140-928-256	Sequence 256, App	921	28	59.6	341	4	US-10-123-235-256	Sequence 256, App
849	28	59.6	341	4	US-10-121-045-256	Sequence 256, App	922	28	59.6	341	4	US-10-123-235-256	Sequence 256, App
850	28	59.6	341	4	US-10-123-292-256	Sequence 256, App	923	28	59.6	341	4	US-10-124-818-256	Sequence 256, App
851	28	59.6	341	4	US-10-123-903-256	Sequence 256, App	924	28	59.6	341	4	US-10-137-868-256	Sequence 256, App
852	28	59.6	341	4	US-10-124-819-256	Sequence 256, App	925	28	59.6	341	4	US-10-147-492-256	Sequence 256, App
853	28	59.6	341	4	US-10-124-822-256	Sequence 256, App	926	28	59.6	341	4	US-10-158-782-256	Sequence 256, App
854	28	59.6	341	4	US-10-140-925-256	Sequence 256, App	927	28	59.6	341	4	US-10-158-782-256	Sequence 256, App
855	28	59.6	341	4	US-10-160-498-256	Sequence 256, App	928	28	59.6	341	4	US-10-123-905-256	Sequence 256, App
856	28	59.6	341	4	US-10-124-824-256	Sequence 256, App	929	28	59.6	341	4	US-10-123-907-256	Sequence 256, App
857	28	59.6	341	4	US-10-127-825A-256	Sequence 256, App	930	28	59.6	341	4	US-10-125-921A-256	Sequence 256, App
858	28	59.6	341	4	US-10-127-829A-256	Sequence 256, App	931	28	59.6	341	4	US-10-125-921A-256	Sequence 256,

977 28 59.6 341 4 US-10-141-698-256 Sequence 256, App
978 28 59.6 341 4 US-10-141-702-256 Sequence 256, App
979 28 59.6 341 4 US-10-141-704-256 Sequence 256, App
980 28 59.6 341 4 US-10-142-421-256 Sequence 256, App
981 28 59.6 341 4 US-10-142-432-256 Sequence 256, App
982 28 59.6 341 4 US-10-142-767-256 Sequence 256, App
983 28 59.6 341 4 US-10-143-033-256 Sequence 256, App
984 28 59.6 341 4 US-10-144-994-256 Sequence 256, App
985 28 59.6 341 4 US-10-145-628-256 Sequence 256, App
986 28 59.6 341 4 US-10-145-746-256 Sequence 256, App
987 28 59.6 341 4 US-10-145-748-256 Sequence 256, App
988 28 59.6 341 4 US-10-145-823-256 Sequence 256, App
989 28 59.6 341 4 US-10-145-825-256 Sequence 256, App
990 28 59.6 341 4 US-10-145-870-256 Sequence 256, App
991 28 59.6 341 4 US-10-145-876-256 Sequence 256, App
992 28 59.6 341 4 US-10-145-959-256 Sequence 256, App
993 28 59.6 341 4 US-10-146-724-256 Sequence 256, App
994 28 59.6 341 4 US-10-146-725-256 Sequence 256, App
995 28 59.6 341 4 US-10-146-795-256 Sequence 256, App
996 28 59.6 341 4 US-10-147-495-256 Sequence 256, App
997 28 59.6 341 4 US-10-147-501-256 Sequence 256, App
998 28 59.6 341 4 US-10-147-504-256 Sequence 256, App
999 28 59.6 341 4 US-10-147-506-256 Sequence 256, App
1000 28 59.6 341 4 US-10-147-509-256 Sequence 256, App

ALIGNMENTS

RESULT 1
US-10-612-818-4
; Sequence 4, Application US/10612818
; Publication No. US20040110925A1
; GENERAL INFORMATION:
; APPLICANT: Impact Diagnostics
; TITLE OF INVENTION: Impact Diagnostics
; TITLE OF INVENTION: Peptides from the E2, E6 and E7 Proteins of Human Papillomavirus
; TITLE OF INVENTION: 18 for Detecting and/or Diagnosing Cervical and Other Human Pap
; TITLE OF INVENTION: Associated Cancers
; FILE REFERENCE: 3352-2-2
; CURRENT APPLICATION NUMBER: US/10/612,818
; CURRENT FILING DATE: 2003-07-01
; PRIOR APPLICATION NUMBER: US 60/394,172
; PRIOR FILING DATE: 2003-07-02
; PRIOR APPLICATION NUMBER: US 09/828,645
; PRIOR FILING DATE: 2001-04-05
; NUMBER OF SEQ ID NOS: 8
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 4
; LENGTH: 22
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Derived from the E6 early coding region of HPV 16
US-10-612-818-4
Query Match 100.0%; Score 47; DB 4; Length 22;
Best Local Similarity 100.0%; Pred. No. 0.31;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 KFYKISSEY 9
|||
Db 14 KFYKISSEY 22
RESULT 2
US-10-995-902-4
; Sequence 4, Application US/10995902
; Publication No. US20050221295A1
; GENERAL INFORMATION:
; APPLICANT: Impact Diagnostics
; APPLICANT: Impact Diagnostics
; TITLE OF INVENTION: Peptides from the E2, E6 and E7 Proteins of Human Papillomavirus

; TITLE OF INVENTION: 18 for Detecting and/or Diagnosing Cervical and Other Human Pap
; TITLE OF INVENTION: Associated Cancers
; FILE REFERENCE: 3352-2-2
; CURRENT APPLICATION NUMBER: US/10/995,902
; CURRENT FILING DATE: 2004-11-23
; PRIOR APPLICATION NUMBER: US 60/394,172
; PRIOR FILING DATE: 2002-07-02
; PRIOR APPLICATION NUMBER: US 09/828,645
; PRIOR FILING DATE: 2001-04-05
; NUMBER OF SEQ ID NOS: 8
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 4
; LENGTH: 22
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Derived from the E6 early coding region of HPV 16
US-10-995-902-4
Query Match 100.0%; Score 47; DB 5; Length 22;
Best Local Similarity 100.0%; Pred. No. 0.31;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KFYKISSEY 9
|||
Db 14 KFYKISSEY 22

RESULT 3
US-11-021-949-14
; Sequence 14, Application US/11021949
; Publication No. US20050142541A1
; GENERAL INFORMATION:
; APPLICANT: LU, PETER
; APPLICANT: GARMAN, JONATHAN DAVID
; APPLICANT: BELMARES, MICHAEL P.
; APPLICANT: DIAZ-SABIENTO, CHAMORRO SOMOZA
; APPLICANT: SCHWEIZER, JOHANNES
; TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
; TITLE OF INVENTION: AND METHODS OF THEIR USE
; FILE REFERENCE: VITA-012
; CURRENT APPLICATION NUMBER: US/11/021,949
; CURRENT FILING DATE: 2004-12-23
; PRIOR APPLICATION NUMBER: 60/532,373
; PRIOR FILING DATE: 2003-12-23
; NUMBER OF SEQ ID NOS: 361
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 14
; LENGTH: 149
; TYPE: PRT
; ORGANISM: human papilloma virus (HPV)
US-11-021-949-14
Query Match 100.0%; Score 47; DB 6; Length 149;
Best Local Similarity 100.0%; Pred. No. 1.8;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 KFYKISSEY 9
|||
Db 68 KFYKISSEY 76
RESULT 4
US-10-177-390-6
; Sequence 6, Application US/10177390
; Publication No. US20030143743A1
; GENERAL INFORMATION:
; APPLICANT: Schuler, Gerold
; APPLICANT: N.V. Antwerp Innovatiecentrum
; TITLE OF INVENTION: Improved Transfection of Eucaryotic Cells with Linear
; FILE REFERENCE: 021505wc/JH/ml
; CURRENT APPLICATION NUMBER: US/10/177,390

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; CURRENT FILING DATE: 2002-06-20
; NUMBER OF SEQ ID NOS: 34
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 6
; LENGTH: 151
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-10-177-390-6
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```

Query Match          100.0%; Score 47; DB 4; Length 151;
Best Local Similarity 100.0%; Pred. No. 1.8;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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```
QY      1 KFYSKISEY 9
        |||||
        68 KFYSKISEY 76
```

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RESULT 5
US-10-484-063-20
; Sequence 20, Application US/10484063
; Publication No. US20050048467A1
; GENERAL INFORMATION:
; APPLICANT: SASTRY, K. JAGANNADHA
; APPLICANT: TORTOLERO-LUNA, GUILTERMO
; APPLICANT: FOLLEN, MICHELE
; TITLE OF INVENTION: METHODS AND COMPOSITIONS RELATING TO HPV-ASSOCIATED
; FILE REFERENCE: UTSC:560US
; CURRENT APPLICATION NUMBER: US/10/484,063
; CURRENT FILING DATE: 2004-01-16
; PRIOR APPLICATION NUMBER: PCT/US02/23198
; PRIOR FILING DATE: 2002-07-19
; PRIOR APPLICATION NUMBER: 60/306,809
; PRIOR FILING DATE: 2001-07-20
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 20
; LENGTH: 151
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-484-063-20
```

```

Query Match          100.0%; Score 47; DB 5; Length 151;
Best Local Similarity 100.0%; Pred. No. 1.8;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 KFYSKISEY 9
        |||||
        68 KFYSKISEY 76
```

```

RESULT 6
US-10-484-063-27
; Sequence 27, Application US/10484063
; Publication No. US20050048467A1
; GENERAL INFORMATION:
; APPLICANT: SASTRY, K. JAGANNADHA
; APPLICANT: TORTOLERO-LUNA, GUILTERMO
; APPLICANT: FOLLEN, MICHELE
; TITLE OF INVENTION: METHODS AND COMPOSITIONS RELATING TO HPV-ASSOCIATED
; FILE REFERENCE: UTSC:560US
; CURRENT APPLICATION NUMBER: US/10/484,063
; CURRENT FILING DATE: 2004-01-16
; PRIOR APPLICATION NUMBER: PCT/US02/23198
; PRIOR FILING DATE: 2002-07-19
; PRIOR APPLICATION NUMBER: 60/306,809
; PRIOR FILING DATE: 2001-07-20
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 27
; LENGTH: 151
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```

; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-10-484-063-27
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```

Query Match          100.0%; Score 47; DB 5; Length 151;
Best Local Similarity 100.0%; Pred. No. 1.8;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 KFYSKISEY 9
        |||||
        68 KFYSKISEY 76
```

```

RESULT 7
US-10-858-384-2
; Sequence 2, Application US/10858384
; Publication No. US2005003025A1
; GENERAL INFORMATION:
; APPLICANT: CHOPPIN, JEANNINE
; APPLICANT: BOURGAULT-VILLADA, ISABELLE
; APPLICANT: GUILLET, ERAN-GERARD
; APPLICANT: CONNAN, FRANCES
; APPLICANT: FERRIES, ESTELLE
; TITLE OF INVENTION: POLYEPITOPIC PROTEIN FRAGMENTS OF THE E6 PROTEIN
; TITLE OF INVENTION: OR E7 OF HPV, THEIR PRODUCTION AND THEIR USE
; FILE REFERENCE: 0508-1037-1
; CURRENT APPLICATION NUMBER: US/10/858,384
; CURRENT FILING DATE: 2004-06-02
; PRIOR APPLICATION NUMBER: FR 9907012
; PRIOR FILING DATE: 1999-06-03
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: PatentIn Ver. 3.2
; SEQ ID NO 2
; LENGTH: 158
; TYPE: PRT
; ORGANISM: Human Papillomavirus
US-10-858-384-2
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```

Query Match          100.0%; Score 47; DB 5; Length 158;
Best Local Similarity 100.0%; Pred. No. 1.9;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 KFYSKISEY 9
        |||||
        75 KFYSKISEY 83
```

```

RESULT 8
US-10-367-057-16
; Sequence 16, Application US/10367057
; Publication No. US20050100554A1
; GENERAL INFORMATION:
; APPLICANT: Cuthill, Scott;
; APPLICANT: Jackson, Amanda;
; APPLICANT: Lewin, David A.;
; APPLICANT: Ooi, Chean Eng
; TITLE OF INVENTION: Complexes and Methods of Using Same
; FILE REFERENCE: 21402-559
; CURRENT APPLICATION NUMBER: US/10/367,057
; CURRENT FILING DATE: 2003-02-14
; PRIOR APPLICATION NUMBER: 60/256,911
; PRIOR FILING DATE: 2002-02-14
; NUMBER OF SEQ ID NOS: 198
; SOFTWARE: CuraSeqlet version 0.1
; SEQ ID NO 16
; LENGTH: 158
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-367-057-16
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```

Query Match          100.0%; Score 47; DB 5; Length 158;
Best Local Similarity 100.0%; Pred. No. 1.9;
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Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KFYSKISEY 9
|||||

Db 75 KFYSKISEY 83

RESULT 9

US-11-021-949-13
; Sequence 13, Application US/11021949
; Publication No. US20050142541A1
; GENERAL INFORMATION:
; APPLICANT: LU, PETER
; APPLICANT: GARMAN, JONATHAN DAVID
; APPLICANT: BELMARES, MICHAEL P.
; APPLICANT: DIAZ-SARMIENTO, CHAMORRO SONOZA
; APPLICANT: SCHWEIZER, JOHANNES
; TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
; FILE REFERENCE: VITA-012
; CURRENT APPLICATION NUMBER: US/11/021,949
; PRIOR FILING DATE: 2004-12-23
; PRIOR APPLICATION NUMBER: 60/532,373
; PRIOR FILING DATE: 2003-12-23
; NUMBER OF SEQ ID NOS: 361
; SOFTWARE: PaetSeq for Windows Version 4.0
; SEQ ID NO 13
; LENGTH: 158
; TYPE: PRT
; ORGANISM: human papilloma virus (HPV)
US-11-021-949-13

Query Match 100.0%; Score 47; DB 6; Length 158;

Best Local Similarity 100.0%; Pred. No. 1.9;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KFYSKISEY 9
|||||

Db 75 KFYSKISEY 83

RESULT 10

US-10-472-724-2
; Sequence 2, Application US/10472724
; Publication No. US20040171806A1
; GENERAL INFORMATION:
; APPLICANT: Cid-Arregui, Angel
; APPLICANT: Zur Hausen, Harald
; TITLE OF INVENTION: Modified HPV E6 and E7 genes and proteins useful for vaccination
; FILE REFERENCE: 4121-154
; CURRENT APPLICATION NUMBER: US/10/472,724
; CURRENT FILING DATE: 2003-09-17
; PRIOR APPLICATION NUMBER: PCT/EP02/03271
; PRIOR FILING DATE: 2002-03-22
; PRIOR APPLICATION NUMBER: EP 01107271.7
; PRIOR FILING DATE: 2001-03-23
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 2
; LENGTH: 171
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Construct
US-10-472-724-2

Query Match 100.0%; Score 47; DB 4; Length 171;

Best Local Similarity 100.0%; Pred. No. 2.1;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KFYSKISEY 9
|||||

Db 80 KFYSKISEY 88

RESULT 11

US-11-072-288-1
; Sequence 1, Application US/11072288
; Publication No. US20050159386A1
; GENERAL INFORMATION:
; APPLICANT: KIENY, Marie-Paule
; APPLICANT: BIZOUARNE, Nadine
; APPLICANT: BALLOU, Jean-Marc
; TITLE OF INVENTION: ANTITUMORAL COMPOSITION BASED ON IMMUNOGENIC
; FILE REFERENCE: 017753-122
; CURRENT APPLICATION NUMBER: US/11/072,288
; CURRENT FILING DATE: 2005-03-07
; PRIOR APPLICATION NUMBER: US/09/462,993
; PRIOR FILING DATE: 2000-04-17
; PRIOR APPLICATION NUMBER: PCT/FR98/01576
; PRIOR FILING DATE: 1998-07-17
; PRIOR APPLICATION NUMBER: FR 97/09152
; PRIOR FILING DATE: 1997-07-18
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: PatentIn Ver. 2.2
; SEQ ID NO 1
; LENGTH: 243
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Derived from
; OTHER INFORMATION: human papillomavirus, strain HPV-16, E6 protein
US-11-072-288-1

Query Match 100.0%; Score 47; DB 6; Length 243;

Best Local Similarity 100.0%; Pred. No. 2.8;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KFYSKISEY 9
|||||

Db 103 KFYSKISEY 111

RESULT 12

US-09-367-309A-1
; Sequence 1, Application US/09367309A
; Publication No. US20020081329A1
; GENERAL INFORMATION:
; APPLICANT: MACFARLAN, ROBERTICK I.
; APPLICANT: MALLIAROS, JIM
; TITLE OF INVENTION: CHELATING IMMUNOSTIMULATING COMPLEXES
; FILE REFERENCE: 017227/0149
; CURRENT APPLICATION NUMBER: US/09/367,309A
; CURRENT FILING DATE: 1999-08-11
; PRIOR APPLICATION NUMBER: PCT/AU98/00080
; PRIOR FILING DATE: 1998-02-13
; PRIOR APPLICATION NUMBER: AU PO 5178
; PRIOR FILING DATE: 1997-02-19
; NUMBER OF SEQ ID NOS: 6
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
; LENGTH: 266
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-09-367-309A-1

Query Match 100.0%; Score 47; DB 3; Length 266;

Best Local Similarity 100.0%; Pred. No. 3.1;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KFYSKISEY 9
|||||

Db 75 KFYSKISEY 83


```

RESULT 13
US-10-000-903-4
; Sequence 4, Application US/10000903
; Publication No. US20020182221v1
; GENERAL INFORMATION:
; APPLICANT: Bruck, Claudine
; APPLICANT: Cabezon Silva, Teresa
; APPLICANT: Dellase, Anne-Marie Eva Fernandez
; APPLICANT: Gerard, Catherine Marie Ghislaine
; APPLICANT: Lombardo-Bencheikh, Angela
; TITLE OF INVENTION: Vaccine
; FILE REFERENCE: B45107
; CURRENT APPLICATION NUMBER: US/10/000, 903
; CURRENT FILING DATE: 2001-10-01
; PRIOR APPLICATION NUMBER: PCT/EP98/05285
; PRIOR FILING DATE: 1998-08-17
; PRIOR APPLICATION NUMBER: GB 9717953.5
; PRIOR FILING DATE: 1997-08-22
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FastSeq For Windows Version 3.0
; SEQ ID NO 4
; LENGTH: 273
; TYPE: prt
; ORGANISM: Homo sapien
US-10-000-903-4

```

Query Match	100.0%	Score 47;	DB 4;	Length 273;
Best Local Similarity	100.0%	Pred. No. 3.2;		
Matches	9;	Conservative	0;	Mismatches 0; Indels 0; Gaps 0;
OY	1 KPYKSKISEY	9		
DB	181 KPYKSKISEY	189		

```

RESULT 14
US-10-899-771-4
; Sequence 4, Application US/10899771
; Publication No. US20050031638A1
; GENERAL INFORMATION:
; APPLICANT: Dalemans, Wilfried L.J.
; APPLICANT: Gerard, Catherine Marie Ghislaine
; TITLE OF INVENTION: Compositions Comprising Human Papilloma Virus Proteins
; TITLE OF INVENTION: and Fusion Proteins Adjuncted with a CpG Oligonucleotide
; FILE REFERENCE: B45124
; CURRENT APPLICATION NUMBER: US/10/899,771
; CURRENT FILING DATE: 2004-07-27
; PRIOR APPLICATION NUMBER: US/09/581,976
; PRIOR FILING DATE: 2000-06-20
; PRIOR APPLICATION NUMBER: PCT/EP98/08563
; PRIOR FILING DATE: 1998-12-18
; PRIOR APPLICATION NUMBER: GB 9727262.9
; PRIOR FILING DATE: 1997-12-24
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 4
; LENGTH: 273
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Chimaeric protein (protein D from Haemophilus
; OTHER INFORMATION: influenzae B and B6 from Human papilloma virus type
US-10-899-771-4

```

```

QY      1 KFYSKISEY 9
        |||||
Db      181 KFYSKISEY 189

```

```

RESULT 15
US-10-000-903-10
, Sequence 10, Application US/10000903
, Publication No. US20020182221A1
, GENERAL INFORMATION:
, APPLICANT: Bruck, Claudine
, APPLICANT: Cabezon Silva, Teresa
, APPLICANT: Delisse, Anne-Marie Eva Fernande
, APPLICANT: Gerard, Catherine Marie Gislaine
, APPLICANT: Lombardo-Bencheikh, Angela
, TITLE OF INVENTION: Vaccine
, FILE REFERENCE: B45107
, CURRENT APPLICATION NUMBER: US/10/000,903
, CURRENT FILING DATE: 2001-10-01
, PRIOR APPLICATION NUMBER: PCT/EP98/05285
, PRIOR FILING DATE: 1998-08-17
, PRIOR APPLICATION NUMBER: GB 9717953.5
, PRIOR FILING DATE: 1997-08-22
, NUMBER OF SEQ. ID NOS: 23
, SOFTWARE: FastSeq for Windows Version 3.0
, SEQ ID NO 10
, LENGTH: 292
, TYPE: PRT
, ORGANISM: Homo sapien
US-10-000-903-10

```

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Query Match 100.0%; Score 47; DB 4; Length 292;
Best Local Similarity 100.0%; Pred. No. 3.4;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 KFYKISLEY 9
      |||||
Db      200 KFYKISLEY 208

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RESULT 16
US-10-899-771-10
/ Sequence 10, Application US/10899771
/ Publication No. US2005003163&#1
/ GENERAL INFORMATION:
/ APPLICANT: Dalemans, Wilfried L.J.
/ APPLICANT: Gerard, Catherine Marie Chistaine
/ TITLE OF INVENTION: Compositions Comprising Human Papilloma Virus Proteins
/ TITLE OF INVENTION: and Fusion Proteins Advantaged with a Cpg Oligonucleotide
/ FILE REFERENCE: B45124
/ CURRENT APPLICATION NUMBER: US/10/899,771
/ CURRENT FILING DATE: 2004-07-27
/ PRIOR APPLICATION NUMBER: US/09/581,976
/ PRIOR FILING DATE: 2000-06-20
/ PRIOR APPLICATION NUMBER: PCT/EP98/08563
/ PRIOR FILING DATE: 1998-12-18
/ PRIOR APPLICATION NUMBER: GB 9727262.9
/ PRIOR FILING DATE: 1997-12-24
/ NUMBER OF SEQ ID NOS: 28
/ SOFTWARE: FastSeq for Windows Version 3.0
/ SEQ ID NO 10
/ LENGTH: 292
/ TYPE: PRT
/ ORGANISM: Artificial Sequence
/ FEATURE:
/ OTHER INFORMATION: Chimaeric protein (Clyta from Streptococcus
/ OTHER INFORMATION: pneumoniae and E6 from Human papilloma virus type
/ OTHER INFORMATION: 16)
US-10-899-771-10

```

1 KFYSKISEY 9
|||||||

Db 200 KFYSKISEY 208

RESULT 17

US-10-000-903-6
; Sequence 6, Application US/10000903
; Publication No. US20020182221A1
; GENERAL INFORMATION:
; APPLICANT: Bruck, Claudine
; APPLICANT: Cabazon Silva, Teresa
; APPLICANT: Delisse, Anne-Marie Eva Fernandez
; APPLICANT: Gerard, Catherine Marie Ghislaine
; APPLICANT: Lombardo-Benchelkh, Angela
; TITLE OF INVENTION: Vaccine
; FILE REFERENCE: B45107
; CURRENT APPLICATION NUMBER: US/10/000,903
; CURRENT FILING DATE: 2001-10-01
; PRIOR APPLICATION NUMBER: PCT/EP98/05285
; PRIOR FILING DATE: 1998-08-17
; PRIOR APPLICATION NUMBER: GB 9717953.5
; PRIOR FILING DATE: 1997-08-22
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 6
; LENGTH: 371
; TYPE: PRT
; ORGANISM: Homo sapien
US-10-000-903-6

Query Match

100.0%; Score 47; DB 4; Length 371;

Best Local Similarity 100.0%; Pred. No. 4.2;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KFYSKISEY 9

Db 181 KFYSKISEY 189

RESULT 18

US-10-899-771-6
; Sequence 6, Application US/10899771
; Publication No. US20050031638A1
; GENERAL INFORMATION:
; APPLICANT: Dalemans, Wilfried L.J.
; APPLICANT: Gerard, Catherine Marie Ghislaine
; TITLE OF INVENTION: Compositions Comprising Human Papilloma Virus Proteins
; TITLE OF INVENTION: and Fusion Proteins Adjuvanted with a Cpg Oligonucleotide
; FILE REFERENCE: B45124
; CURRENT APPLICATION NUMBER: US/10/899,771
; CURRENT FILING DATE: 2004-07-27
; PRIOR APPLICATION NUMBER: US/09/581,976
; PRIOR FILING DATE: 2000-06-20
; PRIOR APPLICATION NUMBER: PCT/EP98/08563
; PRIOR FILING DATE: 1998-12-18
; PRIOR APPLICATION NUMBER: GB 9727262.9
; PRIOR FILING DATE: 1997-12-24
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 6
; LENGTH: 371
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Chimeric protein (protein D from Haemophilus
; OTHER INFORMATION: influenzae B and B6E7 fusion from Human papilloma
; OTHER INFORMATION: virus type 16)
US-10-899-771-6

Query Match

100.0%; Score 47; DB 5; Length 371;

Best Local Similarity 100.0%; Pred. No. 4.2;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KFYSKISEY 9

Db 181 KFYSKISEY 189

RESULT 19

US-10-000-903-14
; Sequence 14, Application US/10000903
; Publication No. US20020182221A1
; GENERAL INFORMATION:
; APPLICANT: Bruck, Claudine
; APPLICANT: Cabazon Silva, Teresa
; APPLICANT: Delisse, Anne-Marie Eva Fernandez
; APPLICANT: Gerard, Catherine Marie Ghislaine
; APPLICANT: Lombardo-Benchelkh, Angela
; TITLE OF INVENTION: Vaccine
; FILE REFERENCE: B45107
; CURRENT APPLICATION NUMBER: US/10/000,903
; CURRENT FILING DATE: 2001-10-01
; PRIOR APPLICATION NUMBER: PCT/EP98/05285
; PRIOR FILING DATE: 1998-08-17
; PRIOR APPLICATION NUMBER: GB 9717953.5
; PRIOR FILING DATE: 1997-08-22
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 14
; LENGTH: 390
; TYPE: PRT
; ORGANISM: Homo sapien
US-10-000-903-14

Query Match

100.0%; Score 47; DB 4; Length 390;

Best Local Similarity 100.0%; Pred. No. 4.4;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KFYSKISEY 9

Db 200 KFYSKISEY 208

RESULT 20

US-10-899-771-14
; Sequence 14, Application US/10899771
; Publication No. US20050031638A1
; GENERAL INFORMATION:
; APPLICANT: Dalemans, Wilfried L.J.
; APPLICANT: Gerard, Catherine Marie Ghislaine
; TITLE OF INVENTION: Compositions Comprising Human Papilloma Virus Proteins
; TITLE OF INVENTION: and Fusion Proteins Adjuvanted with a Cpg Oligonucleotide
; FILE REFERENCE: B45124
; CURRENT APPLICATION NUMBER: US/10/899,771
; CURRENT FILING DATE: 2004-07-27
; PRIOR APPLICATION NUMBER: US/09/581,976
; PRIOR FILING DATE: 2000-06-20
; PRIOR APPLICATION NUMBER: PCT/EP98/08563
; PRIOR FILING DATE: 1998-12-18
; PRIOR APPLICATION NUMBER: GB 9727262.9
; PRIOR FILING DATE: 1997-12-24
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 14
; LENGTH: 390
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Chimeric protein (Clyta from Streptococcus
; OTHER INFORMATION: pneumoniae and B6E7 fusion from Human papilloma
; OTHER INFORMATION: virus type 16)
US-10-899-771-14

Query Match

100.0%; Score 47; DB 5; Length 390;

Best Local Similarity 100.0%; Pred. No. 4.4;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KFSKISEY 9
| | | | |
Db 200 KFSKISEY 208

RESULT 21
US-10-476-570-31

/ Sequence 31, Application US/10476570
/ Publication No. US20040170644A1

/ GENERAL INFORMATION:

/ APPLICANT: COMMISSARIAT A L'ENERGIE ATOMIQUE

/ APPLICANT: INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE

/ APPLICANT: MAILLERE, Bernard

/ APPLICANT: BOURGAULT-VILLADA, Isabelle

/ APPLICANT: POUVELE-MORATILLE, Sandra

/ APPLICANT: GUILLET, Jean-Gerard

/ TITLE OF INVENTION: Mixture of peptides derived from E6 and/or E7

/ TITLE OF INVENTION: papillomavirus proteins and uses thereof

/ FILE REFERENCE: 45636-5071-US

/ CURRENT FILING DATE: 2003-11-04

/ PRIOR APPLICATION NUMBER: PCT/FR02/01533

/ PRIOR FILING DATE: 2002-05-03

/ PRIOR APPLICATION NUMBER: FR 01 05980

/ PRIOR FILING DATE: 2001-05-04

/ NUMBER OF SEQ ID NOS: 63

/ SOFTWARE: PatentIn Ver. 2.1

/ SEQ ID NO 31

/ LENGTH: 15

/ TYPE: PRT

/ ORGANISM: artificial sequence

/ FEATURE:

/ OTHER INFORMATION: Description of the artificial sequence: peptide E6 76-90

US-10-476-570-31

Query Match 89.4%; Score 42; DB 4; Length 15;
Best Local Similarity 100.0%; Pred. No. 1.6;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 FYSKISEY 9
| | | | |
Db 1 FYSKISEY 8

RESULT 22
US-10-476-570-12

/ Sequence 12, Application US/10476570

/ Publication No. US20040170644A1

/ GENERAL INFORMATION:

/ APPLICANT: COMMISSARIAT A L'ENERGIE ATOMIQUE

/ APPLICANT: INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE

/ APPLICANT: MAILLERE, Bernard

/ APPLICANT: BOURGAULT-VILLADA, Isabelle

/ APPLICANT: POUVELE-MORATILLE, Sandra

/ APPLICANT: GUILLET, Jean-Gerard

/ TITLE OF INVENTION: Mixture of peptides derived from E6 and/or E7

/ TITLE OF INVENTION: papillomavirus proteins and uses thereof

/ FILE REFERENCE: 45636-5071-US

/ CURRENT FILING DATE: 2003-11-04

/ PRIOR APPLICATION NUMBER: PCT/FR02/01533

/ PRIOR FILING DATE: 2002-05-03

/ PRIOR APPLICATION NUMBER: FR 01 05980

/ PRIOR FILING DATE: 2001-05-04

/ NUMBER OF SEQ ID NOS: 63

/ SOFTWARE: PatentIn Ver. 2.1

/ SEQ ID NO 12

/ LENGTH: 20

/ TYPE: PRT

/ ORGANISM: artificial sequence

/ FEATURE:

/ OTHER INFORMATION: Description of the artificial sequence: peptide E6 76-95

US-10-476-570-12

Query Match 89.4%; Score 42; DB 4; Length 20;
Best Local Similarity 100.0%; Pred. No. 2.1;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 FYSKISEY 9
| | | | |
Db 1 FYSKISEY 8

RESULT 23
US-11-021-949-19

/ Sequence 19, Application US/11021949

/ Publication No. US20050142541A1

/ GENERAL INFORMATION:

/ APPLICANT: LU, PETER

/ APPLICANT: GARMAN, JONATHAN DAVID

/ APPLICANT: BELMARES, MICHAEL P.

/ APPLICANT: DIAZ-SARMIENTO, CHAMORRO SOMOZA

/ APPLICANT: SCHWEIZER, JOHANNES

/ TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV

/ TITLE OF INVENTION: AND METHODS OF THEIR USE

/ FILE REFERENCE: VITA-012

/ CURRENT APPLICATION NUMBER: US/11/021,949

/ PRIOR FILING DATE: 2004-12-23

/ PRIOR APPLICATION NUMBER: 60/532,373

/ PRIOR FILING DATE: 2003-12-23

/ NUMBER OF SEQ ID NOS: 361

/ SOFTWARE: FaastSeq for Windows Version 4.0

/ SEQ ID NO 19

/ LENGTH: 148

/ TYPE: PRT

/ ORGANISM: human papilloma virus (HPV)

US-11-021-949-19

Query Match 89.4%; Score 42; DB 6; Length 148;
Best Local Similarity 88.9%; Pred. No. 13;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 KFSKISEY 9
| | | | |
Db 69 KFSKIREY 77

RESULT 24
US-11-021-949-18

/ Sequence 18, Application US/11021949

/ Publication No. US20050142541A1

/ GENERAL INFORMATION:

/ APPLICANT: LU, PETER

/ APPLICANT: GARMAN, JONATHAN DAVID

/ APPLICANT: BELMARES, MICHAEL P.

/ APPLICANT: DIAZ-SARMIENTO, CHAMORRO SOMOZA

/ APPLICANT: SCHWEIZER, JOHANNES

/ TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV

/ TITLE OF INVENTION: AND METHODS OF THEIR USE

/ FILE REFERENCE: VITA-012

/ CURRENT APPLICATION NUMBER: US/11/021,949

/ PRIOR FILING DATE: 2004-12-23

/ PRIOR APPLICATION NUMBER: 60/532,373

/ PRIOR FILING DATE: 2003-12-23

/ NUMBER OF SEQ ID NOS: 361

/ SOFTWARE: FaastSeq for Windows Version 4.0

/ SEQ ID NO 18

/ LENGTH: 149

/ TYPE: PRT

/ ORGANISM: human papilloma virus (HPV)

US-11-021-949-18

Query Match 83.0%; Score 39; DB 6; Length 149;
Best Local Similarity 66.7%; Pred. No. 44;
Matches 6; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

OY 1 KFYSKISEY 9
:||||:|
Db 68 RPYSKVSEF 76

RESULT 25
US-11-021-949-27
; Sequence 27, Application US/11021949
; Publication No. US20050142541A1
; GENERAL INFORMATION:
; APPLICANT: LU, PETER
; APPLICANT: GARMAN, JONATHAN DAVID
; APPLICANT: BELMARES, MICHAEL P.
; APPLICANT: DIAZ-SARMIENTO, CHAMORRO SOWOZA
; APPLICANT: SCHWEIZER, JOHANNES
; TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
; FILE REFERENCE: VITA-012
; CURRENT FILING DATE: 2004-12-23
; PRIOR FILING DATE: 2004-12-23
; PRIOR APPLICATION NUMBER: 60/532,373
; NUMBER OF SEQ ID NOS: 361
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 27
; LENGTH: 150
; TYPE: PRT
; ORGANISM: human papilloma virus (HPV)
US-11-021-949-27

Query Match 83.0%; Score 39; DB 6; Length 150;
Best Local Similarity 87.5%; Pred. No. 44;
Matches 7; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

OY 2 FYSKISEY 9
||||:|
Db 69 FYSKITEY 76

RESULT 26
US-11-021-949-24
; Sequence 24, Application US/11021949
; Publication No. US20050142541A1
; GENERAL INFORMATION:
; APPLICANT: LU, PETER
; APPLICANT: GARMAN, JONATHAN DAVID
; APPLICANT: BELMARES, MICHAEL P.
; APPLICANT: DIAZ-SARMIENTO, CHAMORRO SOWOZA
; APPLICANT: SCHWEIZER, JOHANNES
; TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
; FILE REFERENCE: VITA-012
; CURRENT FILING DATE: 2004-12-23
; PRIOR FILING DATE: 2004-12-23
; PRIOR APPLICATION NUMBER: 60/532,373
; NUMBER OF SEQ ID NOS: 361
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 24
; LENGTH: 151
; TYPE: PRT
; ORGANISM: human papilloma virus (HPV)
US-11-021-949-24

Query Match 78.7%; Score 37; DB 6; Length 151;
Best Local Similarity 87.5%; Pred. No. 99;
Matches 7; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 2 FYSKISEY 9
||||:|
Db 69 FYSKIREY 76

RESULT 27
US-09-918-715-246
; Sequence 246, Application US/09918715
; Publication No. US20030017157A1
; GENERAL INFORMATION:
; APPLICANT: Brad St. Croix
; APPLICANT: Bert Vogelstein
; APPLICANT: Kenneth Kinzler
; TITLE OF INVENTION: ENDOTHELIAL CELL EXPRESSION PATTERNS
; FILE REFERENCE: 1107.00134
; CURRENT FILING DATE: US/09/918, 715
; PRIOR FILING DATE: 2001-08-01
; PRIOR APPLICATION NUMBER: 60/222,559
; PRIOR FILING DATE: 2000-08-02
; PRIOR APPLICATION NUMBER: 60/224,360
; PRIOR FILING DATE: 2000-08-11
; PRIOR APPLICATION NUMBER: 60/282,850
; NUMBER OF SEQ ID NOS: 358
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 246
; LENGTH: 818
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-918-715-246

Query Match 78.7%; Score 37; DB 3; Length 818;
Best Local Similarity 77.8%; Pred. No. 4.7e+02;
Matches 7; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

OY 1 KFYSKISEY 9
||||:|
Db 383 KFLSKISEY 391

RESULT 28
US-10-474-794-246
; Sequence 246, Application US/10474794
; Publication No. US20040213793A1
; GENERAL INFORMATION:
; APPLICANT: Carson-Walter, Eleanor
; APPLICANT: St. Croix, Brad
; APPLICANT: Vogelstein, Bert
; APPLICANT: Kinzler, Kenneth
; TITLE OF INVENTION: ENDOTHELIAL CELL EXPRESSION PATTERNS
; FILE REFERENCE: 1107.00179
; CURRENT FILING DATE: US/10/474, 794
; PRIOR FILING DATE: 2003-10-14
; PRIOR APPLICATION NUMBER: 60/282,850
; PRIOR FILING DATE: 2001-04-11
; PRIOR APPLICATION NUMBER: 60/308,829
; PRIOR FILING DATE: 2001-08-01
; NUMBER OF SEQ ID NOS: 359
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 246
; LENGTH: 818
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-474-794-246

Query Match 78.7%; Score 37; DB 4; Length 818;
Best Local Similarity 77.8%; Pred. No. 4.7e+02;
Matches 7; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

OY 1 KFYSKISEY 9
||||:|
Db 383 KFLSKISEY 391

RESULT 29
US-10-979-159-246
; Sequence 246, Application US/10979159
; Publication No. US20050142138A1

```
; GENERAL INFORMATION:
; APPLICANT: Brad St. Croix
; APPLICANT: Bert Vogelstein
; APPLICANT: Kenneth Kinzler
; TITLE OF INVENTION: ENDOTHELIAL CELL EXPRESSION PATTERNS
; FILE REFERENCE: 1107.00134
; CURRENT APPLICATION NUMBER: US/10/979,159
; PRIOR FILING DATE: 2004-11-03
; PRIOR APPLICATION NUMBER: US/09/918,715
; PRIOR FILING DATE: 2001-08-01
; PRIOR APPLICATION NUMBER: 60/222,599
; PRIOR FILING DATE: 2000-08-02
; PRIOR APPLICATION NUMBER: 60/224,360
; PRIOR FILING DATE: 2000-08-11
; PRIOR APPLICATION NUMBER: 60/282,850
; PRIOR FILING DATE: 2000-04-11
; NUMBER OF SEQ ID NOS: 358
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 246
; LENGTH: 818
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-979-159-246

Query Match          78.7%; Score 37; DB 5; Length 818;
Best Local Similarity 77.8%; Pred. No. 4.7e+02;
Matches 7; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY      1 KFYSKISEY 9
DB      383 RFLSKISEY 391

RESULT 30
US-11-021-949-17
; Sequence 17, Application US/11021949
; Publication No. US20050142541A1
; GENERAL INFORMATION:
; APPLICANT: LU, PETER
; APPLICANT: GARMAN, JONATHAN DAVID
; APPLICANT: BELMARES, MICHAEL P.
; APPLICANT: DIAZ-SARMIENTO, CHAMORRO SOMOZA
; APPLICANT: SCHWEIZER, JOHANNES
; TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
; TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
; FILE REFERENCE: VITA-012
; CURRENT APPLICATION NUMBER: US/11/021,949
; PRIOR FILING DATE: 2004-12-23
; PRIOR APPLICATION NUMBER: 60/532,373
; PRIOR FILING DATE: 2003-12-23
; NUMBER OF SEQ ID NOS: 361
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 17
; LENGTH: 148
; TYPE: PRT
; ORGANISM: human papilloma virus (HPV)
US-11-021-949-17

Query Match          76.6%; Score 36; DB 6; Length 148;
Best Local Similarity 77.8%; Pred. No. 1.4e+02;
Matches 7; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
```

```
; APPLICANT: GARMAN, JONATHAN DAVID
; APPLICANT: BELMARES, MICHAEL P.
; APPLICANT: DIAZ-SARMIENTO, CHAMORRO SOMOZA
; APPLICANT: SCHWEIZER, JOHANNES
; TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
; TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
; FILE REFERENCE: VITA-012
; CURRENT APPLICATION NUMBER: US/11/021,949
; PRIOR FILING DATE: 2004-12-23
; PRIOR APPLICATION NUMBER: 60/532,373
; PRIOR FILING DATE: 2003-12-23
; NUMBER OF SEQ ID NOS: 361
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 16
; LENGTH: 149
; TYPE: PRT
; ORGANISM: human papilloma virus (HPV)
US-11-021-949-16

Query Match          76.6%; Score 36; DB 6; Length 149;
Best Local Similarity 77.8%; Pred. No. 1.5e+02;
Matches 7; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY      1 KFYSKISEY 9
DB      68 RFLSKISEY 76

RESULT 32
US-11-021-949-26
; Sequence 26, Application US/11021949
; Publication No. US20050142541A1
; GENERAL INFORMATION:
; APPLICANT: LU, PETER
; APPLICANT: GARMAN, JONATHAN DAVID
; APPLICANT: BELMARES, MICHAEL P.
; APPLICANT: DIAZ-SARMIENTO, CHAMORRO SOMOZA
; APPLICANT: SCHWEIZER, JOHANNES
; TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
; TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
; FILE REFERENCE: VITA-012
; CURRENT APPLICATION NUMBER: US/11/021,949
; PRIOR FILING DATE: 2004-12-23
; PRIOR APPLICATION NUMBER: 60/532,373
; PRIOR FILING DATE: 2003-12-23
; NUMBER OF SEQ ID NOS: 361
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 26
; LENGTH: 151
; TYPE: PRT
; ORGANISM: human papilloma virus (HPV)
US-11-021-949-26

Query Match          76.6%; Score 36; DB 6; Length 151;
Best Local Similarity 87.5%; Pred. No. 1.5e+02;
Matches 7; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      2 FYSKISEY 9
DB      69 FYSKISEY 76

RESULT 33
US-10-437-963-140423
; Sequence 140423, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovallig, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; APPLICANT: Wu, Wei
; APPLICANT: Boukharov, Andrey A.
```

```

; APPLICANT: Barbazuk, Brad
; APPLICANT: Li, Ping
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53221)B
; CURRENT APPLICATION NUMBER: US/10/437,963
; CURRENT FILING DATE: 2003-05-14
; NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 140423
; LENGTH: 353
; TYPE: PRT
; ORGANISM: Oryza sativa
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT4530_41621C.1.pcp
US-10-437-963-140423

Query Match
Best Local Similarity 76.6%; Score 36; DB 4; Length 353;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3 YSKISEY 9
Db 190 YSKISEY 196

RESULT 34
US-10-369-493-21946
; Sequence 21946, Application US/10369493
; Publication No. US2003023675A1
; GENERAL INFORMATION:
; APPLICANT: Cao, Yongwei
; APPLICANT: Hinkle, Gregory J.
; APPLICANT: Slater, Steven C.
; APPLICANT: Goldman, Barry S.
; APPLICANT: Chen, Xiandeng
; TITLE OF INVENTION: EXPRESSION OF MICROBIAL PROTEINS IN PLANTS FOR PRODUCTION OF
; TITLE OF INVENTION: PLANTS WITH IMPROVED PROPERTIES
; FILE REFERENCE: 38-10(52052)B
; CURRENT APPLICATION NUMBER: US/10/369,493
; CURRENT FILING DATE: 2003-02-28
; PRIOR APPLICATION NUMBER: US 60/360,039
; PRIOR FILING DATE: 2002-02-21
; NUMBER OF SEQ ID NOS: 47324
; SEQ ID NO 21946
; LENGTH: 480
; TYPE: PRT
; ORGANISM: Saccharomyces cerevisiae
US-10-369-493-21946

Query Match
Best Local Similarity 76.6%; Score 36; DB 4; Length 480;
Matches 7; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 KFYSKISE 8
Db 402 KFYKISE 409

RESULT 35
US-10-437-963-194869
; Sequence 194869, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; APPLICANT: Mu, Wei
; APPLICANT: Boukharov, Andrey A.
; APPLICANT: Barbazuk, Brad
; APPLICANT: Li, Ping
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
```

```

; FILE REFERENCE: 38-21(53221)B
; CURRENT APPLICATION NUMBER: US/10/437,963
; CURRENT FILING DATE: 2003-05-14
; NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 194869
; LENGTH: 43
; TYPE: PRT
; ORGANISM: Oryza sativa
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT4530_90873C.1.pcp
US-10-437-963-194869

Query Match
Best Local Similarity 74.5%; Score 35; DB 4; Length 43;
Matches 5; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY 1 KFYSKISEY 9
Db 4 RFGSRMAEY 12

RESULT 36
US-10-425-115-194792
; Sequence 194792, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants
; FILE REFERENCE: 38-21(53222)B
; CURRENT APPLICATION NUMBER: US/10/425,115
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 194792
; LENGTH: 229
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: MRT4577_109239C.1.pcp
US-10-425-115-194792

Query Match
Best Local Similarity 74.5%; Score 35; DB 4; Length 229;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KFYSKIS 7
Db 174 KFYSKIS 180

RESULT 37
US-10-425-115-194796
; Sequence 194796, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants
; FILE REFERENCE: 38-21(53222)B
; CURRENT APPLICATION NUMBER: US/10/425,115
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 194796
; LENGTH: 237
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
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; NAME/KEY: unsure
; LOCATION: (1)..(237)
; OTHER INFORMATION: unsure at all Xaa locations
; FEATURE:
; OTHER INFORMATION: Clone ID: MRT4577_109242C.1.pcp
US-10-425-115-194796
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Query Match          74.5%; Score 35; DB 4; Length 237;
Best Local Similarity 100.0%; Pred. No. 3.3e+02;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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```
QY      1 KFYSKIS 7
        |||:|
        185 KFYSKIS 191
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RESULT 38
US-10-038-010-50
; Sequence 50, Application US/10038010
; Publication No. US20030040089A1
; GENERAL INFORMATION:
; APPLICANT: HYBRIGENICS
; APPLICANT: Pierre, Legrain
; TITLE OF INVENTION: Protein-protein interactions in adipocyte cells
; FILE REFERENCE: B4767A
; CURRENT APPLICATION NUMBER: US/10/038,010
; PRIOR FILING DATE: 2002-07-23
; PRIOR APPLICATION NUMBER: US 60/259,377
; PRIOR FILING DATE: 2001-01-02
; NUMBER OF SEQ ID NOS: 67
; SOFTWARE: Patentin version 3.1
; SEQ ID NO 50
; LENGTH: 688
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: ADR kinase 2
; LOCATION: (1)..(688)
; OTHER INFORMATION:
US-10-038-010-50
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Query Match          74.5%; Score 35; DB 4; Length 688;
Best Local Similarity 66.7%; Pred. No. 8.9e+02;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;
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```
QY      1 KFYSKISEY 9
        |||:|
        84 KFYBRIKEY 92
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RESULT 39
US-10-029-020-45
; Sequence 45, Application US/10029020
; Publication No. US20040033971A1
; GENERAL INFORMATION:
; APPLICANT: Gangolli et al.
; TITLE OF INVENTION: Polypeptides and Nucleic Acids Encoding Same
; FILE REFERENCE: 21402-225
; CURRENT APPLICATION NUMBER: US/10/029,020
; PRIOR FILING DATE: 2001-12-19
; PRIOR APPLICATION NUMBER: 60/256,704
; PRIOR FILING DATE: 2000-12-19
; PRIOR APPLICATION NUMBER: 60/311,590
; PRIOR FILING DATE: 2001-08-10
; PRIOR APPLICATION NUMBER: 60/257,314
; PRIOR FILING DATE: 2000-12-20
; PRIOR APPLICATION NUMBER: 60/311,613
; PRIOR FILING DATE: 2001-08-10
; PRIOR APPLICATION NUMBER: 60/315,617
; PRIOR FILING DATE: 2001-08-29
; PRIOR APPLICATION NUMBER: 60/307,506
; PRIOR FILING DATE: 2001-07-24
; PRIOR APPLICATION NUMBER: 60/322,358
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; PRIOR FILING DATE: 2001-09-14
; PRIOR APPLICATION NUMBER: 60/294,075
; PRIOR FILING DATE: 2001-05-29
; PRIOR APPLICATION NUMBER: 60/288,153
; PRIOR FILING DATE: 2001-05-02
; NUMBER OF SEQ ID NOS: 190
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 45
; LENGTH: 688
; TYPE: PRT
; ORGANISM: Rattus norvegicus
US-10-029-020-45
```

```
Query Match          74.5%; Score 35; DB 4; Length 688;
Best Local Similarity 66.7%; Pred. No. 8.9e+02;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;
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```
QY      1 KFYSKISEY 9
        |||:|
        84 KFYBRIKEY 92
```

```
RESULT 40
US-10-029-020-48
; Sequence 48, Application US/10029020
; Publication No. US20040033971A1
; GENERAL INFORMATION:
; APPLICANT: Gangolli et al.
; TITLE OF INVENTION: Polypeptides and Nucleic Acids Encoding Same
; FILE REFERENCE: 21402-225
; CURRENT APPLICATION NUMBER: US/10/029,020
; PRIOR FILING DATE: 2001-12-19
; PRIOR APPLICATION NUMBER: 60/256,704
; PRIOR FILING DATE: 2000-12-19
; PRIOR APPLICATION NUMBER: 60/311,590
; PRIOR FILING DATE: 2001-08-10
; PRIOR APPLICATION NUMBER: 60/257,314
; PRIOR FILING DATE: 2000-12-20
; PRIOR APPLICATION NUMBER: 60/311,613
; PRIOR FILING DATE: 2001-08-10
; PRIOR APPLICATION NUMBER: 60/315,617
; PRIOR FILING DATE: 2001-08-29
; PRIOR APPLICATION NUMBER: 60/307,506
; PRIOR FILING DATE: 2001-05-29
; PRIOR APPLICATION NUMBER: 60/288,153
; PRIOR FILING DATE: 2001-05-02
; NUMBER OF SEQ ID NOS: 190
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 48
; LENGTH: 688
; TYPE: PRT
; ORGANISM: Bos taurus
US-10-029-020-48
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Query Match          74.5%; Score 35; DB 4; Length 688;
Best Local Similarity 66.7%; Pred. No. 8.9e+02;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;
```

```
QY      1 KFYSKISEY 9
        |||:|
        84 KFYBRIKEY 92
```

```
RESULT 41
US-10-029-020-49
; Sequence 49, Application US/10029020
; Publication No. US20040033971A1
; GENERAL INFORMATION:
; APPLICANT: Gangolli et al.
```

```
; TITLE OF INVENTION: Polypeptides and Nucleic Acids Encoding Same
; FILE REFERENCE: 21402-225
; CURRENT APPLICATION NUMBER: US/10/029,020
; CURRENT FILING DATE: 2001-12-19
; PRIOR APPLICATION NUMBER: 60/256,704
; PRIOR FILING DATE: 2000-12-19
; PRIOR APPLICATION NUMBER: 60/311,590
; PRIOR FILING DATE: 2001-08-10
; PRIOR APPLICATION NUMBER: 60/257,314
; PRIOR FILING DATE: 2000-12-20
; PRIOR APPLICATION NUMBER: 60/311,613
; PRIOR FILING DATE: 2001-08-10
; PRIOR APPLICATION NUMBER: 60/315,617
; PRIOR FILING DATE: 2001-08-29
; PRIOR APPLICATION NUMBER: 60/307,506
; PRIOR FILING DATE: 2001-07-24
; PRIOR APPLICATION NUMBER: 60/322,358
; PRIOR FILING DATE: 2001-09-14
; PRIOR APPLICATION NUMBER: 60/294,075
; PRIOR FILING DATE: 2001-05-29
; PRIOR APPLICATION NUMBER: 60/288,153
; PRIOR FILING DATE: 2001-05-02
; NUMBER OF SEQ ID NOS: 190
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 49
; LENGTH: 688
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-029-020-49
```

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Query Match          74.5%; Score 35; DB 4; Length 688;
Best Local Similarity 66.7%; Pred. No. 8.9e+02;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;
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```
Qy      1 KFYSKISEY 9
      ||| : |||
Db      84 KFYBEIKY 92
```

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RESULT 42
US-10-788-197-25
; Sequence 25, Application US/10788197
; Publication No. US20050032125A1
; GENERAL INFORMATION:
; APPLICANT: OAKLEY, ROBERT H.
; APPLICANT: HUDSON, CHRISTINE C.
; TITLE OF INVENTION: CONSTITUTIVELY TRANSLLOCATING CELL LINE
; FILE REFERENCE: NRK.108
; CURRENT APPLICATION NUMBER: US/10/788,197
; CURRENT FILING DATE: 2004-02-26
; PRIOR APPLICATION NUMBER: PCT/US03/14581
; PRIOR FILING DATE: 2003-05-12
; PRIOR APPLICATION NUMBER: 60/379,986
; PRIOR FILING DATE: 2002-05-13
; PRIOR APPLICATION NUMBER: 60/401,698
; PRIOR FILING DATE: 2002-08-07
; NUMBER OF SEQ ID NOS: 94
; SOFTWARE: PatentIn Ver. 3.2
; SEQ ID NO 25
; LENGTH: 688
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-788-197-25
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```
Query Match          74.5%; Score 35; DB 5; Length 688;
Best Local Similarity 66.7%; Pred. No. 8.9e+02;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;
```

```
Qy      1 KFYSKISEY 9
      ||| : |||
Db      84 KFYBEIKY 92
```

```
RESULT 43
US-10-788-197-27
; Sequence 27, Application US/10788197
; Publication No. US20050032125A1
; GENERAL INFORMATION:
; APPLICANT: OAKLEY, ROBERT H.
; APPLICANT: HUDSON, CHRISTINE C.
; TITLE OF INVENTION: CONSTITUTIVELY TRANSLLOCATING CELL LINE
; FILE REFERENCE: NRK.108
; CURRENT APPLICATION NUMBER: US/10/788,197
; CURRENT FILING DATE: 2004-02-26
; PRIOR APPLICATION NUMBER: PCT/US03/14581
; PRIOR FILING DATE: 2003-05-12
; PRIOR APPLICATION NUMBER: 60/379,986
; PRIOR FILING DATE: 2002-05-13
; PRIOR APPLICATION NUMBER: 60/401,698
; PRIOR FILING DATE: 2002-08-07
; NUMBER OF SEQ ID NOS: 94
; SOFTWARE: PatentIn Ver. 3.2
; SEQ ID NO 27
; LENGTH: 688
; TYPE: PRT
; ORGANISM: Bos taurus
US-10-788-197-27
```

```
Query Match          74.5%; Score 35; DB 5; Length 688;
Best Local Similarity 66.7%; Pred. No. 8.9e+02;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;
```

```
Qy      1 KFYSKISEY 9
      ||| : |||
Db      84 KFYBEIKY 92
```

```
RESULT 44
US-10-087-192-1071
; Sequence 1071, Application US/10087192
; Publication No. US20020182586A1
; GENERAL INFORMATION:
; APPLICANT: Morris, David W.
; APPLICANT: Engelhard, Eric K.
; TITLE OF INVENTION: NOVEL COMPOSITIONS AND METHODS FOR
; FILE REFERENCE: 529452000122
; CURRENT APPLICATION NUMBER: US/10/087,192
; CURRENT FILING DATE: 2002-03-01
; PRIOR APPLICATION NUMBER: US 09/747,377
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: US 09/798,586
; PRIOR FILING DATE: 2001-03-02
; NUMBER OF SEQ ID NOS: 2059
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1071
; LENGTH: 1521
; TYPE: PRT
; ORGANISM: Mus musculus
US-10-087-192-1071
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Query Match          74.5%; Score 35; DB 4; Length 1521;
Best Local Similarity 75.0%; Pred. No. 1.9e+03;
Matches 6; Conservative 2; Mismatches 0; Indels 0; Gaps 0;
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Qy      1 KFYSKISE 8
      ||||| : |||
Db      640 RYFSKLSR 647
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RESULT 45
US-10-467-909-5
; Sequence 5, Application US/10467909
; Publication No. US20040137450A1
; GENERAL INFORMATION:
; APPLICANT: HADANO, SHINJI
```



```

; APPLICANT: IKEDA, JOH-E
; APPLICANT: HAYDEN, MICHAEL R.
; TITLE OF INVENTION: ALS2 Gene and Amyotrophic Lateral Sclerosis Type 2
; FILE REFERENCE: SMAR-031
; CURRENT APPLICATION NUMBER: US/10/467,909
; CURRENT FILING DATE: 2003-08-11
; PRIOR APPLICATION NUMBER: PCT/CA02/00147
; PRIOR FILING DATE: 2002-02-12
; PRIOR APPLICATION NUMBER: US 60/267,723
; PRIOR FILING DATE: 2001-02-12
; PRIOR APPLICATION NUMBER: JP 2001-116973
; PRIOR FILING DATE: 2001-04-16
; PRIOR APPLICATION NUMBER: US 60/318,352
; PRIOR FILING DATE: 2001-09-12
; NUMBER OF SEQ ID NOS: 84
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 5
; LENGTH: 1651
; TYPE: PRT
; ORGANISM: Mus musculus
US-10-467-909-5

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Query Match          74.5%; Score 35; DB 4; Length 1651;
Best Local Similarity 75.0%; Pred. No. 2e+03;
Matches 6; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

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QY      1 KFYSKISE 8
Db      698 RPYSKISE 705

```

```

RESULT 46
US-10-425-115-238474
; Sequence 238474, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovacic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53222)B
; CURRENT APPLICATION NUMBER: US/10/425,115
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 238474
; LENGTH: 59
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: MRT4577_149078C.1.pep
US-10-425-115-238474

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Query Match          72.3%; Score 34; DB 4; Length 59;
Best Local Similarity 87.5%; Pred. No. 1.4e+02;
Matches 7; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

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```

QY      1 KFYSKISE 8
Db      41 KFYLIKISE 48

```

```

RESULT 47
US-10-767-701-57456
; Sequence 57456, Application US/107677701
; Publication No. US20040172684A1
; GENERAL INFORMATION:
; APPLICANT: Kovacic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof For Plant Improvement

```

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; FILE REFERENCE: 38-21(53535)B
; CURRENT APPLICATION NUMBER: US/10/767,701
; CURRENT FILING DATE: 2004-01-23
; NUMBER OF SEQ ID NOS: 63128
; SEQ ID NO 57456
; LENGTH: 88
; TYPE: PRT
; ORGANISM: Sorghum bicolor
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)..(88)
; OTHER INFORMATION: unsure at all Xaa locations
; OTHER INFORMATION: Clone ID: 30967523.pep
US-10-767-701-57456

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Query Match          72.3%; Score 34; DB 4; Length 88;
Best Local Similarity 75.0%; Pred. No. 2e+02;
Matches 6; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

```

```

QY      2 FYSKISEY 9
Db      2 FYSKISEH 9

```

```

RESULT 48
US-11-021-949-25
; Sequence 25, Application US/11021949
; Publication No. US20050142541A1
; GENERAL INFORMATION:
; APPLICANT: LU, PETER
; APPLICANT: GARMAN, JONATHAN DAVID
; APPLICANT: BELMARES, MICHAEL P.
; APPLICANT: DIAZ-SAMIENTO, CHAMORRO SOMOZA
; APPLICANT: SCHWEIZER, JOHANNES
; TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
; FILE REFERENCE: VITA-012
; CURRENT APPLICATION NUMBER: US/11/021,949
; CURRENT FILING DATE: 2004-12-23
; PRIOR APPLICATION NUMBER: 60/532,373
; PRIOR FILING DATE: 2003-12-23
; NUMBER OF SEQ ID NOS: 361
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 25
; LENGTH: 151
; TYPE: PRT
; ORGANISM: human papilloma virus (HPV)
US-11-021-949-25

```

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Query Match          72.3%; Score 34; DB 6; Length 151;
Best Local Similarity 75.0%; Pred. No. 3.3e+02;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

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```

QY      2 FYSKISEY 9
Db      69 FYSKISEY 76

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```

RESULT 49
US-10-096-373-16
; Sequence 16, Application US/10096373
; Publication No. US20030091544A1
; GENERAL INFORMATION:
; APPLICANT: Parker, Suzanne B.
; APPLICANT: Horton, Holly M.
; TITLE OF INVENTION: INTERFERON-BETA POLYNUCLEOTIDE THERAPY FOR
; TITLE OF INVENTION: AUTOIMMUNE AND INFLAMMATORY DISEASES
; FILE REFERENCE: 1530.0380001
; CURRENT APPLICATION NUMBER: US/10/096,373
; CURRENT FILING DATE: 2002-03-13
; PRIOR APPLICATION NUMBER: 60/275,044
; PRIOR FILING DATE: 2001-03-13

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; NUMBER OF SEQ ID NOS: 22
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 16
; LENGTH: 186
; TYPE: PRT
; ORGANISM: Equus caballus
US-10-096-373-16

Query Match 72.3%; Score 34; DB 4; Length 186;
Best Local Similarity 55.6%; Pred. No. 4e+02;
Matches 5; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

Qy 1 KFYSKISEX 9
Db 144 KYGRISQY 152

RESULT 50
US-10-369-493-6248
; Sequence 6248; Application US/10369493
; Publication No. US2003023675A1
; GENERAL INFORMATION:
; APPLICANT: Cao, Yongwei
; APPLICANT: Hinkle, Gregory J.
; APPLICANT: Slater, Steven C.
; APPLICANT: Goldman, Barry S.
; APPLICANT: Chen, Xianfeng
; TITLE OF INVENTION: EXPRESSION OF MICROBIAL PROTEINS IN PLANTS FOR PRODUCTION OF
; FILE REFERENCE: 38-10(52052)B
; CURRENT APPLICATION NUMBER: US/10/369,493
; PRIOR APPLICATION NUMBER: 2003-02-28
; PRIOR FILING DATE: 2002-02-21
; NUMBER OF SEQ ID NOS: 47374
; SEQ ID NO 6248
; LENGTH: 534
; TYPE: PRT
; ORGANISM: Caenorhabditis elegans
US-10-369-493-6248

Query Match 72.3%; Score 34; DB 4; Length 534;
Best Local Similarity 66.7%; Pred. No. 1.1e+03;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Qy 1 KFYSKISEX 9
Db 392 KFYSLWEX 400

Search completed: May 5, 2006, 08:07:28
Job time : 63 secs

GenCore version 5.1.7
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OM protein - protein search, using SW model

Run on: May 5, 2006, 07:56:56 ; Search time 8.4 Seconds
(without alignments)
49.591 Million cell updates/sec

Title: US-08-170-344-48
Perfect score: 47
Sequence: 1 KFSKRSYR 9

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Gapop 10.0 , Gapext 0.5

Searched: 235405 seqs, 46284737 residues
Total number of hits satisfying chosen parameters: 235405

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 1000 summaries

Database : Published Applications_AA_New.*
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12: /SIDS5/ptodata/1/pubpaa/US60_NEW_PUB.pep1.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	47	100.0	10	US-10-530-061-504	Sequence 504, App
2	47	100.0	149	US-10-530-253-18	Sequence 18, Appl
3	47	100.0	151	US-10-530-253-13	Sequence 13, Appl
4	47	100.0	158	US-11-206-138-3	Sequence 3, Appl1
5	47	100.0	248	US-10-530-253-1	Sequence 1, Appl1
6	47	100.0	248	US-10-530-253-3	Sequence 3, Appl1
7	47	100.0	248	US-10-530-253-5	Sequence 5, Appl1
8	47	100.0	248	US-10-530-253-7	Sequence 7, Appl1
9	47	100.0	248	US-10-530-253-9	Sequence 9, Appl1
10	47	100.0	248	US-10-530-253-11	Sequence 11, Appl1
11	47	100.0	256	US-11-192-923A-2	Sequence 2, Appl1
12	44	93.6	9	US-10-530-061-78	Sequence 78, Appl
13	44	93.6	9	US-10-530-061-802	Sequence 802, Appl
14	44	93.6	9	US-10-530-061-79	Sequence 79, Appl
15	43	91.5	9	US-10-530-061-803	Sequence 803, Appl
16	41	87.2	10	US-10-530-061-503	Sequence 503, Appl
17	39	83.0	10	US-10-530-061-537	Sequence 537, Appl
18	39	83.0	149	US-10-530-253-16	Sequence 16, Appl
19	37	78.7	8	US-10-530-061-847	Sequence 847, Appl
20	37	78.7	10	US-10-530-061-568	Sequence 568, Appl
21	37	78.7	10	US-10-530-061-792	Sequence 792, Appl

22	78.7	151	9	US-10-530-253-21	Sequence 21, Appl
23	76.6	9	9	US-10-530-061-43	Sequence 43, Appl
24	76.6	9	9	US-10-530-061-778	Sequence 778, Appl
25	76.6	10	9	US-10-530-061-479	Sequence 479, Appl
26	76.6	10	9	US-10-530-061-552	Sequence 552, Appl
27	76.6	10	9	US-10-530-061-580	Sequence 580, Appl
28	76.6	148	9	US-10-530-253-22	Sequence 22, Appl
29	76.6	149	9	US-10-530-253-17	Sequence 17, Appl
30	74.5	688	11	US-11-113-424-45	Sequence 45, Appl
31	74.5	688	11	US-11-113-424-48	Sequence 48, Appl
32	74.5	688	11	US-11-113-424-19	Sequence 19, Appl
33	74.5	688	11	US-11-113-424-9	Sequence 9, Appl
34	74.5	688	11	US-11-040-218-25	Sequence 25, Appl
35	74.5	688	11	US-11-040-218-27	Sequence 27, Appl
36	72.3	852	11	US-11-188-298-14739	Sequence 14739, A
37	70.2	9	9	US-10-530-061-817	Sequence 817, Appl
38	70.2	10	9	US-10-530-061-536	Sequence 536, Appl
39	70.2	325	9	US-10-873-528-141	Sequence 141, Appl
40	70.2	566	9	US-10-506-454-326	Sequence 326, Appl
41	70.2	590	11	US-11-079-463-6352	Sequence 6352, Appl
42	68.1	9	9	US-10-530-061-98	Sequence 98, Appl
43	68.1	9	9	US-10-530-061-831	Sequence 831, Appl
44	68.1	10	9	US-10-530-061-590	Sequence 590, Appl
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46	68.1	11	9	US-10-530-061-496	Sequence 496, Appl
47	68.1	15	9	US-10-530-061-1693	Sequence 1693, Appl
48	68.1	155	9	US-10-530-253-23	Sequence 23, Appl
49	68.1	158	9	US-10-530-253-19	Sequence 19, Appl
50	68.1	158	9	US-10-530-253-26	Sequence 26, Appl
51	68.1	638	11	US-11-054-281-114	Sequence 114, Appl
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53	68.1	757	11	US-11-045-004-1733	Sequence 1733, Appl
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55	66.0	13	11	US-11-129-741-151	Sequence 3084, Appl
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57	66.0	152	9	US-10-530-253-39	Sequence 12341, A
58	66.0	428	11	US-11-087-099-12341	Sequence 10753, A
59	66.0	457	11	US-11-098-666-10753	Sequence 6151, Appl
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62	66.0	832	11	US-11-221-470-63	Sequence 63, Appl
63	66.0	901	9	US-10-330-773-870	Sequence 870, Appl
64	66.0	905	9	US-10-330-773-873	Sequence 873, Appl
65	66.0	905	9	US-10-530-061-54	Sequence 54, Appl
66	63.8	10	9	US-10-530-061-579	Sequence 579, Appl
67	63.8	10	9	US-10-530-061-597	Sequence 597, Appl
68	63.8	10	9	US-10-530-061-597	Sequence 2551, Appl
69	63.8	121	11	US-11-072-512-2551	Sequence 24, Appl
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71	63.8	179	11	US-11-045-004-1488	Sequence 10240, A
72	63.8	222	11	US-11-079-463-10240	Sequence 4290, Appl
73	63.8	224	9	US-10-793-626-2290	Sequence 17853, A
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86	63.8	432	11	US-11-079-463-6923	Sequence 10147, A
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[illegible]

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243	27	57.4	235	11	US-11-079-463-10383	Sequence 10383, A	316	27	57.4	487	9	US-10-455-772-50	Sequence 50, Appl
244	27	57.4	243	9	US-10-455-772-38	Sequence 38, Appl	317	27	57.4	487	9	US-10-455-772-52	Sequence 52, Appl
245	27	57.4	247	9	US-10-455-772-20	Sequence 20, Appl	318	27	57.4	491	11	US-11-087-099-452	Sequence 25, Ap
246	27	57.4	249	9	US-10-527-500-25	Sequence 25, Appl	319	27	57.4	492	9	US-10-524-647-130	Sequence 130, Ap
247	27	57.4	249	11	US-11-045-004-1079	Sequence 1079, Ap	320	27	57.4	492	9	US-10-524-970-118	Sequence 118, Ap
248	27	57.4	284	9	US-10-878-556A-114	Sequence 144, Ap	321	27	57.4	493	9	US-10-455-772-26	Sequence 26, Appl
249	27	57.4	291	9	US-10-467-657-1290	Sequence 1290, Ap	322	27	57.4	499	11	US-11-072-512-731	Sequence 271, Ap
250	27	57.4	309	10	US-11-283-522-34	Sequence 34, Appl	323	27	57.4	514	11	US-11-172-740-442	Sequence 442, Ap
251	27	57.4	309	11	US-11-169-041-215	Sequence 215, Ap	324	27	57.4	514	11	US-11-172-740-443	Sequence 443, Ap
252	27	57.4	309	11	US-11-265-966-17	Sequence 17, Appl	325	27	57.4	524	11	US-11-069-642-13	Sequence 13, Appl
253	27	57.4	310	9	US-10-485-517-409	Sequence 409, Ap	326	27	57.4	545	11	US-11-188-248-22415	Sequence 22415, A
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256	27	57.4	329	11	US-11-188-298-22494	Sequence 22494, A	329	27	57.4	557	11	US-11-264-728-36	Sequence 36, Appl
257	27	57.4	330	11	US-11-096-568A-15945	Sequence 15945, A	330	27	57.4	578	11	US-11-188-228-2140	Sequence 2140, Ap
258	27	57.4	331	11	US-11-188-298-15199	Sequence 15199, A	331	27	57.4	582	11	US-11-096-568A-28656	Sequence 28656, A
259	27	57.4	341	11	US-11-096-568A-493	Sequence 2493, Ap	332	27	57.4	582	11	US-11-096-568A-30360	Sequence 30360, A
260	27	57.4	343	11	US-11-051-724-86	Sequence 86, Appl	333	27	57.4	584	11	US-11-087-099-5098	Sequence 5098, Ap
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262	27	57.4	352	9	US-10-627-633-6	Sequence 6, Appl	335	27	57.4	584	11	US-11-172-740-968	Sequence 968, Ap
263	27	57.4	360	11	US-11-096-568A-15944	Sequence 15944, A	336	27	57.4	584	11	US-11-172-740-969	Sequence 969, Ap
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265	27	57.4	365	11	US-11-096-568A-2491	Sequence 2491, Ap	338	27	57.4	591	11	US-11-079-463-9048	Sequence 366, Appl
266	27	57.4	392	9	US-10-194-487-160	Sequence 160, Ap	339	27	57.4	603	11	US-11-043-806-366	Sequence 7, Appl
267	27	57.4	392	9	US-10-195-883-160	Sequence 160, Ap	340	27	57.4	617	11	US-11-218-020-7	Sequence 11559, A
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269	27	57.4	392	9	US-10-195-889-160	Sequence 160, Ap	342	27	57.4	642	11	US-11-113-424-12	Sequence 12, Appl
270	27	57.4	392	11	US-11-084-458-2	Sequence 2, Appl	343	27	57.4	648	11	US-11-113-424-12	Sequence 46, Appl
271	27	57.4	394	9	US-10-793-626-58	Sequence 58, Appl	344	27	57.4	689	11	US-11-113-424-46	Sequence 47, Appl
272	27	57.4	394	9	US-10-455-772-750	Sequence 750, Ap	345	27	57.4	689	11	US-11-040-218-1	Sequence 1, Appl
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274	27	57.4	397	11	US-11-096-568A-3094	Sequence 3094, Ap	347	27	57.4	689	11	US-11-040-218-29	Sequence 29, Appl
275	27	57.4	409	9	US-11-096-568A-3095	Sequence 3095, Ap	348	27	57.4	689	11	US-11-040-218-31	Sequence 31, Appl
276	27	57.4	409	9	US-10-627-633-4	Sequence 4, Appl	349	27	57.4	689	11	US-11-040-218-33	Sequence 33, Appl
277	27	57.4	409	9	US-10-506-454-759	Sequence 759, Ap	350	27	57.4	689	11	US-11-040-218-33	Sequence 8, Appl
278	27	57.4	415	9	US-10-627-633-2	Sequence 2, Appl	351	27	57.4	696	11	US-11-029-003-8	Sequence 1532, Ap
279	27	57.4	415	11	US-11-166-028-1	Sequence 1, Appl	352	27	57.4	705	9	US-10-821-234-1532	Sequence 9056, Ap
280	27	57.4	416	11	US-11-079-463-6110	Sequence 6110, Ap	353	27	57.4	728	11	US-11-079-463-9058	Sequence 421, Ap
281	27	57.4	417	9	US-10-455-772-758	Sequence 758, Ap	354	27	57.4	731	11	US-11-024-959-421	Sequence 9713, Ap
282	27	57.4	418	9	US-10-455-772-748	Sequence 748, Ap	355	27	57.4	733	11	US-11-079-463-9713	Sequence 17849, A
283	27	57.4	418	9	US-10-455-772-756	Sequence 756, Ap	356	27	57.4	747	11	US-11-188-298-17849	Sequence 8036, Ap
284	27	57.4	418	11	US-11-045-004-2826	Sequence 2826, Ap	357	27	57.4	748	9	US-10-467-657-8036	Sequence 3453, Ap
285	27	57.4	426	11	US-11-087-099-9050	Sequence 9050, Ap	358	27	57.4	791	11	US-11-072-512-3453	Sequence 10456, A
286	27	57.4	426	11	US-11-188-298-10049	Sequence 10049, A	359	27	57.4	815	11	US-11-079-463-10436	Sequence 5913, Ap
287	27	57.4	427	9	US-10-455-772-40	Sequence 40, Appl	360	27	57.4	821	11	US-11-079-463-10436	Sequence 22164, A
288	27	57.4	427	11	US-11-188-298-332	Sequence 332, Ap	361	27	57.4	832	11	US-11-188-298-22164	Sequence 6, Appl
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297	27	57.4	456	9	US-10-455-772-30	Sequence 30, Appl	370	27	57.4	1645	11	US-11-043-806-364	Sequence 365, Ap
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302	27	57.4	461	9	US-10-455-772-752	Sequence 752, Ap	375	27	57.4	2430	9	US-10-995-561-825	Sequence 825, Ap
303	27	57.4	461	9	US-10-455-772-754	Sequence 754, Ap	376	27	57.4	2430	9	US-10-995-561-825	Sequence 41, Appl
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306	27	57.4	462	11	US-11-183-205-10	Sequence 10, Appl	379	27	57.4	3116	9	US-10-995-561-826	Sequence 77, Appl
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389	26	55.3	30	11	US-11-009-101A-4	Sequence 4, Appl1	462	26	55.3	275	9	US-10-821-234-1013	Sequence 1013, Ap
390	26	55.3	30	11	US-11-009-101A-5	Sequence 5, Appl1	463	26	55.3	275	11	US-11-098-886-11236	Sequence 11236, A
391	26	55.3	30	11	US-11-280-416-4	Sequence 4, Appl1	464	26	55.3	281	9	US-10-821-234-1080	Sequence 1080, Ap
392	26	55.3	31	11	US-11-009-101A-6	Sequence 6, Appl1	465	26	55.3	289	11	US-11-188-298-4913	Sequence 4913, Ap
393	26	55.3	36	9	US-10-982-727-6	Sequence 6, Appl1	466	26	55.3	292	11	US-11-079-463-7154	Sequence 7154, Ap
394	26	55.3	36	9	US-10-501-411A-9	Sequence 9, Appl1	467	26	55.3	295	11	US-11-182-480-14	Sequence 14, Appl
395	26	55.3	36	9	US-10-501-411A-10	Sequence 10, Appl1	468	26	55.3	295	11	US-11-182-480-15	Sequence 15, Appl
396	26	55.3	36	9	US-10-501-411A-21	Sequence 21, Appl	469	26	55.3	295	11	US-11-182-480-55	Sequence 55, Appl
397	26	55.3	36	9	US-10-501-411A-22	Sequence 22, Appl	470	26	55.3	295	11	US-11-182-480-56	Sequence 56, Appl
398	26	55.3	36	9	US-10-501-411A-23	Sequence 23, Appl	471	26	55.3	295	11	US-11-182-480-68	Sequence 68, Appl
399	26	55.3	6	9	US-10-501-411A-33	Sequence 33, Appl	472	26	55.3	295	11	US-11-182-408-14	Sequence 14, Appl
400	26	55.3	69	11	US-11-079-463-10209	Sequence 10209, A	473	26	55.3	295	11	US-11-182-408-15	Sequence 15, Appl
401	26	55.3	83	11	US-11-120-308-136	Sequence 136, App	474	26	55.3	295	11	US-11-182-408-55	Sequence 55, Appl
402	26	55.3	83	11	US-11-079-463-6648	Sequence 6648, Ap	475	26	55.3	295	11	US-11-182-408-56	Sequence 56, Appl
403	26	55.3	89	11	US-11-079-463-7212	Sequence 7212, Ap	476	26	55.3	295	11	US-11-182-408-60	Sequence 60, Appl
404	26	55.3	89	11	US-11-188-298-10948	Sequence 10948, A	477	26	55.3	297	11	US-11-182-408-6525	Sequence 4525, Ap
405	26	55.3	98	11	US-11-045-004-45	Sequence 45, Appl	478	26	55.3	306	11	US-11-079-463-7662	Sequence 7662, Ap
406	26	55.3	104	11	US-11-096-568A-6358	Sequence 6358, Ap	479	26	55.3	307	11	US-11-188-298-9365	Sequence 9365, Ap
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408	26	55.3	117	11	US-11-087-099-6250	Sequence 6250, Ap	481	26	55.3	313	11	US-11-130-821-7	Sequence 7, Appl1
409	26	55.3	126	11	US-11-096-568A-6357	Sequence 6357, Ap	482	26	55.3	317	11	US-11-182-480-60	Sequence 60, Appl
410	26	55.3	129	11	US-11-124-367A-342	Sequence 342, App	483	26	55.3	317	11	US-11-182-408-60	Sequence 60, Appl
411	26	55.3	132	11	US-11-124-367A-342	Sequence 342, App	484	26	55.3	318	11	US-11-112-882-32	Sequence 32, Appl
412	26	55.3	137	11	US-11-087-099-5071	Sequence 5071, Ap	485	26	55.3	318	11	US-11-146-428-54	Sequence 54, Appl
413	26	55.3	150	11	US-11-110-082-23	Sequence 23, Appl	486	26	55.3	322	11	US-11-225-354-22	Sequence 22, Appl
414	26	55.3	152	11	US-11-096-568A-1339	Sequence 1339, Ap	487	26	55.3	322	11	US-11-087-099-9525	Sequence 9525, Ap
415	26	55.3	156	11	US-11-087-099-2570	Sequence 2570, Ap	488	26	55.3	325	11	US-11-045-004-1804	Sequence 1804, Ap
416	26	55.3	157	11	US-11-022-478-20	Sequence 20, Appl	489	26	55.3	326	11	US-11-098-886-10755	Sequence 10755, A
417	26	55.3	160	11	US-11-096-568A-1338	Sequence 1338, Ap	490	26	55.3	327	9	US-10-821-234-1686	Sequence 1686, Ap
418	26	55.3	161	11	US-11-087-099-7179	Sequence 7179, Ap	491	26	55.3	335	11	US-11-182-480-2	Sequence 2, Appl1
419	26	55.3	162	11	US-11-087-099-5366	Sequence 5366, Ap	492	26	55.3	335	11	US-11-182-480-32	Sequence 32, Appl
420	26	55.3	163	11	US-11-110-082-21	Sequence 21, Appl	493	26	55.3	335	11	US-11-182-408-32	Sequence 32, Appl1
421	26	55.3	165	11	US-11-087-099-7545	Sequence 7545, Ap	494	26	55.3	335	11	US-11-182-408-32	Sequence 32, Appl
422	26	55.3	166	11	US-11-176-830-998	Sequence 998, App	495	26	55.3	336	9	US-10-506-454-1561	Sequence 1561, Ap
423	26	55.3	169	11	US-11-176-830-1001	Sequence 1001, Ap	496	26	55.3	336	11	US-11-182-480-34	Sequence 34, Appl1
424	26	55.3	173	11	US-11-087-099-2824	Sequence 2824, Ap	497	26	55.3	336	11	US-11-182-480-34	Sequence 34, Appl
425	26	55.3	173	11	US-11-087-099-2824	Sequence 2824, Ap	498	26	55.3	336	11	US-11-182-408-34	Sequence 34, Appl
426	26	55.3	173	11	US-11-087-099-9725	Sequence 9725, Ap	499	26	55.3	336	11	US-11-182-408-34	Sequence 34, Appl
427	26	55.3	174	11	US-11-087-099-8774	Sequence 8774, Ap	500	26	55.3	339	11	US-11-127-877-49	Sequence 49, Appl1
428	26	55.3	174	11	US-11-087-099-8184	Sequence 8184, Ap	501	26	55.3	339	11	US-11-174-816-3	Sequence 3, Appl1
429	26	55.3	176	11	US-11-087-099-1461	Sequence 1461, Ap	502	26	55.3	339	11	US-11-174-819-67	Sequence 67, Appl
430	26	55.3	176	11	US-11-087-099-2186	Sequence 2186, Ap	503	26	55.3	339	11	US-11-174-251-3	Sequence 3, Appl1
431	26	55.3	176	11	US-11-087-099-4227	Sequence 4227, Ap	504	26	55.3	339	11	US-11-174-251-46	Sequence 46, Appl
432	26	55.3	176	11	US-11-087-099-5990	Sequence 5990, Ap	505	26	55.3	339	11	US-11-087-099-5228	Sequence 5228, Ap
433	26	55.3	176	11	US-11-087-099-6304	Sequence 6304, Ap	506	26	55.3	339	11	US-11-217-710-6	Sequence 6, Appl1
434	26	55.3	176	11	US-11-087-099-6592	Sequence 6592, Ap	507	26	55.3	343	8	US-10-511-937-2511	Sequence 2511, Ap
435	26	55.3	176	11	US-11-087-099-7050	Sequence 7050, Ap	508	26	55.3	343	11	US-11-079-463-5951	Sequence 5951, Ap
436	26	55.3	181	11	US-11-087-099-11698	Sequence 11698, A	509	26	55.3	343	11	US-11-188-298-3612	Sequence 3612, Ap
437	26	55.3	181	11	US-11-188-298-15664	Sequence 15664, A	510	26	55.3	343	11	US-11-188-298-7466	Sequence 7466, Ap
438	26	55.3	191	11	US-11-217-710-2	Sequence 2, Appl1	511	26	55.3	346	11	US-11-087-099-806	Sequence 806, App
439	26	55.3	194	11	US-11-045-004-1620	Sequence 1620, Ap	512	26	55.3	346	11	US-11-087-099-2052	Sequence 2052, Ap
440	26	55.3	195	11	US-11-096-568A-1337	Sequence 1337, Ap	513	26	55.3	346	11	US-11-087-099-5198	Sequence 5198, Ap
441	26	55.3	196	11	US-11-264-096-1622	Sequence 1622, Ap	514	26	55.3	346	11	US-11-087-099-8797	Sequence 8797, Ap
442	26	55.3	197	11	US-11-188-298-3972	Sequence 3972, Ap	515	26	55.3	346	11	US-11-087-099-11942	Sequence 11942, A
443	26	55.3	197	11	US-11-188-298-22310	Sequence 22310, A	516	26	55.3	347	11	US-11-182-480-36	Sequence 36, Appl
444	26	55.3	206	11	US-11-045-004-974	Sequence 974, App	517	26	55.3	347	11	US-11-182-408-36	Sequence 36, Appl
445	26	55.3	213	11	US-11-045-004-153	Sequence 153, App	518	26	55.3	348	11	US-11-087-099-5590	Sequence 5590, Ap
446	26	55.3	217	11	US-11-087-099-6641	Sequence 6641, Ap	519	26	55.3	352	11	US-11-018-868-94	Sequence 94, Appl
447	26	55.3	218	11	US-11-188-298-12096	Sequence 12096, A	520	26	55.3	359	11	US-11-045-004-2522	Sequence 2522, Ap
448	26	55.3	223	11	US-11-087-099-5272	Sequence 5272, Ap	521	26	55.3	366	11	US-11-045-004-238	Sequence 238, App
449	26	55.3	226	11	US-11-087-099-9409	Sequence 9409, Ap	522	26	55.3	367	11	US-11-087-099-2342	Sequence 2342, Ap
450	26	55.3	235	9	US-10-506-454-944	Sequence 944, App	523	26	55.3	367	11	US-11-188-298-5733	Sequence 5733, Ap
451	26	55.3	236	9	US-10-927-641-72	Sequence 72, Appl	524	26	55.3	368	11	US-11-178-337-3	Sequence 3, Appl1
452	26	55.3	237	11	US-11-264-096-1316	Sequence 1316, Ap	525	26	55.3	369	11	US-11-050-046-32	Sequence 38, Appl
453	26	55.3	242	11	US-11-079-463-6641	Sequence 6641, Ap	526	26	55.3	370	11	US-11-045-004-1465	Sequence 1465, Ap
454	26	55.3	254	9	US-10-878-556A-177	Sequence 177, App	527	26	55.3	375	11	US-11-188-298-3197	Sequence 3197, Ap
455	26	55.3	257	9	US-10-527-500-67	Sequence 67, Appl	528	26	55.3	375	11	US-10-131-826A-216	Sequence 216, App
456	26	55.3	261	11	US-11-188-298-1179	Sequence 4179, Ap	529	26	55.3	379	9	US-10-973-115B-216	Sequence 216, App
457	26	55.3	264	11	US-11-087-099-3787	Sequence 3787, Ap	530	26	55.3	379	9	US-10-137-873A-216	Sequence 216, App
458	26	55.3	266	11	US-11-188-298-11850	Sequence 11850, A	531	26	55.3	379	9	US-10-137-873A-216	Sequence 216, App
459	26	55.3	267	9	US-10-627-952-20	Sequence 20, Appl	532	26	55.3	379	9	US-10-152-370-216	Sequence 216, App

533	26	55.3	379	11	US-11-290-153-216	Sequence 216, App	606	26	55.3	562	11	US-11-166-892-10	Sequence 10, Appl
534	26	55.3	380	11	US-11-087-039-3374	Sequence 8374, Ap	607	26	55.3	563	11	US-11-074-374-31	Sequence 31, Appl
535	26	55.3	380	11	US-11-210-139-17	Sequence 17, Appl	608	26	55.3	565	11	US-11-079-463-9148	Sequence 9148, Ap
536	26	55.3	385	11	US-11-188-238-19539	Sequence 19539, A	609	26	55.3	567	11	US-11-098-686-10380	Sequence 10380, A
537	26	55.3	386	11	US-11-079-463-6100	Sequence 6100, Ap	610	26	55.3	572	11	US-11-188-298-3042	Sequence 3042, Ap
538	26	55.3	388	11	US-11-188-298-5428	Sequence 5428, Ap	611	26	55.3	572	11	US-11-188-298-16551	Sequence 16551, A
539	26	55.3	390	11	US-11-052-5544-221	Sequence 221, App	612	26	55.3	577	11	US-11-096-568A-32056	Sequence 32056, A
540	26	55.3	391	9	US-10-485-310-2	Sequence 2, Appl	613	26	55.3	590	9	US-10-506-454-901	Sequence 901, App
541	26	55.3	394	11	US-11-264-036-639	Sequence 639, App	614	26	55.3	612	11	US-11-218-120-9	Sequence 9, Appl
542	26	55.3	395	11	US-11-188-298-9627	Sequence 9627, Ap	615	26	55.3	623	11	US-11-072-512-2547	Sequence 2547, Ap
543	26	55.3	398	11	US-11-096-568A-2519	Sequence 2519, Ap	616	26	55.3	624	11	US-11-124-168A-188	Sequence 18, App
544	26	55.3	398	11	US-11-188-298-20661	Sequence 20661, A	617	26	55.3	628	11	US-11-094-519A-28	Sequence 28, Appl
545	26	55.3	400	11	US-11-087-039-2943	Sequence 2943, Ap	618	26	55.3	630	11	US-11-079-463-1386	Sequence 786, Ap
546	26	55.3	400	9	US-10-950-747-1	Sequence 1, Appl	619	26	55.3	632	11	US-11-079-463-1095	Sequence 1095, Ap
547	26	55.3	406	9	US-10-950-747-3	Sequence 3, Appl	620	26	55.3	630	11	US-11-188-298-978	Sequence 978, App
548	26	55.3	406	9	US-10-822-943-1	Sequence 1, Appl	621	26	55.3	640	11	US-11-094-519A-44	Sequence 44, Appl
549	26	55.3	406	11	US-11-186-669-1	Sequence 1, Appl	622	26	55.3	641	11	US-11-227-340-8	Sequence 8, Appl
550	26	55.3	406	11	US-11-227-340-1	Sequence 1, Appl	623	26	55.3	643	11	US-11-054-281-113	Sequence 113, App
551	26	55.3	406	11	US-11-096-568A-32058	Sequence 32058, A	624	26	55.3	658	11	US-11-087-039-6627	Sequence 6627, App
552	26	55.3	410	9	US-10-513-759-14	Sequence 14, Appl	625	26	55.3	671	11	US-11-029-003-6	Sequence 6, Appl
553	26	55.3	414	11	US-11-096-568A-32963	Sequence 32963, A	626	26	55.3	671	11	US-11-227-340-11	Sequence 11, Appl
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555	26	55.3	429	11	US-11-074-176-248	Sequence 248, App	628	26	55.3	685	9	US-10-498-026-114	Sequence 114, App
556	26	55.3	429	11	US-11-188-298-21109	Sequence 21109, A	629	26	55.3	698	11	US-11-188-298-14057	Sequence 14057, A
557	26	55.3	430	11	US-11-237-600-2	Sequence 2, Appl	630	26	55.3	698	11	US-11-188-298-14057	Sequence 6, Appl
558	26	55.3	432	9	US-10-063-703-112	Sequence 112, Appl	631	26	55.3	701	11	US-10-469-469-339	Sequence 329, App
559	26	55.3	432	9	US-10-194-487-330	Sequence 330, App	632	26	55.3	709	9	US-10-131-826A-346	Sequence 346, App
560	26	55.3	432	9	US-10-195-883-330	Sequence 330, App	633	26	55.3	723	9	US-10-973-115B-346	Sequence 346, App
561	26	55.3	432	9	US-10-195-888-330	Sequence 330, App	634	26	55.3	723	9	US-10-137-872A-346	Sequence 346, App
562	26	55.3	432	9	US-10-195-889-330	Sequence 330, App	635	26	55.3	723	9	US-10-152-370-346	Sequence 346, App
563	26	55.3	432	11	US-11-102-240-112	Sequence 112, App	636	26	55.3	723	9	US-11-078-735-17	Sequence 17, Appl
564	26	55.3	432	11	US-11-103-195-112	Sequence 112, App	637	26	55.3	723	11	US-11-050-346-52	Sequence 62, Appl
565	26	55.3	433	11	US-11-092-168-6	Sequence 6, Appl	638	26	55.3	723	11	US-11-103-077-17	Sequence 17, Appl
566	26	55.3	433	11	US-11-098-686-10520	Sequence 10520, A	639	26	55.3	723	11	US-11-230-153-346	Sequence 346, App
567	26	55.3	434	9	US-10-506-454-1264	Sequence 1264, Ap	640	26	55.3	723	11	US-11-058-066-17	Sequence 17, Appl
568	26	55.3	434	11	US-11-079-463-8226	Sequence 8226, Ap	641	26	55.3	723	11	US-11-188-298-8443	Sequence 8443, Ap
569	26	55.3	437	11	US-11-183-914-6	Sequence 6, Appl	642	26	55.3	725	11	US-11-188-298-8040	Sequence 8040, Ap
570	26	55.3	437	11	US-11-087-039-3433	Sequence 3433, Ap	643	26	55.3	741	11	US-11-188-298-5540	Sequence 5540, Ap
571	26	55.3	437	11	US-11-087-039-12415	Sequence 12415, A	644	26	55.3	741	11	US-11-188-298-14148	Sequence 14148, A
572	26	55.3	438	11	US-11-087-039-10344	Sequence 10344, A	645	26	55.3	749	11	US-11-188-298-11831	Sequence 11831, A
573	26	55.3	442	11	US-11-079-463-5786	Sequence 5786, Ap	646	26	55.3	759	11	US-11-045-004-102	Sequence 102, App
574	26	55.3	444	8	US-10-511-937-2962	Sequence 2962, Ap	647	26	55.3	780	11	US-11-045-004-1705	Sequence 1705, Ap
575	26	55.3	444	8	US-10-511-937-3014	Sequence 3014, Ap	648	26	55.3	798	11	US-10-467-657-6470	Sequence 6470, Ap
576	26	55.3	444	10	US-11-183-218-8	Sequence 8, Appl	649	26	55.3	801	9	US-11-096-568A-28862	Sequence 28862, A
577	26	55.3	444	11	US-11-183-205-8	Sequence 8, Appl	650	26	55.3	816	11	US-11-096-568A-28861	Sequence 28861, A
578	26	55.3	444	11	US-11-188-298-5133	Sequence 5133, Ap	651	26	55.3	823	11	US-11-221-470-61	Sequence 61, Appl
579	26	55.3	446	11	US-11-075-185-18	Sequence 18, Appl	652	26	55.3	832	11	US-11-221-470-64	Sequence 64, Appl
580	26	55.3	446	11	US-11-188-298-8465	Sequence 8465, Ap	653	26	55.3	832	11	US-11-045-004-41	Sequence 41, Appl
581	26	55.3	450	11	US-11-096-568A-32962	Sequence 32962, A	654	26	55.3	832	11	US-11-096-568A-28530	Sequence 28530, A
582	26	55.3	453	11	US-11-096-568A-2518	Sequence 2518, Ap	655	26	55.3	834	9	US-11-096-568A-28530	Sequence 3797, Ap
583	26	55.3	453	11	US-11-096-568A-32961	Sequence 32961, A	656	26	55.3	837	11	US-11-188-298-3797	Sequence 3797, Ap
584	26	55.3	457	11	US-11-246-793-2	Sequence 2, Appl	657	26	55.3	838	11	US-11-221-470-53	Sequence 53, Appl
585	26	55.3	457	11	US-11-246-793-48	Sequence 48, Appl	658	26	55.3	843	11	US-11-221-470-54	Sequence 54, Appl
586	26	55.3	457	11	US-11-246-793-50	Sequence 50, Appl	659	26	55.3	843	11	US-11-221-470-55	Sequence 55, Appl
587	26	55.3	459	9	US-10-703-799B-234	Sequence 234, Appl	660	26	55.3	843	11	US-11-221-470-55	Sequence 55, Appl
588	26	55.3	472	11	US-11-188-298-21014	Sequence 21014, A	661	26	55.3	843	11	US-11-221-470-55	Sequence 55, Appl
589	26	55.3	472	11	US-11-200-296B-41	Sequence 41, Appl	662	26	55.3	844	11	US-11-096-568A-28539	Sequence 28529, A
590	26	55.3	473	11	US-11-222-138A-20	Sequence 20, Appl	663	26	55.3	844	11	US-11-096-568A-28102	Sequence 28102, A
591	26	55.3	473	11	US-11-188-298-4416	Sequence 4416, Ap	664	26	55.3	856	11	US-11-079-463-5544	Sequence 5544, Ap
592	26	55.3	473	11	US-11-188-298-21230	Sequence 21230, A	665	26	55.3	857	11	US-11-096-568A-28101	Sequence 28101, A
593	26	55.3	478	11	US-11-079-463-7117	Sequence 7117, Ap	666	26	55.3	864	11	US-11-050-346-10	Sequence 10, Appl
594	26	55.3	480	11	US-11-045-004-847	Sequence 847, App	667	26	55.3	864	11	US-11-103-077-28100	Sequence 28100, A
595	26	55.3	484	11	US-11-078-735-43	Sequence 43, Appl	668	26	55.3	864	11	US-11-096-568A-28860	Sequence 28860, A
596	26	55.3	484	11	US-11-050-346-37	Sequence 37, Appl	669	26	55.3	891	11	US-11-096-568A-28528	Sequence 28528, A
597	26	55.3	486	11	US-11-079-463-8310	Sequence 8310, Ap	670	26	55.3	912	11	US-11-045-004-1387	Sequence 1387, Ap
598	26	55.3	487	11	US-11-096-568A-2517	Sequence 2517, Ap	671	26	55.3	921	11	US-11-079-463-6249	Sequence 6249, Ap
599	26	55.3	499	11	US-11-096-568A-19171	Sequence 19171, A	672	26	55.3	925	11	US-11-124-367A-430	Sequence 430, App
600	26	55.3	500	11	US-11-120-308-138	Sequence 138, App	673	26	55.3	940	11	US-11-188-298-4460	Sequence 4460, Ap
601	26	55.3	503	9	US-10-467-657-6606	Sequence 6606, Ap	674	26	55.3	962	11	US-11-188-298-4425	Sequence 4425, Ap
602	26	55.3	508	11	US-11-188-298-4431	Sequence 21440, A	675	26	55.3	971	11	US-11-177-894-17	Sequence 17, Appl
603	26	55.3	521	11	US-11-188-298-23440	Sequence 32057, A	676	26	55.3	972	11	US-11-177-894-17	Sequence 2423, Ap
604	26	55.3	531	11	US-11-096-568A-32057	Sequence 61, Appl	677	26	55.3	976	8	US-10-511-937-2423	Sequence 2423, Ap
605	26	55.3	553	11	US-11-103-957-61	Sequence 61, Appl	678	26	55.3	976	8	US-10-511-937-2423	Sequence 2423, Ap

679	26	55.3	976	11	US-11-148-770-31	Sequence 31, Appl	752	25	53.2	152	11	US-11-096-568A-10167	Sequence 10167, A
680	26	55.3	976	11	US-11-177-894-15	Sequence 15, Appl	753	25	53.2	158	11	US-11-055-822-1024	Sequence 1024, Ap
681	26	55.3	976	11	US-11-177-894-16	Sequence 16, Appl	754	25	53.2	159	11	US-11-096-568A-6126	Sequence 6126, Ap
682	26	55.3	976	11	US-11-177-894-18	Sequence 18, Appl	755	25	53.2	161	11	US-11-096-568A-25488	Sequence 25488, A
683	26	55.3	976	11	US-11-177-894-19	Sequence 19, Appl	756	25	53.2	162	9	US-10-793-626-2266	Sequence 2266, Ap
684	26	55.3	976	11	US-11-177-894-20	Sequence 20, Appl	757	25	53.2	165	11	US-11-176-830-63	Sequence 63, Appl
685	26	55.3	976	11	US-11-177-894-21	Sequence 21, Appl	758	25	53.2	165	11	US-11-196-067-63	Sequence 63, Appl
686	26	55.3	976	11	US-11-154-287-1	Sequence 1, Appl	759	25	53.2	165	11	US-11-079-466-7294	Sequence 7294, Ap
687	26	55.3	976	11	US-11-154-287-1	Sequence 1, Appl	760	25	53.2	166	11	US-11-176-830-999	Sequence 999, App
688	26	55.3	976	11	US-11-154-287-1	Sequence 1, Appl	761	25	53.2	166	11	US-11-176-830-1008	Sequence 1008, App
689	26	55.3	1068	11	US-11-124-368A-189	Sequence 189, App	762	25	53.2	175	11	US-11-188-298-14383	Sequence 14383, A
690	26	55.3	1229	11	US-11-123-363-3	Sequence 3, Appl1	763	25	53.2	176	11	US-11-045-004-330	Sequence 330, App
691	26	55.3	1290	11	US-11-096-568A-28044	Sequence 28044, A	764	25	53.2	188	11	US-11-045-004-296	Sequence 296, App
692	26	55.3	1294	11	US-11-096-568A-28043	Sequence 28043, A	765	25	53.2	193	11	US-11-096-568A-30119	Sequence 30119, A
693	26	55.3	1327	11	US-11-096-568A-28042	Sequence 28042, A	766	25	53.2	195	11	US-11-096-568A-25487	Sequence 25487, A
694	26	55.3	1373	11	US-11-096-686-11150	Sequence 11150, A	767	25	53.2	198	9	US-10-469-469-99	Sequence 99, Appl
695	26	55.3	1565	11	US-11-188-298-20451	Sequence 20451, A	768	25	53.2	198	9	US-11-096-568A-23873	Sequence 23873, A
696	26	55.3	1664	11	US-11-188-298-13722	Sequence 13722, A	769	25	53.2	199	9	US-10-793-626-2356	Sequence 2356, Ap
697	26	55.3	1806	11	US-11-188-298-4299	Sequence 4299, Ap	770	25	53.2	200	11	US-11-045-004-2238	Sequence 2238, Ap
698	26	55.3	2376	11	US-11-154-293-8	Sequence 27513, A	771	25	53.2	202	11	US-11-188-298-10344	Sequence 10344, A
699	26	55.3	2414	11	US-11-154-293-8	Sequence 8, Appl	772	25	53.2	204	11	US-11-188-298-21313	Sequence 21313, A
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701	26	55.3	2518	11	US-11-154-293-4	Sequence 4, Appl1	774	25	53.2	206	11	US-11-188-298-1850	Sequence 1850, Ap
702	26	55.3	2535	11	US-11-096-568A-27512	Sequence 27512, A	775	25	53.2	207	11	US-11-188-298-16574	Sequence 16574, A
703	26	55.3	4495	9	US-11-096-568A-27511	Sequence 27511, A	776	25	53.2	208	11	US-11-088-686-41	Sequence 41, Appl
704	26	55.3	4935	11	US-10-453-372-1002	Sequence 1002, Ap	777	25	53.2	209	11	US-11-079-466-5312	Sequence 5312, Ap
705	26	55.3	5346	11	US-11-065-695-20	Sequence 20, Appl	778	25	53.2	217	11	US-11-098-686-11334	Sequence 11334, A
706	26	55.3	8746	11	US-11-098-686-10232	Sequence 10232, A	779	25	53.2	218	9	US-10-714-887-158	Sequence 158, App
707	25.5	54.3	379	11	US-11-079-463-6269	Sequence 6269, A	780	25	53.2	219	11	US-11-188-298-2753	Sequence 2753, Ap
708	25.5	54.3	717	11	US-11-188-298-20495	Sequence 20495, A	781	25	53.2	220	11	US-11-045-004-813	Sequence 813, App
709	25	53.2	9	9	US-10-530-061-639	Sequence 639, App	782	25	53.2	223	11	US-11-087-099-7197	Sequence 7197, Ap
710	25	53.2	10	9	US-10-530-061-640	Sequence 61, Appl	783	25	53.2	223	11	US-11-096-568A-12483	Sequence 12483, A
711	25	53.2	10	9	US-10-530-061-61	Sequence 61, Appl	784	25	53.2	226	11	US-11-096-568A-25394	Sequence 25394, A
712	25	53.2	10	9	US-10-530-061-475	Sequence 475, App	785	25	53.2	226	11	US-11-096-568A-23782	Sequence 23782, A
713	25	53.2	10	9	US-10-530-061-506	Sequence 506, App	786	25	53.2	227	11	US-11-096-568A-10610	Sequence 10610, A
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ALIGNMENTS

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; Publication No. US20060079453A1
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; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.033US02/EKS/W-M
; CURRENT APPLICATION NUMBER: US/10/530,061
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US-10-530-061-504

Query Match 100.0%; Score 47; DB 9; Length 10;
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; GENERAL INFORMATION:
; APPLICANT: Casasetti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100A137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
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; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Casasetti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100A137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 13
; LENGTH: 151
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-10-530-253-13
```

```
Query Match 100.0%; Score 47; DB 9; Length 151;
Best Local Similarity 100.0%; Pred. No. 0.055;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
OY 1 KFYSKISEY 9
|||||
Db 68 KFYSKISEY 76

RESULT 4
US-11-206-138-3
; Sequence 3, Application US/11206138
; Publication No. US20060039919A1
; GENERAL INFORMATION:
; APPLICANT: HealthBanks Biotech CO. LTD.
; TITLE OF INVENTION: Fusion protein for inhibiting cervical cancer
; FILE REFERENCE: P7819/0613
```

/ CURRENT APPLICATION NUMBER: US/11/206,138
/ CURRENT FILING DATE: 2005-08-18
/ NUMBER OF SEQ ID NOS: 14
/ SOFTWARE: PatentIn version 3.3
/ SEQ ID NO 3
/ LENGTH: 158
/ TYPE: PRT
/ ORGANISM: Human papillomavirus type 16
US-11-206-138-3

Query Match 100.0%; Score 47; DB 11; Length 158;
Best Local Similarity 100.0%; Pred. No. 0.057; Indels 0; Gaps 0;
Matches 9; Conservative 0; Mismatches 0;

QY 1 KFYSKIKEY 9
DB 75 KFYSKIKEY 83

RESULT 5
US-10-530-253-1
/ Sequence 1, Application US/10530253
/ Publication No. US20060014926A1
/ GENERAL INFORMATION:
/ APPLICANT: Cassetti, Maria C.
/ APPLICANT: Smith, Larry
/ APPLICANT: Jeffrey K. Pullen
/ TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
/ FILE REFERENCE: 00630/100M137-US2
/ CURRENT APPLICATION NUMBER: US/10/530,253
/ PRIOR FILING DATE: 2005-04-04
/ PRIOR APPLICATION NUMBER: PCT/US2003/031726
/ PRIOR FILING DATE: 2003-10-02
/ PRIOR APPLICATION NUMBER: US 60/415,929
/ PRIOR FILING DATE: 2002-10-03
/ NUMBER OF SEQ ID NOS: 65
/ SOFTWARE: PatentIn version 3.1
/ SEQ ID NO 1
/ LENGTH: 248
/ TYPE: PRT
/ ORGANISM: Human papillomavirus type 16
US-10-530-253-1

Query Match 100.0%; Score 47; DB 9; Length 248;
Best Local Similarity 100.0%; Pred. No. 0.091; Indels 0; Gaps 0;
Matches 9; Conservative 0; Mismatches 0;

QY 1 KFYSKIKEY 9
DB 68 KFYSKIKEY 76

RESULT 6
US-10-530-253-3
/ Sequence 3, Application US/10530253
/ Publication No. US20060014926A1
/ GENERAL INFORMATION:
/ APPLICANT: Cassetti, Maria C.
/ APPLICANT: Smith, Larry
/ APPLICANT: Jeffrey K. Pullen
/ APPLICANT: Susan P. McElhinney
/ TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
/ FILE REFERENCE: 00630/100M137-US2
/ CURRENT APPLICATION NUMBER: US/10/530,253
/ PRIOR FILING DATE: 2005-04-04
/ PRIOR APPLICATION NUMBER: PCT/US2003/031726
/ PRIOR FILING DATE: 2003-10-02
/ PRIOR APPLICATION NUMBER: US 60/415,929
/ PRIOR FILING DATE: 2002-10-03
/ NUMBER OF SEQ ID NOS: 65
/ SOFTWARE: PatentIn version 3.1
/ SEQ ID NO 3

/ LENGTH: 248
/ TYPE: PRT
/ ORGANISM: Human papillomavirus type 16
US-10-530-253-3

Query Match 100.0%; Score 47; DB 9; Length 248;
Best Local Similarity 100.0%; Pred. No. 0.091; Indels 0; Gaps 0;
Matches 9; Conservative 0; Mismatches 0;

QY 1 KFYSKIKEY 9
DB 68 KFYSKIKEY 76

RESULT 7
US-10-530-253-5
/ Sequence 5, Application US/10530253
/ Publication No. US20060014926A1
/ GENERAL INFORMATION:
/ APPLICANT: Cassetti, Maria C.
/ APPLICANT: Smith, Larry
/ APPLICANT: Jeffrey K. Pullen
/ APPLICANT: Susan P. McElhinney
/ TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
/ FILE REFERENCE: 00630/100M137-US2
/ CURRENT APPLICATION NUMBER: US/10/530,253
/ PRIOR FILING DATE: 2005-04-04
/ PRIOR APPLICATION NUMBER: PCT/US2003/031726
/ PRIOR FILING DATE: 2003-10-02
/ PRIOR APPLICATION NUMBER: US 60/415,929
/ PRIOR FILING DATE: 2002-10-03
/ NUMBER OF SEQ ID NOS: 65
/ SOFTWARE: PatentIn version 3.1
/ SEQ ID NO 5
/ LENGTH: 248
/ TYPE: PRT
/ ORGANISM: Human papillomavirus type 16
US-10-530-253-5

Query Match 100.0%; Score 47; DB 9; Length 248;
Best Local Similarity 100.0%; Pred. No. 0.091; Indels 0; Gaps 0;
Matches 9; Conservative 0; Mismatches 0;

QY 1 KFYSKIKEY 9
DB 68 KFYSKIKEY 76

RESULT 8
US-10-530-253-7
/ Sequence 7, Application US/10530253
/ Publication No. US20060014926A1
/ GENERAL INFORMATION:
/ APPLICANT: Cassetti, Maria C.
/ APPLICANT: Smith, Larry
/ APPLICANT: Jeffrey K. Pullen
/ APPLICANT: Susan P. McElhinney
/ TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
/ FILE REFERENCE: 00630/100M137-US2
/ CURRENT APPLICATION NUMBER: US/10/530,253
/ PRIOR FILING DATE: 2005-04-04
/ PRIOR APPLICATION NUMBER: PCT/US2003/031726
/ PRIOR FILING DATE: 2003-10-02
/ PRIOR APPLICATION NUMBER: US 60/415,929
/ PRIOR FILING DATE: 2002-10-03
/ NUMBER OF SEQ ID NOS: 65
/ SOFTWARE: PatentIn version 3.1
/ SEQ ID NO 7
/ LENGTH: 248
/ TYPE: PRT
/ ORGANISM: Human papillomavirus type 16
US-10-530-253-7

Query Match 100.0%; Score 47; DB 9; Length 248;
Best Local Similarity 100.0%; Pred. No. 0.091;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KFYSKISEY 9
|:|||||
Db 165 KFYSKISEY 173

RESULT 9
US-10-530-253-9
; Sequence 9, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Cassecci, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 9
; LENGTH: 248
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-10-530-253-9

Query Match 100.0%; Score 47; DB 9; Length 248;
Best Local Similarity 100.0%; Pred. No. 0.091;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KFYSKISEY 9
|:|||||
Db 165 KFYSKISEY 173

RESULT 10
US-10-530-253-11
; Sequence 11, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Cassecci, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 11
; LENGTH: 248
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-10-530-253-11

Query Match 100.0%; Score 47; DB 9; Length 248;
Best Local Similarity 100.0%; Pred. No. 0.091;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KFYSKISEY 9

Db 165 KFYSKISEY 173

RESULT 11
US-11-192-923A-2
; Sequence 2, Application US/11192923A
; Publication No. US20060018928A1
; GENERAL INFORMATION:
; APPLICANT: PANG, XIAOWU
; TITLE OF INVENTION: VIRUS-LIKE PARTICLES CONTAINING A DENGUE VIRUS
; FILE REFERENCE: 116620-003
; CURRENT APPLICATION NUMBER: US/11/192,923A
; CURRENT FILING DATE: 2005-07-29
; PRIOR APPLICATION NUMBER: CN 03115272.4
; PRIOR FILING DATE: 2003-01-30
; PRIOR APPLICATION NUMBER: CN 03115273.2
; PRIOR FILING DATE: 2003-01-30
; NUMBER OF SEQ ID NOS: 45
; SOFTWARE: PatentIn Ver. 3.3
; SEQ ID NO 2
; LENGTH: 256
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-11-192-923A-2

Query Match 100.0%; Score 47; DB 11; Length 256;
Best Local Similarity 100.0%; Pred. No. 0.094;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KFYSKISEY 9
|:|||||
Db 173 KFYSKISEY 181

RESULT 12
US-10-530-061-78
; Sequence 78, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.033US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 78
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-78

Query Match 93.6%; Score 44; DB 9; Length 9;
Best Local Similarity 88.9%; Pred. No. 1.9e+05;
Matches 8; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KFYSKISEY 9
|:|||||
Db 1 KFYSKISEY 9

RESULT 13
US-10-530-061-802

```
/ Sequence 802, Application US/10530061
/ Publication No. US20060079453A1
/ GENERAL INFORMATION:
/ APPLICANT: SIDNEY, JOHN
/ APPLICANT: SOUTHWOOD, SCOTT
/ TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
/ FILE REFERENCE: 2060.03US02/EKS/M-M
/ CURRENT APPLICATION NUMBER: US/10/530,061
/ PRIOR FILING DATE: 2005-04-04
/ PRIOR APPLICATION NUMBER: PCT/US03/31308
/ PRIOR FILING DATE: 2003-10-03
/ PRIOR APPLICATION NUMBER: 60/416,207
/ PRIOR FILING DATE: 2002-10-03
/ PRIOR APPLICATION NUMBER: 60/417,269
/ PRIOR FILING DATE: 2002-10-08
/ NUMBER OF SEQ ID NOS: 2503
/ SOFTWARE: PatentIn version 3.3
/ SEQ ID NO 802
/ LENGTH: 9
/ TYPE: PRT
/ ORGANISM: Human papillomavirus
US-10-530-061-802

Query Match
Best Local Similarity 93.6%; Score 44; DB 9; Length 9;
Matches 8; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 KFYSKISETY 9
DB 1 KFYSKISETY 9

RESULT 14
US-10-530-061-79
/ Sequence 79, Application US/10530061
/ Publication No. US20060079453A1
/ GENERAL INFORMATION:
/ APPLICANT: SIDNEY, JOHN
/ APPLICANT: SOUTHWOOD, SCOTT
/ TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
/ FILE REFERENCE: 2060.03US02/EKS/M-M
/ CURRENT APPLICATION NUMBER: US/10/530,061
/ PRIOR FILING DATE: 2005-04-04
/ PRIOR APPLICATION NUMBER: PCT/US03/31308
/ PRIOR FILING DATE: 2003-10-03
/ PRIOR APPLICATION NUMBER: 60/416,207
/ PRIOR FILING DATE: 2002-10-03
/ PRIOR APPLICATION NUMBER: 60/417,269
/ PRIOR FILING DATE: 2002-10-08
/ NUMBER OF SEQ ID NOS: 2503
/ SOFTWARE: PatentIn version 3.3
/ SEQ ID NO 79
/ LENGTH: 9
/ TYPE: PRT
/ ORGANISM: Human papillomavirus
US-10-530-061-79

Query Match
Best Local Similarity 91.5%; Score 43; DB 9; Length 9;
Matches 8; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 KFYSKISETY 9
DB 1 KFYSKISETY 9

RESULT 15
US-10-530-061-803
/ Sequence 803, Application US/10530061
/ Publication No. US20060079453A1
/ GENERAL INFORMATION:
```

```
/ APPLICANT: SIDNEY, JOHN
/ APPLICANT: SOUTHWOOD, SCOTT
/ TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
/ FILE REFERENCE: 2060.03US02/EKS/M-M
/ CURRENT APPLICATION NUMBER: US/10/530,061
/ PRIOR FILING DATE: 2005-04-04
/ PRIOR APPLICATION NUMBER: PCT/US03/31308
/ PRIOR FILING DATE: 2003-10-03
/ PRIOR APPLICATION NUMBER: 60/416,207
/ PRIOR FILING DATE: 2002-10-03
/ PRIOR APPLICATION NUMBER: 60/417,269
/ PRIOR FILING DATE: 2002-10-08
/ NUMBER OF SEQ ID NOS: 2503
/ SOFTWARE: PatentIn version 3.3
/ SEQ ID NO 803
/ LENGTH: 9
/ TYPE: PRT
/ ORGANISM: Human papillomavirus
US-10-530-061-803

Query Match
Best Local Similarity 91.5%; Score 43; DB 9; Length 9;
Matches 8; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 KFYSKISETY 9
DB 1 KFYSKISETY 9

RESULT 16
US-10-530-061-503
/ Sequence 503, Application US/10530061
/ Publication No. US20060079453A1
/ GENERAL INFORMATION:
/ APPLICANT: SIDNEY, JOHN
/ APPLICANT: SOUTHWOOD, SCOTT
/ TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
/ FILE REFERENCE: 2060.03US02/EKS/M-M
/ CURRENT APPLICATION NUMBER: US/10/530,061
/ PRIOR FILING DATE: 2005-04-04
/ PRIOR APPLICATION NUMBER: PCT/US03/31308
/ PRIOR FILING DATE: 2003-10-03
/ PRIOR APPLICATION NUMBER: 60/416,207
/ PRIOR FILING DATE: 2002-10-03
/ PRIOR APPLICATION NUMBER: 60/417,269
/ PRIOR FILING DATE: 2002-10-08
/ NUMBER OF SEQ ID NOS: 2503
/ SOFTWARE: PatentIn version 3.3
/ SEQ ID NO 503
/ LENGTH: 10
/ TYPE: PRT
/ ORGANISM: Human papillomavirus
US-10-530-061-503

Query Match
Best Local Similarity 87.2%; Score 41; DB 9; Length 10;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 KFYSKISETY 9
DB 1 KFYSKISETY 9

RESULT 17
US-10-530-061-537
/ Sequence 537, Application US/10530061
/ Publication No. US20060079453A1
/ GENERAL INFORMATION:
/ APPLICANT: SIDNEY, JOHN
/ APPLICANT: SOUTHWOOD, SCOTT
/ APPLICANT: SETTE, ALESSANDRO
```

```

; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.033US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; PRIOR FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO: 537
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-537
```

```

Query Match      83.0%; Score 39; DB 9; Length 10;
Best Local Similarity 66.7%; Pred. No. 0.12;
Matches 6; Conservative 3; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy      1 FYSKISEY 9
       :|||||:
Db      1 RFYSKVSEF 9
```

```

RESULT 18
US-10-530-253-16
; Sequence 16, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Cassecci, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO: 16
; LENGTH: 149
; TYPE: PRT
; ORGANISM: Human papillomavirus type 31
US-10-530-253-16
```

```

Query Match      83.0%; Score 39; DB 9; Length 149;
Best Local Similarity 66.7%; Pred. No. 1.9;
Matches 6; Conservative 3; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy      1 FYSKISEY 9
       :|||||:
Db      68 RFYSKVSEF 76
```

```

RESULT 19
US-10-530-061-847
; Sequence 847, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.033US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; CURRENT FILING DATE: 2005-04-04
```

```

; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO: 847
; LENGTH: 8
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-847
```

```

Query Match      78.7%; Score 37; DB 9; Length 8;
Best Local Similarity 75.0%; Pred. No. 1.9e+05;
Matches 6; Conservative 2; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy      2 FYSKISEY 9
       :|||||:
Db      1 FYSKVSEF 8
```

```

RESULT 20
US-10-530-061-68
; Sequence 68, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.033US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO: 68
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-68
```

```

Query Match      78.7%; Score 37; DB 9; Length 10;
Best Local Similarity 75.0%; Pred. No. 0.28;
Matches 6; Conservative 2; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy      2 FYSKISEY 9
       :|||||:
Db      1 FYSKVSEF 8
```

```

RESULT 21
US-10-530-061-792
; Sequence 792, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.033US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
```

```

; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 792
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-792

```

```

Query Match      78.7%; Score 37; DB 9; Length 10;
Best Local Similarity 75.0%; Pred. No. 0.28;
Matches 6; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

```

```

QY      2 FYSKISEY 9
DB      1 FYSKISEY 8

```

```

RESULT 22
US-10-530-253-21
; Sequence 21, Application US/10530253
; Publication No. US2006004926A1
; GENERAL INFORMATION:
; APPLICANT: Cassecci, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M37-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; PRIOR FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 21
; LENGTH: 151
; TYPE: PRT
; ORGANISM: Human papillomavirus type 51
US-10-530-253-21

```

```

Query Match      78.7%; Score 37; DB 9; Length 151;
Best Local Similarity 87.5%; Pred. No. 4.7;
Matches 7; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

```

```

QY      2 FYSKISEY 9
DB      69 FYSKISEY 76

```

```

RESULT 23
US-10-530-061-43
; Sequence 43, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.033US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; PRIOR FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503

```

```

; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 43
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-43

```

```

Query Match      76.6%; Score 36; DB 9; Length 9;
Best Local Similarity 77.8%; Pred. No. 1.9e+05;
Matches 7; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

```

```

QY      1 KFYKISEY 9
DB      1 RFLSKISEY 9

```

```

RESULT 24
US-10-530-061-778
; Sequence 778, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.033US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; PRIOR FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 778
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-778

```

```

Query Match      76.6%; Score 36; DB 9; Length 9;
Best Local Similarity 77.8%; Pred. No. 1.9e+05;
Matches 7; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

```

```

QY      1 KFYKISEY 9
DB      1 RFLSKISEY 9

```

```

RESULT 25
US-10-530-061-479
; Sequence 479, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.033US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; PRIOR FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 479
; LENGTH: 10

```

TYPE: PRT
ORGANISM: Human papillomavirus
US-10-530-061-479

Query Match 76.6%; Score 36; DB 9; Length 10;
Best Local Similarity 77.8%; Pred. No. 0.44;
Matches 7; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 KEYSKISRY 9
: |||||
Db 1 RFLSKISRY 9

RESULT 26
US-10-530-061-552
Sequence 552, Application US/10530061
Publication No. US20060079453A1
GENERAL INFORMATION:
APPLICANT: SOUTHWOOD, JOHN
APPLICANT: SETTE, ALSSANDRO
TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
FILE REFERENCE: 2060.033US02/EKS/M-M
CURRENT APPLICATION NUMBER: US/10/530,061
CURRENT FILING DATE: 2005-04-04
PRIOR APPLICATION NUMBER: PCT/US03/31308
PRIOR FILING DATE: 2003-10-03
PRIOR APPLICATION NUMBER: 60/416,207
PRIOR FILING DATE: 2002-10-03
PRIOR APPLICATION NUMBER: 60/417,269
PRIOR FILING DATE: 2002-10-08
NUMBER OF SEQ ID NOS: 2503
SOFTWARE: PatentIn version 3.3
SEQ ID NO 552
LENGTH: 10
TYPE: PRT
ORGANISM: Human papillomavirus
US-10-530-061-552

Query Match 76.6%; Score 36; DB 9; Length 10;
Best Local Similarity 77.8%; Pred. No. 0.44;
Matches 7; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 KEYSKISRY 9
: |||||
Db 1 RFLSKISRY 9

RESULT 27
US-10-530-061-560
Sequence 580, Application US/10530061
Publication No. US20060079453A1
GENERAL INFORMATION:
APPLICANT: SOUTHWOOD, JOHN
APPLICANT: SETTE, ALSSANDRO
TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
FILE REFERENCE: 2060.033US02/EKS/M-M
CURRENT APPLICATION NUMBER: US/10/530,061
CURRENT FILING DATE: 2005-04-04
PRIOR APPLICATION NUMBER: PCT/US03/31308
PRIOR FILING DATE: 2003-10-03
PRIOR APPLICATION NUMBER: 60/416,207
PRIOR FILING DATE: 2002-10-03
PRIOR APPLICATION NUMBER: 60/417,269
PRIOR FILING DATE: 2002-10-08
NUMBER OF SEQ ID NOS: 2503
SOFTWARE: PatentIn version 3.3
SEQ ID NO 560
LENGTH: 10
TYPE: PRT
ORGANISM: Human papillomavirus
US-10-530-061-560

Query Match 76.6%; Score 36; DB 9; Length 10;
Best Local Similarity 77.8%; Pred. No. 0.44;
Matches 7; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 KEYSKISRY 9
: |||||
Db 1 RFLSKISRY 9

RESULT 28
US-10-530-253-22
Sequence 22, Application US/10530253
Publication No. US20060014926A1
GENERAL INFORMATION:
APPLICANT: Casasetti, Maria C.
APPLICANT: Smith, Larry
APPLICANT: Jeffrey K. Pullen
APPLICANT: Susan P. McElhinney
TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
FILE REFERENCE: 00630/100M137-US2
CURRENT APPLICATION NUMBER: US/10/530,253
CURRENT FILING DATE: 2005-04-04
PRIOR APPLICATION NUMBER: PCT/US2003/031726
PRIOR FILING DATE: 2003-10-02
PRIOR APPLICATION NUMBER: US 60/415,929
PRIOR FILING DATE: 2002-10-03
NUMBER OF SEQ ID NOS: 65
SOFTWARE: PatentIn version 3.1
SEQ ID NO 22
LENGTH: 148
TYPE: PRT
ORGANISM: Human papillomavirus type 52
US-10-530-253-22

Query Match 76.6%; Score 36; DB 9; Length 148;
Best Local Similarity 77.8%; Pred. No. 7.2;
Matches 7; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 KEYSKISRY 9
: |||||
Db 68 RFLSKISRY 76

RESULT 29
US-10-530-253-17
Sequence 17, Application US/10530253
Publication No. US20060014926A1
GENERAL INFORMATION:
APPLICANT: Casasetti, Maria C.
APPLICANT: Smith, Larry
APPLICANT: Jeffrey K. Pullen
APPLICANT: Susan P. McElhinney
TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
FILE REFERENCE: 00630/100M137-US2
CURRENT APPLICATION NUMBER: US/10/530,253
CURRENT FILING DATE: 2005-04-04
PRIOR APPLICATION NUMBER: PCT/US2003/031726
PRIOR FILING DATE: 2003-10-02
PRIOR APPLICATION NUMBER: US 60/415,929
PRIOR FILING DATE: 2002-10-03
NUMBER OF SEQ ID NOS: 65
SOFTWARE: PatentIn version 3.1
SEQ ID NO 17
LENGTH: 149
TYPE: PRT
ORGANISM: Human papillomavirus type 33
US-10-530-253-17

Query Match 76.6%; Score 36; DB 9; Length 149;
Best Local Similarity 77.8%; Pred. No. 7.2;
Matches 7; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 KEYSKISEY 9
: |||||
Db 68 RFLSKISEY 76

RESULT 30

US-11-113-424-45
; Sequence 45, Application US/11113424
; Publication No. US20050260713A1
; GENERAL INFORMATION:
; APPLICANT: Gangolli et al.
; TITLE OF INVENTION: Polypeptides and Nucleic Acids Encoding Same
; FILE REFERENCE: 21402-225
; CURRENT APPLICATION NUMBER: US/11/113,424
; CURRENT FILING DATE: 2005-04-21
; PRIOR APPLICATION NUMBER: 60/256,704
; PRIOR FILING DATE: 2000-12-19
; PRIOR APPLICATION NUMBER: 60/311,590
; PRIOR FILING DATE: 2001-08-10
; PRIOR APPLICATION NUMBER: 60/257,314
; PRIOR FILING DATE: 2000-12-20
; PRIOR APPLICATION NUMBER: 60/311,613
; PRIOR FILING DATE: 2001-08-10
; PRIOR APPLICATION NUMBER: 60/315,617
; PRIOR FILING DATE: 2001-08-29
; PRIOR APPLICATION NUMBER: 60/307,506
; PRIOR FILING DATE: 2001-07-24
; PRIOR APPLICATION NUMBER: 60/322,358
; PRIOR FILING DATE: 2001-09-14
; PRIOR APPLICATION NUMBER: 60/294,075
; PRIOR FILING DATE: 2001-05-29
; PRIOR APPLICATION NUMBER: 60/288,153
; PRIOR FILING DATE: 2001-05-02
; NUMBER OF SEQ ID NOS: 190
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 45
; LENGTH: 688
; TYPE: PRT
; ORGANISM: Rattus norvegicus
US-11-113-424-45

Query Match 74.5%; Score 35; DB 11; Length 688;
Best Local Similarity 66.7%; Pred. No. 55;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 KEYSKISEY 9
: |||||
Db 84 KFYEBIKSEY 92

RESULT 31
US-11-113-424-48
; Sequence 48, Application US/11113424
; Publication No. US20050260713A1
; GENERAL INFORMATION:
; APPLICANT: Gangolli et al.
; TITLE OF INVENTION: Polypeptides and Nucleic Acids Encoding Same
; FILE REFERENCE: 21402-225
; CURRENT APPLICATION NUMBER: US/11/113,424
; CURRENT FILING DATE: 2005-04-21
; PRIOR APPLICATION NUMBER: 60/256,704
; PRIOR FILING DATE: 2000-12-19
; PRIOR APPLICATION NUMBER: 60/311,590
; PRIOR FILING DATE: 2001-08-10
; PRIOR APPLICATION NUMBER: 60/257,314
; PRIOR FILING DATE: 2000-12-20
; PRIOR APPLICATION NUMBER: 60/311,613
; PRIOR FILING DATE: 2001-08-10
; PRIOR APPLICATION NUMBER: 60/315,617
; PRIOR FILING DATE: 2001-08-29
; PRIOR APPLICATION NUMBER: 60/307,506
; PRIOR FILING DATE: 2001-07-24
; PRIOR APPLICATION NUMBER: 60/322,358

; PRIOR FILING DATE: 2001-09-14
; PRIOR APPLICATION NUMBER: 60/294,075
; PRIOR FILING DATE: 2001-05-29
; PRIOR APPLICATION NUMBER: 60/288,153
; PRIOR FILING DATE: 2001-05-02
; NUMBER OF SEQ ID NOS: 190
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 48
; LENGTH: 688
; TYPE: PRT
; ORGANISM: Bos taurus
US-11-113-424-48

Query Match 74.5%; Score 35; DB 11; Length 688;
Best Local Similarity 66.7%; Pred. No. 55;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 KEYSKISEY 9
: |||||
Db 84 KFYEBIKSEY 92

RESULT 32
US-11-113-424-49
; Sequence 49, Application US/11113424
; Publication No. US20050260713A1
; GENERAL INFORMATION:
; APPLICANT: Gangolli et al.
; TITLE OF INVENTION: Polypeptides and Nucleic Acids Encoding Same
; FILE REFERENCE: 21402-225
; CURRENT APPLICATION NUMBER: US/11/113,424
; CURRENT FILING DATE: 2005-04-21
; PRIOR APPLICATION NUMBER: 60/256,704
; PRIOR FILING DATE: 2000-12-19
; PRIOR APPLICATION NUMBER: 60/311,590
; PRIOR FILING DATE: 2001-08-10
; PRIOR APPLICATION NUMBER: 60/257,314
; PRIOR FILING DATE: 2000-12-20
; PRIOR APPLICATION NUMBER: 60/311,613
; PRIOR FILING DATE: 2001-08-10
; PRIOR APPLICATION NUMBER: 60/315,617
; PRIOR FILING DATE: 2001-08-29
; PRIOR APPLICATION NUMBER: 60/307,506
; PRIOR FILING DATE: 2001-05-29
; PRIOR APPLICATION NUMBER: 60/288,153
; PRIOR FILING DATE: 2001-05-02
; NUMBER OF SEQ ID NOS: 190
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 49
; LENGTH: 688
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-113-424-49

Query Match 74.5%; Score 35; DB 11; Length 688;
Best Local Similarity 66.7%; Pred. No. 55;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 KEYSKISEY 9
: |||||
Db 84 KFYEBIKSEY 92

RESULT 33
US-11-040-218-25
; Sequence 25, Application US/11040218
; Publication No. US2006022983A1
; GENERAL INFORMATION:
; APPLICANT: OATLEY, ROBERT H.

```
APPLICANT: HUDSON, CHRISTINE C.
TITLE OF INVENTION: CONSTITUTIVELY TRANSLOCATING CELL LINE
FILE REFERENCE: NRK.108
CURRENT APPLICATION NUMBER: US/11/040,218
CURRENT FILING DATE: 2005-01-21
PRIOR APPLICATION NUMBER: US/10/788,197
PRIOR FILING DATE: 2004-02-26
PRIOR APPLICATION NUMBER: PCT/US03/14581
PRIOR FILING DATE: 2003-05-12
PRIOR APPLICATION NUMBER: 60/379,986
PRIOR FILING DATE: 2002-05-13
PRIOR APPLICATION NUMBER: 60/401,698
PRIOR FILING DATE: 2002-08-07
NUMBER OF SEQ ID NOS: 94
SOFTWARE: PatentIn Ver. 3.2
SEQ ID NO 25
LENGTH: 688
TYPE: PRT
ORGANISM: Homo sapiens
US-11-040-218-25
```

```
Query Match      74.5% Score 35; DB 11; Length 688;
Best Local Similarity 66.7% Pred. No. 55;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;
```

```
QY 1 KFSKISSEY 9
Db 84 KFEERKEY 92
```

```
RESULT 34
US-11-040-218-27
Sequence 27, Application US/11040218
Publication No. US20060029583A1
GENERAL INFORMATION:
APPLICANT: OAKLEY, ROBERT H.
TITLE OF INVENTION: CONSTITUTIVELY TRANSLOCATING CELL LINE
FILE REFERENCE: NRK.108
CURRENT APPLICATION NUMBER: US/11/040,218
CURRENT FILING DATE: 2005-01-21
PRIOR APPLICATION NUMBER: US/10/788,197
PRIOR FILING DATE: 2004-02-26
PRIOR APPLICATION NUMBER: PCT/US03/14581
PRIOR FILING DATE: 2003-05-12
PRIOR APPLICATION NUMBER: 60/379,986
PRIOR FILING DATE: 2002-05-13
PRIOR APPLICATION NUMBER: 60/401,698
PRIOR FILING DATE: 2002-08-07
NUMBER OF SEQ ID NOS: 94
SOFTWARE: PatentIn Ver. 3.2
SEQ ID NO 27
LENGTH: 688
TYPE: PRT
ORGANISM: Bos taurus
US-11-040-218-27
```

```
Query Match      74.5% Score 35; DB 11; Length 688;
Best Local Similarity 66.7% Pred. No. 55;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;
```

```
QY 1 KFSKISSEY 9
Db 84 KFEERKEY 92
```

```
RESULT 35
US-11-188-298-14739
Sequence 14739, Application US/11188298
Publication No. US20060075522A1
GENERAL INFORMATION:
APPLICANT: Abad, Mark S. et al.
TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
```

```
FILE REFERENCE: 38-21(53452)B
CURRENT APPLICATION NUMBER: US/11/188,298
CURRENT FILING DATE: 2005-07-22
PRIOR APPLICATION NUMBER: 60/592,978
PRIOR FILING DATE: 2004-07-31
NUMBER OF SEQ ID NOS: 22569
SEQ ID NO 14739
LENGTH: 852
TYPE: PRT
ORGANISM: Bacteroides thetaiotaomicron VPI-5482
US-11-188-298-14739
```

```
Query Match      72.3% Score 34; DB 11; Length 852;
Best Local Similarity 55.6% Pred. No. 1.1e+02;
Matches 5; Conservative 4; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 KFSKISSEY 9
Db 708 RPYNLSSEH 716
```

```
RESULT 36
US-10-530-061-89
Sequence 89, Application US/10530061
Publication No. US20060079453A1
GENERAL INFORMATION:
APPLICANT: SIDNEY, JOHN
APPLICANT: SOUTHWOOD, SCOTT
APPLICANT: SETTE, ALESSANDRO
TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
FILE REFERENCE: 2060.03US02/EKS/M-M
CURRENT APPLICATION NUMBER: US/10/530,061
CURRENT FILING DATE: 2005-04-04
PRIOR APPLICATION NUMBER: PCT/US03/31308
PRIOR FILING DATE: 2003-10-03
PRIOR APPLICATION NUMBER: 60/416,207
PRIOR FILING DATE: 2002-10-03
PRIOR APPLICATION NUMBER: 60/417,269
PRIOR FILING DATE: 2002-10-08
NUMBER OF SEQ ID NOS: 2503
SOFTWARE: PatentIn version 3.3
SEQ ID NO 89
LENGTH: 9
TYPE: PRT
ORGANISM: Human papillomavirus
US-10-530-061-89
```

```
Query Match      70.2% Score 33; DB 9; Length 9;
Best Local Similarity 66.7% Pred. No. 1.9e+05;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;
```

```
QY 1 KFSKISSEY 9
Db 1 RYLSKISSEY 9
```

```
RESULT 37
US-10-530-061-817
Sequence 817, Application US/10530061
Publication No. US20060079453A1
GENERAL INFORMATION:
APPLICANT: SIDNEY, JOHN
APPLICANT: SOUTHWOOD, SCOTT
APPLICANT: SETTE, ALESSANDRO
TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
FILE REFERENCE: 2060.03US02/EKS/M-M
CURRENT APPLICATION NUMBER: US/10/530,061
CURRENT FILING DATE: 2005-04-04
PRIOR APPLICATION NUMBER: PCT/US03/31308
PRIOR FILING DATE: 2003-10-03
PRIOR APPLICATION NUMBER: 60/416,207
PRIOR FILING DATE: 2002-10-03
PRIOR APPLICATION NUMBER: 60/417,269
```

;; PRIOR FILING DATE: 2002-10-08
;; NUMBER OF SEQ ID NOS: 2503
;; SOFTWARE: Patentin version 3.3
;; SEQ ID NO 817
;; LENGTH: 9
;; TYPE: PRT
;; ORGANISM: Human papillomavirus
US-10-530-061-817

Query Match 70.2%; Score 33; DB 9; Length 9;
Best Local Similarity 66.7%; Pred. No. 1.9e+05;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 KFYSKISEY 9
DB 1 RYLSKISEY 9

RESULT 38
US-10-530-061-536
;; Sequence 536, Application US/10530061
;; Publication No. US20060079453A1
;; GENERAL INFORMATION:
;; APPLICANT: SIDNEY, JOHN
;; APPLICANT: SOUTHWOOD, SCOTT
;; APPLICANT: SETTE, ALESSANDRO
;; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USRS
;; FILE REFERENCE: 2060.033US02/EXS/M-M
;; CURRENT APPLICATION NUMBER: US/10/530, 061
;; PRIOR FILING DATE: 2005-04-04
;; PRIOR APPLICATION NUMBER: PCT/US03/31308
;; PRIOR FILING DATE: 2003-10-03
;; PRIOR APPLICATION NUMBER: 60/416,207
;; PRIOR FILING DATE: 2002-10-03
;; PRIOR FILING DATE: 2002-10-08
;; PRIOR APPLICATION NUMBER: 60/417,269
;; NUMBER OF SEQ ID NOS: 2503
;; SOFTWARE: Patentin version 3.3
;; SEQ ID NO 536
;; LENGTH: 10
;; TYPE: PRT
;; ORGANISM: Human papillomavirus
US-10-530-061-536

Query Match 70.2%; Score 33; DB 9; Length 10;
Best Local Similarity 55.6%; Pred. No. 1.7;
Matches 5; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 1 KFYSKISEY 9
DB 1 RYLSKISEY 9

RESULT 39
US-10-873-528-141
;; Sequence 141, Application US/10873528
;; Publication No. US20050276814A1
;; GENERAL INFORMATION:
;; APPLICANT: Microbial Technics Limited
;; APPLICANT: Gilbert, Christophe FG
;; APPLICANT: Hansbro, Philip M
;; TITLE OF INVENTION: Proteins
;; FILE REFERENCE: PWC/P21129WO
;; CURRENT APPLICATION NUMBER: US/10/873, 528
;; PRIOR FILING DATE: 2004-06-23
;; PRIOR APPLICATION NUMBER: US/09/769, 787
;; PRIOR FILING DATE: 2001-01-26
;; PRIOR APPLICATION NUMBER: GB 9816337.1
;; PRIOR FILING DATE: 1998-03-27
;; PRIOR APPLICATION NUMBER: US 60/125164
;; PRIOR FILING DATE: 1999-03-19
;; NUMBER OF SEQ ID NOS: 388
;; TYPE: PRT
;; ORGANISM: Patentin Ver. 2.1

;; SEQ ID NO 141
;; LENGTH: 325
;; TYPE: PRT
;; ORGANISM: Streptococcus pneumoniae
US-10-873-528-141

Query Match 70.2%; Score 33; DB 9; Length 325;
Best Local Similarity 55.6%; Pred. No. 62;
Matches 5; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 1 KFYSKISEY 9
DB 70 KFYKVFQY 78

RESULT 40
US-10-506-454-326
;; Sequence 326, Application US/10506454
;; Publication No. US20060068386A1
;; GENERAL INFORMATION:
;; APPLICANT: Slesarev, Alexi I
;; APPLICANT: Mezhnevaya, Katja V
;; APPLICANT: Polushin, Nikolai N
;; APPLICANT: Shcherbina, Olga V
;; APPLICANT: Shakhova, Vera V
;; APPLICANT: Mal'kh, Andrei G
;; APPLICANT: Kozyavkin, Sergei A
;; TITLE OF INVENTION: The Complete Genome and Protein Sequences of the Hyperthermophil
;; TITLE OF INVENTION: Methanopyrus kandleri AV19 and Monophyly of Archaeal Methanogens
;; FILE REFERENCE: FID001
;; CURRENT APPLICATION NUMBER: US/10/506,454
;; PRIOR FILING DATE: 2004-08-31
;; PRIOR APPLICATION NUMBER: PCT/US03/06664
;; PRIOR FILING DATE: 2003-03-04
;; PRIOR FILING DATE: 2002-03-04
;; PRIOR FILING DATE: 2002-03-04
;; PRIOR APPLICATION NUMBER: 60/361,742
;; NUMBER OF SEQ ID NOS: 1722
;; SOFTWARE: Patentin version 3.2
;; SEQ ID NO 326
;; LENGTH: 566
;; TYPE: PRT
;; ORGANISM: Methanopyrus kandleri
US-10-506-454-326

Query Match 70.2%; Score 33; DB 9; Length 566;
Best Local Similarity 66.7%; Pred. No. 1.1e+02;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 KFYSKISEY 9
DB 522 RYLSKISEY 530

RESULT 41
US-11-079-463-6352
;; Sequence 6352, Application US/11079463
;; Publication No. US20060073161A1
;; GENERAL INFORMATION:
;; APPLICANT: Gary L. Breton
;; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO BACTERIOIDES FR
;; FILE REFERENCE: PATH00-03DIV2
;; CURRENT APPLICATION NUMBER: US/11/079,463
;; PRIOR FILING DATE: 2005-03-14
;; PRIOR APPLICATION NUMBER: US 60/128,705
;; PRIOR FILING DATE: 1999-04-09
;; PRIOR APPLICATION NUMBER: US 09/540,209
;; PRIOR FILING DATE: 2000-04-04
;; NUMBER OF SEQ ID NOS: 10444
;; SEQ ID NO 6352
;; LENGTH: 590
;; TYPE: PRT

ORGANISM: B.fragilis
US-11-079-453-6352

Query Match 70.2%; Score 33; DB 11; Length 590;
Best Local Similarity 75.0%; Pred. No. 1.1e+02;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 KFSKISE 8
DB 519 KFYKIKE 526

RESULT 42

US-10-530-061-98
; Sequence 98, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.03US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; PRIOR FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 98
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-98

Query Match 68.1%; Score 32; DB 9; Length 9;
Best Local Similarity 66.7%; Pred. No. 1.9e+05;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 KFSKISE 9
DB 1 RFLSKISE 9

RESULT 43

US-10-530-061-931
; Sequence 831, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.03US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 831
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-931

Query Match 68.1%; Score 32; DB 9; Length 9;
Best Local Similarity 66.7%; Pred. No. 1.9e+05;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 KFSKISE 9
DB 1 RFLSKISE 9

RESULT 44

US-10-530-061-590
; Sequence 590, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.03US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 590
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-590

Query Match 68.1%; Score 32; DB 9; Length 10;
Best Local Similarity 62.5%; Pred. No. 2.6;
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 2 FYSKISE 9
DB 2 FYSKVRKY 9

RESULT 45

US-10-530-061-796
; Sequence 796, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.03US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 796
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-796

Query Match 68.1%; Score 32; DB 9; Length 10;
Best Local Similarity 62.5%; Pred. No. 2.6;
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 2 FYSKISSEY 9
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Db 1 FYSKVRKY 8

RESULT 46
US-10-530-061-496
; Sequence 496, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.033US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; PRIOR FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR FILING DATE: 2002-10-08
; PRIOR APPLICATION NUMBER: 60/417,269
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 496
; LENGTH: 11
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-496

Query Match 68.1%; Score 32; DB 9; Length 11;
Best Local Similarity 62.5%; Pred. No. 2.9;
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 2 FYSKISSEY 9
||||: :|
Db 3 FYSKVRKY 10

RESULT 47
US-10-530-061-1693
; Sequence 1693, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.033US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; PRIOR FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1693
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-1693

Query Match 68.1%; Score 32; DB 9; Length 15;
Best Local Similarity 62.5%; Pred. No. 4;
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 2 FYSKISSEY 9
||||: :|

Db 5 FYSKVRKY 12

RESULT 48
US-10-530-253-23
; Sequence 23, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Casseati, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; PRIOR FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 23
; LENGTH: 155
; TYPE: PRT
; ORGANISM: Human papillomavirus type 56
US-10-530-253-23

Query Match 68.1%; Score 32; DB 9; Length 155;
Best Local Similarity 62.5%; Pred. No. 45;
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 2 FYSKISSEY 9
||||: :|
Db 72 FYSKVRKY 79

RESULT 49
US-10-530-253-19
; Sequence 19, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Casseati, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; PRIOR FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 19
; LENGTH: 158
; TYPE: PRT
; ORGANISM: Human papillomavirus type 39
US-10-530-253-19

Query Match 68.1%; Score 32; DB 9; Length 158;
Best Local Similarity 75.0%; Pred. No. 46;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 FYSKISSEY 8
||||: :|
Db 70 FYSKVRKY 77

RESULT 50
US-10-530-253-26

; Sequence 26, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Cassecci, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 26
; LENGTH: 158
; TYPE: PRT
; ORGANISM: Human papillomavirus type 68
US-10-530-253-26

Query Match 68.1%; Score 32; DB 9; Length 158;
Best Local Similarity 75.0%; Pred. No. 46;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

OY 1 KFSKISE 8
||:||||
Db 70 KFYAKIRE 77

Search completed: May 5, 2006, 08:07:58
Job time : 9.5 secs

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OM protein - protein search, using SW model

Run on: May 5, 2006, 04:01:20 ; Search time 20.7 Seconds
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35.946 Million cell updates/sec

Title: US-08-170-344-49
Perfect score: 56
Sequence: 1 ISEYRHYCY 9

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Gapop 10.0 , Gapext 0.5

Searched: 572060 seqs, 82675679 residues
Total number of hits satisfying chosen parameters: 572060

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
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Database : Issued Patents AA: *
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3: /cgn2_6/ptodata/1/1aa/H_COMB.pep: *
4: /cgn2_6/ptodata/1/1aa/PCMTUS_COMB.pep: *
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Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

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1	56	100.0	9	US-08-159-339A-76	Sequence 76, Appl
2	56	100.0	9	US-09-601-729-777	Sequence 277, Appl
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4	56	100.0	20	US-08-934-915-163	Sequence 163, Appl
5	56	100.0	29	US-09-980-523A-8	Sequence 8, Appl
6	56	100.0	158	US-09-980-523A-2	Sequence 2, Appl
7	56	100.0	162	US-08-316-239B-3	Sequence 3, Appl
8	56	100.0	162	US-08-316-239B-4	Sequence 4, Appl
9	56	100.0	172	US-08-860-165-12	Sequence 12, Appl
10	56	100.0	172	US-08-860-165-14	Sequence 14, Appl
11	56	100.0	172	US-09-359-382-12	Sequence 12, Appl
12	56	100.0	172	US-09-359-382-14	Sequence 14, Appl
13	56	100.0	182	US-08-117-083-10	Sequence 10, Appl
14	56	100.0	243	US-09-463-993-1	Sequence 1, Appl
15	56	100.0	266	US-08-860-165-10	Sequence 10, Appl
16	56	100.0	266	US-09-359-382-10	Sequence 10, Appl
17	56	100.0	266	US-09-359-382-12	Sequence 12, Appl
18	56	100.0	273	US-09-485-885-4	Sequence 4, Appl
19	56	100.0	273	US-09-485-885-10	Sequence 10, Appl
20	56	100.0	371	US-09-485-885-6	Sequence 6, Appl
21	56	100.0	390	US-09-485-885-14	Sequence 14, Appl
22	52	92.9	151	US-09-701-080C-18	Sequence 18, Appl
23	47	83.9	9	US-08-159-339A-134	Sequence 134, Appl
24	41	73.2	370	US-09-454-071-6	Sequence 6, Appl
25	40	71.4	9	US-08-159-339A-234	Sequence 234, Appl
26	40	71.4	10	US-08-159-339A-75	Sequence 75, Appl
27	39	69.6	9	US-08-159-339A-247	Sequence 247, Appl

28	38	67.9	28	2	US-09-149-476-640	Sequence 640, Appl
29	38	67.9	143	2	US-09-583-110-4238	Sequence 4238, Appl
30	37	66.1	124	2	US-09-270-767-3388	Sequence 3388, A
31	36	64.3	63	2	US-09-248-796A-24718	Sequence 24718, A
32	36	64.3	75	2	US-09-248-796A-22612	Sequence 22612, A
33	36	64.3	169	2	US-09-489-039A-13995	Sequence 13995, A
34	36	64.3	200	2	US-09-099-041A-11	Sequence 11, Appl
35	36	64.3	200	2	US-09-245-281-11	Sequence 11, Appl
36	36	64.3	200	2	US-09-207-359B-11	Sequence 11, Appl
37	36	64.3	200	2	US-09-340-620A-11	Sequence 11, Appl
38	36	64.3	200	2	US-09-865-364-11	Sequence 11, Appl
39	36	64.3	200	2	US-09-728-721-11	Sequence 11, Appl
40	36	64.3	212	2	US-09-388-221B-20	Sequence 20, Appl
41	36	64.3	238	2	US-09-134-000C-3467	Sequence 3467, Ap
42	36	64.3	245	2	US-08-469-260A-42	Sequence 42, Appl
43	36	64.3	245	2	US-08-488-446-42	Sequence 42, Appl
44	36	64.3	245	2	US-08-467-344A-42	Sequence 42, Appl
45	36	64.3	245	2	US-08-424-550B-42	Sequence 42, Appl
46	36	64.3	320	2	US-10-014-269-30	Sequence 30, Appl
47	36	64.3	320	2	US-10-002-974-30	Sequence 30, Appl
48	36	64.3	374	2	US-09-442-349A-4	Sequence 4, Appl
49	36	64.3	374	2	US-09-442-349A-65	Sequence 65, Appl
50	36	64.3	374	2	US-09-442-349A-66	Sequence 66, Appl
51	36	64.3	374	2	US-09-442-349A-67	Sequence 67, Appl
52	36	64.3	374	2	US-09-442-349A-68	Sequence 68, Appl
53	36	64.3	374	2	US-09-442-349A-69	Sequence 69, Appl
54	36	64.3	374	2	US-09-442-349A-70	Sequence 70, Appl
55	36	64.3	374	2	US-09-442-349A-71	Sequence 71, Appl
56	36	64.3	374	2	US-09-442-349A-72	Sequence 72, Appl
57	36	64.3	374	2	US-09-442-349A-73	Sequence 73, Appl
58	36	64.3	374	2	US-09-442-349A-74	Sequence 74, Appl
59	36	64.3	374	2	US-09-442-349A-75	Sequence 75, Appl
60	36	64.3	374	2	US-09-442-349A-76	Sequence 76, Appl
61	36	64.3	374	2	US-09-442-349A-77	Sequence 77, Appl
62	36	64.3	374	2	US-09-442-349A-78	Sequence 78, Appl
63	36	64.3	374	2	US-09-442-349A-79	Sequence 79, Appl
64	36	64.3	374	2	US-09-442-349A-80	Sequence 80, Appl
65	36	64.3	374	2	US-09-442-349A-81	Sequence 81, Appl
66	36	64.3	374	2	US-09-442-349A-82	Sequence 82, Appl
67	36	64.3	374	2	US-09-442-349A-83	Sequence 83, Appl
68	36	64.3	374	2	US-09-442-349A-84	Sequence 84, Appl
69	36	64.3	374	2	US-09-442-349A-85	Sequence 85, Appl
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71	36	64.3	374	2	US-09-442-349A-87	Sequence 87, Appl
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76	36	64.3	374	2	US-09-442-349A-92	Sequence 92, Appl
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78	36	64.3	374	2	US-09-949-016-9251	Sequence 9251, Ap
79	36	64.3	374	2	US-09-442-349A-106	Sequence 106, Appl
80	36	64.3	374	4	PCT-US95-11808-1	Sequence 1, Appl
81	36	64.3	478	2	US-09-328-352-7708	Sequence 7708, Ap
82	36	64.3	478	2	US-09-099-041A-26	Sequence 26, Appl
83	36	64.3	478	2	US-09-245-281-26	Sequence 26, Appl
84	36	64.3	478	2	US-09-340-620A-26	Sequence 26, Appl
85	36	64.3	478	2	US-09-865-364-26	Sequence 26, Appl
86	36	64.3	478	2	US-09-728-721-26	Sequence 26, Appl
87	36	64.3	478	2	US-09-513-838-6	Sequence 6, Appl
88	36	64.3	478	2	US-09-949-016-9170	Sequence 9170, Ap
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92	36	64.3	478	2	US-09-245-281-8	Sequence 8, Appl
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94	36	64.3	478	2	US-09-340-620A-8	Sequence 8, Appl
95	36	64.3	478	2	US-09-865-364-8	Sequence 8, Appl
96	36	64.3	478	2	US-09-728-721-8	Sequence 8, Appl
97	36	64.3	478	2	US-09-949-002-387	Sequence 387, Appl
98	36	64.3	478	2	US-10-183-770A-4	Sequence 4, Appl
99	36	64.3	478	2		
100	36	64.3	478	2		

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102	36	64.3	1064	2	US-09-926-820-1	Sequence 1, Appl1	175	35	62.5	766	1	US-08-619-280A-3	Sequence 3, Appl1
103	36	64.3	1181	2	US-09-826-509-587	Sequence 587, App	176	35	62.5	766	1	US-08-940-391-3	Sequence 3, Appl1
104	36	64.3	1608	2	US-09-964-956-61	Sequence 61, Appl	177	35	62.5	766	2	US-09-794-236-1	Sequence 1, Appl1
105	36	64.3	1788	2	US-09-964-956-60	Sequence 60, Appl1	178	35	62.5	766	2	US-10-002-593-6	Sequence 6, Appl1
106	36	64.3	2254	1	US-08-886-819A-28	Sequence 28, Appl	179	35	62.5	766	2	US-09-949-016-6146	Sequence 6146, Ap
107	36	64.3	2254	2	US-08-980-357-28	Sequence 28, Appl	180	35	62.5	766	2	US-09-265-606-3	Sequence 3, Appl1
108	36	64.3	2254	2	US-09-357-755-28	Sequence 28, Appl	181	35	62.5	766	2	US-09-518-550-27	Sequence 27, Appl
109	36	64.3	2641	2	US-09-964-956-63	Sequence 63, Appl	182	35	62.5	766	2	US-10-423-714-6	Sequence 6, Appl1
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111	36	64.3	2814	2	US-09-964-956-25	Sequence 25, Appl	184	35	62.5	805	2	US-09-543-681A-7900	Sequence 7900, Ap
112	35	62.5	14	2	US-09-051-624A-3	Sequence 3, Appl1	185	34	60.7	73	2	US-09-248-796A-14194	Sequence 14194, A
113	35	62.5	36	2	US-09-857-815B-58	Sequence 58, Appl	186	34	60.7	75	2	US-09-270-767-55117	Sequence 36900, A
114	35	62.5	39	2	US-09-857-815B-60	Sequence 60, Appl	187	34	60.7	75	2	US-09-270-767-55117	Sequence 52117, A
115	35	62.5	45	2	US-08-899-437-11	Sequence 11, Appl	188	34	60.7	128	2	US-09-949-016-10685	Sequence 4132, Ap
116	35	62.5	45	2	US-09-126-121-11	Sequence 11, Appl	189	34	60.7	144	2	US-08-729-103-4	Sequence 10685, A
117	35	62.5	46	2	US-08-915-096A-12	Sequence 12, Appl	190	34	60.7	166	1	US-09-949-016-6286	Sequence 4, Appl1
118	35	62.5	46	2	US-09-553-769-10	Sequence 10, Appl	191	34	60.7	166	2	US-09-949-016-6286	Sequence 6286, Ap
119	35	62.5	46	2	US-09-857-815B-4	Sequence 4, Appl1	192	34	60.7	168	2	US-09-107-532A-4480	Sequence 4480, Ap
120	35	62.5	47	2	US-09-857-815B-3	Sequence 3, Appl1	193	34	60.7	174	1	US-08-401-530A-6	Sequence 6, Appl1
121	35	62.5	47	2	US-09-857-815B-12	Sequence 12, Appl	194	34	60.7	174	1	US-08-709-662-6	Sequence 6, Appl1
122	35	62.5	48	1	US-08-465-794-3	Sequence 3, Appl1	195	34	60.7	174	2	US-09-949-016-1686	Sequence 10686, A
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125	35	62.5	48	2	US-09-857-815B-14	Sequence 14, Appl	198	34	60.7	236	2	US-09-299-268-28	Sequence 28, Appl
126	35	62.5	49	2	US-09-857-815B-45	Sequence 45, Appl	199	34	60.7	236	2	US-09-543-681A-849	Sequence 4849, Ap
127	35	62.5	49	2	US-09-097-681-15	Sequence 15, Appl	200	34	60.7	261	2	US-09-489-039A-8710	Sequence 8710, Ap
128	35	62.5	49	2	US-09-857-815B-10	Sequence 10, Appl	201	34	60.7	303	2	US-09-270-767-44856	Sequence 42856, A
129	35	62.5	49	2	US-09-857-815B-13	Sequence 13, Appl	202	34	60.7	358	2	US-09-000-094-20	Sequence 20, Appl
130	35	62.5	53	2	US-09-857-815B-38	Sequence 38, Appl	203	34	60.7	368	2	US-10-011-749-20	Sequence 22, Appl
131	35	62.5	53	2	US-09-857-815B-44	Sequence 44, Appl	204	34	60.7	368	2	US-10-011-749-20	Sequence 22, Appl
132	35	62.5	53	2	US-09-857-815B-63	Sequence 63, Appl	205	34	60.7	375	2	US-09-000-094-22	Sequence 22, Appl
133	35	62.5	60	1	US-08-465-794-14	Sequence 14, Appl	206	34	60.7	435	2	US-10-011-749-22	Sequence 22, Appl
134	35	62.5	60	2	US-09-049-813-14	Sequence 14, Appl	207	34	60.7	437	2	US-09-328-352-4576	Sequence 4576, Ap
135	35	62.5	75	2	US-09-857-815B-37	Sequence 37, Appl	208	34	60.7	457	2	US-09-120-365-72	Sequence 72, Appl
136	35	62.5	75	2	US-09-857-815B-61	Sequence 61, Appl	209	34	60.7	457	2	US-09-515-039-72	Sequence 72, Appl
137	35	62.5	76	2	US-09-857-815B-2	Sequence 2, Appl1	210	34	60.7	465	2	US-09-000-094-24	Sequence 24, Appl
138	35	62.5	77	2	US-09-857-815B-1	Sequence 1, Appl1	211	34	60.7	465	2	US-10-011-749-24	Sequence 24, Appl1
139	35	62.5	77	2	US-09-857-815B-7	Sequence 7, Appl1	212	34	60.7	500	2	US-09-555-704-2	Sequence 4, Appl1
140	35	62.5	78	2	US-09-857-815B-6	Sequence 6, Appl1	213	34	60.7	500	2	US-09-555-704-4	Sequence 4, Appl1
141	35	62.5	78	2	US-09-857-815B-9	Sequence 9, Appl1	214	34	60.7	500	6	5486473-2	APPLICANT: FUK
142	35	62.5	79	2	US-09-857-815B-5	Sequence 5, Appl1	215	34	60.7	573	2	US-09-270-767-45753	Sequence 45753, A
143	35	62.5	79	2	US-09-857-815B-8	Sequence 8, Appl1	216	34	60.7	614	2	US-09-270-767-36832	Sequence 36832, A
144	35	62.5	80	2	US-08-663-191A-1	Sequence 1, Appl1	217	34	60.7	614	2	US-09-270-767-52049	Sequence 52049, A
145	35	62.5	80	2	US-08-663-191A-3	Sequence 3, Appl1	218	34	60.7	970	6	5292923-2	Parent No. 5292923
146	35	62.5	80	2	US-09-051-624A-1	Sequence 1, Appl1	219	34	60.7	1587	2	US-09-000-094-46	Sequence 46, Appl
147	35	62.5	80	2	US-09-051-624A-2	Sequence 2, Appl1	220	34	60.7	1587	2	US-10-011-749-46	Sequence 46, Appl
148	35	62.5	80	2	US-09-554-119A-2	Sequence 2, Appl1	221	34	60.7	3421	2	US-09-452-638-53	Sequence 53, Appl
149	35	62.5	80	2	US-10-338-158-17	Sequence 17, Appl	222	34	60.7	3421	2	US-09-121-587A-13	Sequence 13, Appl
150	35	62.5	80	2	US-09-857-815B-35	Sequence 35, Appl	223	33	58.9	16	1	US-07-876-883-38	Sequence 38, Appl
151	35	62.5	83	2	US-09-857-815B-46	Sequence 46, Appl	224	33	58.9	16	1	US-08-426-550-38	Sequence 38, Appl
152	35	62.5	129	2	US-08-668-846-12	Sequence 12, Appl	225	33	58.9	17	1	US-07-876-883-21	Sequence 21, Appl
153	35	62.5	177	1	US-08-465-794-17	Sequence 17, Appl	226	33	58.9	17	1	US-08-426-550-21	Sequence 21, Appl
154	35	62.5	177	1	US-09-049-813-17	Sequence 17, Appl	227	33	58.9	18	1	US-07-876-883-30	Sequence 30, Appl
155	35	62.5	177	2	US-09-227-853A-13	Sequence 13, Appl	228	33	58.9	18	1	US-07-876-883-30	Sequence 30, Appl
156	35	62.5	178	1	US-08-465-794-18	Sequence 18, Appl	229	33	58.9	18	1	US-08-426-550-20	Sequence 20, Appl
157	35	62.5	178	2	US-09-049-813-18	Sequence 18, Appl	230	33	58.9	18	1	US-08-426-550-30	Sequence 30, Appl
158	35	62.5	178	2	US-08-663-191A-4	Sequence 4, Appl1	231	33	58.9	62	2	US-10-108-311-3	Sequence 3, Appl1
159	35	62.5	227	2	US-09-870-767-33085	Sequence 33085, A	232	33	58.9	79	2	US-09-144-776B-14	Sequence 24, Appl
160	35	62.5	251	2	US-09-710-279-298	Sequence 298, App	233	33	58.9	79	2	US-09-732-210-348	Sequence 348, App
161	35	62.5	251	2	US-09-710-279-722	Sequence 722, App	234	33	58.9	79	2	US-08-882-431B-24	Sequence 24, Appl
162	35	62.5	265	2	US-09-770-767-42985	Sequence 42985, A	235	33	58.9	89	2	US-09-489-039A-8970	Sequence 8970, Ap
163	35	62.5	282	2	US-10-104-047-3069	Sequence 3069, Ap	236	33	58.9	110	2	US-09-966-763-10	Sequence 10, Appl
164	35	62.5	286	2	US-09-134-001C-3571	Sequence 3571, Ap	237	33	58.9	112	2	US-09-270-767-40788	Sequence 40788, A
165	35	62.5	301	2	US-09-248-796A-23478	Sequence 23478, A	238	33	58.9	113	2	US-09-710-279-56004	Sequence 56004, A
166	35	62.5	499	2	US-09-949-016-5911	Sequence 5911, Ap	239	33	58.9	132	2	US-09-710-279-1962	Sequence 21962, Ap
167	35	62.5	531	2	US-09-849-016-7409	Sequence 7409, Ap	240	33	58.9	198	2	US-09-248-796A-21732	Sequence 21732, A
168	35	62.5	545	2	US-08-688-988-39	Sequence 39, Appl	241	33	58.9	220	2	US-08-896-933-20	Sequence 20, Appl
169	35	62.5	545	2	US-10-195-781B-4	Sequence 4, Appl1	242	33	58.9	220	2	US-09-314-235-20	Sequence 20, Appl
170	35	62.5	551	2	US-08-688-988-37	Sequence 37, Appl	243	33	58.9	220	2	US-08-708-008B-20	Sequence 20, Appl
171	35	62.5	593	4	PCT-US93-07923-11	Sequence 11, Appl	244	33	58.9	221	2	US-08-896-933-29	Sequence 29, Appl
172	35	62.5	755	4	PCT-US93-07923-23	Sequence 23, Appl1	245	33	58.9	221	2	US-09-314-235-29	Sequence 29, Appl
173	35	62.5	759	4	PCT-US93-07923-2	Sequence 2, Appl1	246	33	58.9	221	2	US-08-973-391C-14	Sequence 14, Appl

247	33	58.9	221	2	US-09-708-008B-29	Sequence 29, Appl	320	32	57.1	149	2	US-09-969-763-3	Sequence 3, Appl
248	33	58.9	221	2	US-10-625-221-14	Sequence 14, Appl	321	32	57.1	149	2	US-09-949-016-9906	Sequence 9906, Ap
249	33	58.9	221	2	US-09-308-830B-14	Sequence 14, Appl	322	32	57.1	182	2	US-09-328-352-7249	Sequence 7249, Ap
250	33	58.9	251	2	US-09-444-706B-16	Sequence 16, Appl	323	32	57.1	196	2	US-09-198-455A-1204	Sequence 1204, Ap
251	33	58.9	251	2	US-08-873-391C-13	Sequence 13, Appl	324	32	57.1	229	2	US-09-248-796A-20026	Sequence 20026, A
252	33	58.9	251	2	US-08-882-431B-16	Sequence 16, Appl	325	32	57.1	246	2	US-09-438-182A-544	Sequence 544, App
253	33	58.9	251	2	US-10-625-221-13	Sequence 13, Appl	326	32	57.1	250	1	US-08-867-087B-13	Sequence 13, Appl
254	33	58.9	251	2	US-09-308-830B-13	Sequence 13, Appl	327	32	57.1	263	2	US-08-311-731A-174	Sequence 174, App
255	33	58.9	263	2	US-09-653-813-4	Sequence 4, Appl	328	32	57.1	266	2	US-09-328-352-6190	Sequence 6190, Ap
256	33	58.9	263	2	US-09-653-813-6	Sequence 6, Appl	329	32	57.1	267	2	US-09-198-452A-622	Sequence 622, App
257	33	58.9	270	2	US-09-495-406-25	Sequence 25, Appl	330	32	57.1	280	2	US-09-489-032A-7566	Sequence 7566, Ap
258	33	58.9	270	2	US-09-816-028A-39	Sequence 39, Appl	331	32	57.1	282	2	US-09-438-182A-582	Sequence 582, App
259	33	58.9	270	2	US-10-303-162-39	Sequence 39, Appl	332	32	57.1	312	1	US-09-014-969-17	Sequence 17, Appl
260	33	58.9	270	2	US-10-303-134-39	Sequence 39, Appl	333	32	57.1	332	2	US-09-252-991A-11442	Sequence 31442, A
261	33	58.9	270	2	US-10-303-118-39	Sequence 39, Appl	334	32	57.1	354	2	US-10-194-125-2	Sequence 2, Appl
262	33	58.9	270	2	US-10-303-128-39	Sequence 39, Appl	335	32	57.1	359	2	US-09-134-000C-4630	Sequence 4630, Ap
263	33	58.9	278	2	US-09-543-681A-5024	Sequence 5024, Ap	336	32	57.1	421	2	US-09-252-991A-17417	Sequence 17417, A
264	33	58.9	365	2	US-09-198-452A-371	Sequence 371, App	337	32	57.1	427	2	US-09-248-796A-16434	Sequence 16434, A
265	33	58.9	388	2	US-09-949-016-9025	Sequence 9025, Ap	338	32	57.1	437	2	US-09-328-352-5102	Sequence 5102, Ap
266	33	58.9	393	2	US-09-448-796A-18861	Sequence 18861, A	339	32	57.1	452	2	US-09-270-767-60765	Sequence 60765, A
267	33	58.9	463	1	US-08-142-439A-2	Sequence 2, Appl	340	32	57.1	482	2	US-09-538-092-454	Sequence 454, App
268	33	58.9	463	1	US-08-158-735A-2	Sequence 2, Appl	341	32	57.1	500	2	US-09-325-932A-149	Sequence 149, App
269	33	58.9	500	2	US-08-869-477-2	Sequence 2, Appl	342	32	57.1	501	2	US-09-252-991A-25784	Sequence 25784, A
270	33	58.9	532	1	US-08-861-337A-6	Sequence 6, Appl	343	32	57.1	551	2	US-09-489-039A-9510	Sequence 9510, Ap
271	33	58.9	532	2	US-09-382-256-6	Sequence 6, Appl	344	32	57.1	557	2	US-09-540-236-2206	Sequence 2206, Ap
272	33	58.9	532	2	US-09-382-256-14	Sequence 14, Appl	345	32	57.1	755	2	US-09-270-767-45272	Sequence 45272, A
273	33	58.9	532	2	US-08-158-735A-4	Sequence 4, Appl	346	32	57.1	816	1	US-08-820-170A-37	Sequence 37, Appl
274	33	58.9	532	2	US-09-395-115-6	Sequence 6, Appl	347	32	57.1	816	1	US-09-055-699-37	Sequence 37, Appl
275	33	58.9	532	2	US-09-395-115-14	Sequence 14, Appl	348	32	57.1	816	2	US-09-273-565-37	Sequence 37, Appl
276	33	58.9	532	2	US-08-123-934A-2	Sequence 12, Appl	349	32	57.1	816	2	US-09-565-538-37	Sequence 37, Appl
277	33	58.9	532	2	US-08-334-179A-12	Sequence 6, Appl	350	32	57.1	816	2	US-09-661-166-37	Sequence 37, Appl
278	33	58.9	532	2	US-08-436-265-6	Sequence 6, Appl	351	32	57.1	823	2	US-09-976-165-37	Sequence 37, Appl
279	33	58.9	532	2	US-08-436-265-14	Sequence 14, Appl	352	32	57.1	826	2	US-09-248-796A-19339	Sequence 19339, A
280	33	58.9	532	2	US-09-679-187-6	Sequence 6, Appl	353	32	57.1	953	2	US-09-245-281-43	Sequence 43, Appl
281	33	58.9	532	2	US-09-874-628-2	Sequence 2, Appl	354	32	57.1	953	2	US-09-207-359B-43	Sequence 43, Appl
282	33	58.9	532	2	US-08-448-771A-6	Sequence 6, Appl	355	32	57.1	953	2	US-09-340-620A-43	Sequence 43, Appl
283	33	58.9	532	2	US-09-267-931D-6	Sequence 6, Appl	356	32	57.1	953	2	US-09-865-364-43	Sequence 43, Appl
284	33	58.9	532	2	US-09-267-963D-14	Sequence 14, Appl	357	32	57.1	953	2	US-09-728-721-43	Sequence 43, Appl
285	33	58.9	532	2	US-09-267-963D-14	Sequence 14, Appl	358	32	57.1	966	2	US-09-207-359B-47	Sequence 47, Appl
286	33	58.9	532	2	US-09-949-016-6475	Sequence 6475, Ap	359	32	57.1	966	2	US-09-865-364-47	Sequence 47, Appl
287	33	58.9	532	4	PCT-US94-10080-2	Sequence 2, Appl	360	32	57.1	1224	2	US-09-330-872-4	Sequence 4, Appl
288	33	58.9	532	4	PCT-US95-05467-6	Sequence 6, Appl	361	32	57.1	1224	2	US-10-217-774-4	Sequence 4, Appl
289	33	58.9	532	4	PCT-US99-05467-6	Sequence 7785, Ap	362	32	57.1	1237	2	US-10-037-417-70	Sequence 70, Appl
290	33	58.9	544	2	US-09-949-016-7785	Sequence 18606, A	363	32	57.1	1422	2	US-08-469-260A-82	Sequence 82, Appl
291	33	58.9	544	2	US-09-248-796A-18606	Sequence 18606, A	364	32	57.1	1422	2	US-08-469-260A-82	Sequence 82, Appl
292	33	58.9	567	2	US-09-843-378-13	Sequence 13, Appl	365	32	57.1	1422	2	US-08-469-260A-82	Sequence 82, Appl
293	33	57.1	28	2	US-10-194-125-5	Sequence 5, Appl	366	32	57.1	1724	1	US-08-159-339A-1171	Sequence 1171, Ap
294	33	57.1	33	1	US-08-867-087B-63	Sequence 63, Appl	367	32	57.1	11	2	US-09-693-822B-22	Sequence 22, Appl
295	33	57.1	34	1	US-08-867-087B-64	Sequence 64, Appl	368	31	55.4	11	2	US-09-693-822B-21	Sequence 21, Appl
296	33	57.1	38	1	US-08-612-840A-1	Sequence 1, Appl	369	31	55.4	16	2	US-09-693-822B-10	Sequence 10, Appl
297	33	57.1	60	2	US-09-513-999C-4636	Sequence 4636, Ap	370	31	55.4	17	2	US-09-693-822B-20	Sequence 20, Appl
298	33	57.1	65	2	US-09-248-796A-24549	Sequence 24549, A	371	31	55.4	17	2	US-09-693-822B-19	Sequence 19, Appl
299	33	57.1	65	2	US-09-673-195A-414	Sequence 414, App	372	31	55.4	18	2	US-09-693-822B-4	Sequence 4, Appl
300	33	57.1	70	2	US-09-134-001C-2959	Sequence 2959, Ap	373	31	55.4	19	2	US-09-693-822B-5	Sequence 5, Appl
301	33	57.1	90	2	US-09-198-452A-77	Sequence 77, Appl	374	31	55.4	19	2	US-09-693-822B-6	Sequence 6, Appl
302	33	57.1	102	1	US-08-750-856A-16	Sequence 16, Appl	375	31	55.4	19	2	US-09-693-822B-7	Sequence 7, Appl
303	33	57.1	102	1	US-08-750-856A-17	Sequence 17, Appl	376	31	55.4	19	2	US-09-693-822B-8	Sequence 8, Appl
304	33	57.1	102	1	US-08-750-856A-18	Sequence 18, Appl	377	31	55.4	19	2	US-09-693-822B-9	Sequence 9, Appl
305	33	57.1	102	1	US-08-750-856A-19	Sequence 19, Appl	378	31	55.4	20	1	US-09-693-822B-18	Sequence 18, Appl
306	33	57.1	125	4	US-07-893-929A-3	Sequence 3, Appl	379	31	55.4	20	1	US-09-693-822B-23	Sequence 23, Appl
307	33	57.1	125	4	PCT-US92-10344-3	Sequence 3, Appl	380	31	55.4	20	1	US-09-693-822B-24	Sequence 24, Appl
308	33	57.1	126	1	US-08-612-840A-2	Sequence 2, Appl	381	31	55.4	20	1	US-09-693-822B-25	Sequence 25, Appl
309	33	57.1	127	1	US-07-614-443A-1	Sequence 1, Appl	382	31	55.4	20	1	US-09-693-822B-26	Sequence 26, Appl
310	33	57.1	127	1	US-08-294-859-1	Sequence 1, Appl	383	31	55.4	20	1	US-09-693-822B-26	Sequence 26, Appl
311	33	57.1	127	1	US-08-481-676-1	Sequence 1, Appl	384	31	55.4	20	1	US-09-693-822B-26	Sequence 26, Appl
312	33	57.1	127	2	US-09-270-767-40134	Sequence 40134, A	385	31	55.4	20	1	US-09-693-822B-26	Sequence 26, Appl
313	33	57.1	127	2	US-09-270-767-55350	Sequence 55350, A	386	31	55.4	20	1	US-09-693-822B-26	Sequence 26, Appl
314	33	57.1	130	4	US-07-893-929A-7	Sequence 7, Appl	387	31	55.4	20	1	US-09-693-822B-26	Sequence 26, Appl
315	33	57.1	130	4	PCT-US92-10344-7	Sequence 7, Appl	388	31	55.4	20	1	US-09-693-822B-26	Sequence 26, Appl
316	33	57.1	131	4	US-07-893-929A-1	Sequence 1, Appl	389	31	55.4	20	1	US-09-693-822B-26	Sequence 26, Appl
317	33	57.1	131	4	PCT-US92-10344-1	Sequence 1, Appl	390	31	55.4	20	1	US-09-693-822B-26	Sequence 26, Appl
318	33	57.1	132	4	US-07-893-929A-5	Sequence 5, Appl	391	31	55.4	20	1	US-09-693-822B-26	Sequence 26, Appl
319	33	57.1	132	4	PCT-US92-10344-5	Sequence 5, Appl	392	31	55.4	20	1	US-09-693-822B-26	Sequence 26, Appl
			149	1	US-08-612-840A-8	Sequence 8, Appl							

393	31	55.4	51	1	US-08-246-361A-12	Sequence 12, App1	466	31	55.4	467	2	US-10-325-999-2	Sequence 2, App1
394	31	55.4	51	2	US-08-463-772-12	Sequence 12, App1	467	31	55.4	497	6	US-09-134-001C-3903	Patent No. 5486473
395	31	55.4	51	2	PCT-US93-05000-12	Sequence 12, App1	468	31	55.4	546	2	US-09-134-001C-3903	Sequence 3903, Ap
396	31	55.4	61	2	US-09-640-211A-2342	Sequence 2342, Ap	469	31	55.4	546	2	US-09-252-991A-19089	Sequence 19089, A
397	31	55.4	65	2	US-09-248-796A-24662	Sequence 24662, A	470	31	55.4	569	2	US-09-362-831-9	Sequence 9, App1
398	31	55.4	70	2	US-09-252-991A-29915	Sequence 29915, A	471	31	55.4	571	1	US-08-368-803-17	Sequence 17, App1
399	31	55.4	70	2	US-09-543-681A-5998	Sequence 5998, Ap	472	31	55.4	577	1	US-07-820-154A-30	Sequence 30, App1
400	31	55.4	74	2	US-08-936-165A-456	Sequence 456, App	473	31	55.4	577	1	US-08-663-566A-11	Sequence 11, App1
401	31	55.4	74	2	US-09-621-976-7639	Sequence 7639, Ap	474	31	55.4	577	1	US-08-097-554A-30	Sequence 30, App1
402	31	55.4	74	2	US-09-621-976-7700	Sequence 7700, Ap	475	31	55.4	577	1	US-08-023-610-11	Sequence 11, App1
403	31	55.4	80	2	US-09-732-210-342	Sequence 342, App	476	31	55.4	577	1	US-08-288-065A-11	Sequence 11, App1
404	31	55.4	86	2	US-09-621-976-5167	Sequence 5167, Ap	477	31	55.4	577	2	US-08-362-240A-30	Sequence 30, App1
405	31	55.4	92	2	US-09-201-227A-41	Sequence 41, App1	478	31	55.4	577	2	US-08-480-640A-30	Sequence 30, App1
406	31	55.4	98	2	US-09-248-796A-24909	Sequence 24909, A	479	31	55.4	577	2	US-08-295-802-30	Sequence 30, App1
407	31	55.4	109	2	US-09-248-796A-21837	Sequence 21837, A	480	31	55.4	577	2	US-08-804-372A-9	Sequence 9, App1
408	31	55.4	112	2	US-09-107-532A-6163	Sequence 6163, Ap	481	31	55.4	577	2	US-08-488-237A-30	Sequence 30, App1
409	31	55.4	114	2	US-09-732-210-206	Sequence 206, App	482	31	55.4	577	2	US-08-375-992A-30	Sequence 30, App1
410	31	55.4	117	2	US-09-270-767-32735	Sequence 32735, A	483	31	55.4	577	2	US-08-472-679H-30	Sequence 30, App1
411	31	55.4	117	2	US-09-270-767-47952	Sequence 47952, A	484	31	55.4	577	4	PCT-US93-00324-30	Sequence 30, App1
412	31	55.4	123	2	US-09-270-767-37657	Sequence 37657, A	485	31	55.4	577	4	PCT-US95-10245-11	Sequence 11, App1
413	31	55.4	123	2	US-09-270-767-52874	Sequence 52874, A	486	31	55.4	577	6	5310678-3	Patent No. 5310678
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415	31	55.4	134	1	PCT-US92-10344-2	Sequence 2, App1	488	31	55.4	581	2	US-08-477-459-13	Sequence 13, App1
416	31	55.4	144	2	US-09-134-001C-5477	Sequence 5477, Ap	489	31	55.4	581	2	US-08-479-869-13	Sequence 13, App1
417	31	55.4	145	2	US-09-107-532A-7085	Sequence 7085, Ap	490	31	55.4	581	2	US-08-486-414-13	Sequence 13, App1
418	31	55.4	156	2	US-09-252-991A-26436	Sequence 26436, A	491	31	55.4	581	4	PCT-US94-02552A-13	Sequence 13, App1
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422	31	55.4	249	2	US-10-799-870-73	Sequence 73, App1	495	31	55.4	585	1	US-08-316-714-10	Sequence 10, App1
423	31	55.4	253	1	US-08-358-171-10	Sequence 10, App1	496	31	55.4	585	2	US-08-473-673-10	Sequence 10, App1
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428	31	55.4	254	2	US-09-586-106D-79	Sequence 79, App1	501	31	55.4	892	2	US-10-226-629A-15	Sequence 15, App1
429	31	55.4	254	2	US-09-586-106D-89	Sequence 89, App1	502	31	55.4	912	2	US-09-248-796A-16741	Sequence 16741, A
430	31	55.4	254	2	US-10-799-870-59	Sequence 59, App1	503	31	55.4	944	2	US-09-107-532A-4864	Sequence 4864, Ap
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433	31	55.4	254	2	US-10-799-870-79	Sequence 79, App1	506	31	55.4	988	2	US-08-854-050-69	Sequence 69, App1
434	31	55.4	254	2	US-10-799-870-89	Sequence 89, App1	507	31	55.4	988	2	US-09-430-323-69	Sequence 69, App1
435	31	55.4	260	2	US-09-586-106D-83	Sequence 83, App1	508	31	55.4	988	2	US-08-912-951-112	Sequence 112, App
436	31	55.4	260	2	US-10-799-870-83	Sequence 83, App1	509	31	55.4	988	2	US-09-402-181B-112	Sequence 112, App
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438	31	55.4	284	2	US-09-949-016-6967	Sequence 6967, Ap	511	31	55.4	988	2	US-09-766-253-69	Sequence 69, App1
439	31	55.4	290	2	US-09-949-016-11587	Sequence 11587, A	512	31	55.4	988	2	US-10-054-235-69	Sequence 69, App1
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443	31	55.4	306	2	US-09-270-767-49671	Sequence 49671, A	516	31	55.4	1068	2	US-09-265-772-11	Sequence 11, App1
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445	31	55.4	311	2	US-09-609-161B-18	Sequence 18, App1	518	31	55.4	1068	2	US-09-487-558B-47	Sequence 247, App
446	31	55.4	312	2	US-09-270-767-44603	Sequence 44603, A	519	31	55.4	1069	1	US-08-162-081B-37	Sequence 37, App1
447	31	55.4	321	2	US-09-107-433-3261	Sequence 3261, A	520	31	55.4	1069	2	US-08-780-872-37	Sequence 37, App1
448	31	55.4	332	2	US-09-252-991A-32845	Sequence 32845, A	521	31	55.4	1069	2	US-09-085-957-37	Sequence 37, App1
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458	31	55.4	414	2	US-09-640-211A-2247	Sequence 2247, Ap	531	31	55.4	1199	2	US-09-709-979-4	Sequence 4, App1
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463	31	55.4	460	2	US-09-438-185A-1071	Sequence 1071, Ap	536	31	55.4	653	2	US-09-061-764A-2	Sequence 2, App1
464	31	55.4	467	2	US-09-684-855-167	Sequence 167, App	537	30.5	54.5	686	2	US-09-061-764A-15	Sequence 15, App1
465	31	55.4	467	2	US-09-488-265B-35	Sequence 35, App1	538	30.5	54.5	686	2	US-09-724-653-11	Sequence 11, App1

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542	30	53.6	15	4	PCT-US95-04018-9	Sequence 9, Appl1	615	30	53.6	167	1	US-08-050-319B-57	Sequence 57, Appl
543	30	53.6	15	4	PCT-US95-04018-10	Sequence 10, Appl	616	30	53.6	167	1	US-08-465-982-2	Sequence 2, Appl1
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545	30	53.6	16	1	US-08-426-550-33	Sequence 33, Appl	618	30	53.6	169	2	US-09-489-039A-8712	Sequence 8712, Ap
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550	30	53.6	18	1	US-07-876-883-16	Sequence 16, Appl	623	30	53.6	198	2	US-08-842-306B-2	Sequence 2, Appl1
551	30	53.6	18	1	US-07-876-883-18	Sequence 18, Appl	624	30	53.6	198	2	US-08-838-973B-2	Sequence 2, Appl1
552	30	53.6	18	1	US-07-876-883-31	Sequence 31, Appl	625	30	53.6	198	2	US-08-838-973B-2	Sequence 2, Appl1
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566	30	53.6	19	1	US-08-426-550-17	Sequence 17, Appl	639	30	53.6	214	2	US-09-598-401C-70	Sequence 104, App
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578	30	53.6	74	2	US-08-866-545-1	Sequence 1, Appl1	651	30	53.6	254	2	US-09-586-1060-85	Sequence 87, Appl
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583	30	53.6	110	2	US-10-104-047-3086	Sequence 10, Appl	656	30	53.6	255	2	US-09-852-797-96	Sequence 96, Appl
584	30	53.6	123	4	PCT-US92-10344-10	Sequence 10, Appl	657	30	53.6	255	2	US-09-853-161-96	Sequence 96, Appl
585	30	53.6	123	4	PCT-US92-10344-10	Sequence 10, Appl	658	30	53.6	255	2	US-10-058-993-96	Sequence 96, Appl
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587	30	53.6	124	1	US-08-465-982-4	Sequence 4, Appl1	660	30	53.6	256	2	US-08-804-166-2	Sequence 2, Appl1
588	30	53.6	131	2	US-09-198-452A-42	Sequence 42, Appl	661	30	53.6	256	2	US-09-756-186-2	Sequence 2, Appl1
589	30	53.6	136	2	US-09-107-433-4740	Sequence 4740, Ap	662	30	53.6	258	2	US-09-270-767-32758	Sequence 32758, A
590	30	53.6	138	2	US-09-270-767-32892	Sequence 32892, A	663	30	53.6	266	2	US-09-248-796A-21194	Sequence 21194, A
591	30	53.6	138	2	US-09-270-767-46063	Sequence 46063, A	664	30	53.6	266	2	US-09-266-965-141	Sequence 141, App
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594	30	53.6	139	2	US-08-706-945D-129	Sequence 129, App	667	30	53.6	280	2	US-08-795-445A-46	Sequence 46, Appl
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600	30	53.6	153	1	US-08-477-347-12	Sequence 12, Appl	673	30	53.6	285	2	US-09-556-186-6	Sequence 6, Appl1
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602	30	53.6	153	2	US-08-468-560C-4	Sequence 4, Appl1	675	30	53.6	288	2	US-09-683-249-2	Sequence 2, Appl1
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687	30	53.6	323	2	US-09-438-185A-624	Sequence 624, App	760	30	53.6	610	2	US-09-949-016-9964	Sequence 9964, Ap
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692	30	53.6	336	2	US-09-756-186-8	Sequence 8, Appl1	765	30	53.6	626	2	US-09-224-024-31	Sequence 31, Appl
693	30	53.6	344	2	US-09-328-352-6657	Sequence 6657, Ap	766	30	53.6	686	4	PCT-US94-07902-11	Sequence 31, Appl
694	30	53.6	350	2	US-09-270-767-58582	Sequence 58582, A	767	30	53.6	704	2	US-09-409-180A-1	Sequence 1, Appl1
695	30	53.6	402	1	US-08-460-806-4	Sequence 4, Appl1	768	30	53.6	714	2	US-09-248-796A-18753	Sequence 18753, A
696	30	53.6	410	2	US-08-325-630-4	Sequence 4, Appl1	769	30	53.6	744	2	US-09-248-796A-18090	Sequence 18090, A
697	30	53.6	402	2	US-09-252-991A-30570	Sequence 30570, A	770	30	53.6	757	2	US-09-494-297A-2	Sequence 2, Appl1
698	30	53.6	420	2	US-10-070-634-12	Sequence 12, Appl	771	30	53.6	803	2	US-09-154-790A-85	Sequence 85, Appl
699	30	53.6	420	2	US-10-104-047-3015	Sequence 3015, Ap	772	30	53.6	803	2	US-09-665-479A-12	Sequence 12, Appl
700	30	53.6	426	2	US-08-747-562-37	Sequence 37, Appl	773	30	53.6	803	2	US-09-949-016-6883	Sequence 6883, Ap
701	30	53.6	437	2	US-09-073-569-2	Sequence 2, Appl1	774	30	53.6	812	2	US-09-196-452A-978	Sequence 978, App
702	30	53.6	437	2	US-09-830-189C-2	Sequence 2, Appl1	775	30	53.6	812	2	US-09-438-185A-907	Sequence 907, App
703	30	53.6	437	2	US-09-991-181-355	Sequence 355, App	776	30	53.6	909	2	US-09-013-895A-4	Sequence 4, Appl1
704	30	53.6	437	2	US-09-990-444-355	Sequence 355, App	777	30	53.6	909	2	US-09-448-868-4	Sequence 4, Appl1
705	30	53.6	437	2	US-10-033-301-16	Sequence 16, Appl	778	30	53.6	909	2	US-10-226-296-4	Sequence 4, Appl1
706	30	53.6	437	2	US-09-997-333-355	Sequence 355, App	779	30	53.6	1021	2	US-09-543-681A-1383	Sequence 7383, Ap
707	30	53.6	437	2	US-09-992-598-355	Sequence 355, App	780	30	53.6	1082	1	US-08-106-493A-2	Sequence 2, Appl1
708	30	53.6	442	2	US-09-270-767-559249	Sequence 59249, A	781	30	53.6	1082	1	US-08-429-264-2	Sequence 2, Appl1
709	30	53.6	448	2	US-09-361-443-4	Sequence 4, Appl1	782	30	53.6	1123	2	US-10-037-417-71	Sequence 71, Appl
710	30	53.6	453	2	US-09-086-483A-5	Sequence 5, Appl1	783	30	53.6	1139	1	US-08-833-883-2	Sequence 2, Appl1
711	30	53.6	453	2	US-09-580-212-5	Sequence 5, Appl1	784	30	53.6	1139	1	US-08-833-883-2	Sequence 2, Appl1
712	30	53.6	453	2	US-09-769-402-5	Sequence 5, Appl1	785	30	53.6	1531	1	US-08-141-893-2	Sequence 2, Appl1
713	30	53.6	455	1	US-08-050-319B-25	Sequence 25, Appl1	786	30	53.6	1531	1	US-08-463-092B-2	Sequence 2, Appl1
714	30	53.6	455	1	US-08-321-668-2	Sequence 2, Appl1	787	30	53.6	1531	1	US-08-463-092B-4	Sequence 4, Appl1
715	30	53.6	455	1	US-08-837-941-2	Sequence 2, Appl1	788	30	53.6	1531	1	US-08-462-109A-2	Sequence 2, Appl1
716	30	53.6	455	1	US-08-126-016-2	Sequence 2, Appl1	789	30	53.6	1531	1	US-08-462-109A-4	Sequence 4, Appl1
717	30	53.6	455	1	US-08-465-982-25	Sequence 25, Appl	790	30	53.6	1531	1	US-08-460-907B-2	Sequence 2, Appl1
718	30	53.6	455	2	US-08-815-469-5	Sequence 5, Appl1	791	30	53.6	1531	1	US-08-460-907B-4	Sequence 4, Appl1
719	30	53.6	455	2	US-09-006-353A-3	Sequence 3, Appl1	792	30	53.6	1531	2	US-08-463-119A-2	Sequence 2, Appl1
720	30	53.6	455	2	US-09-527-236A-5	Sequence 5, Appl1	793	30	53.6	1531	2	US-08-463-119A-4	Sequence 4, Appl1
721	30	53.6	455	2	US-08-054-970-2	Sequence 2, Appl1	794	30	53.6	1531	2	US-08-461-384B-2	Sequence 2, Appl1
722	30	53.6	455	2	US-09-565-918-4	Sequence 4, Appl1	795	30	53.6	1531	2	US-08-461-384B-4	Sequence 4, Appl1
723	30	53.6	455	2	US-09-573-986-3	Sequence 3, Appl1	796	30	53.6	1531	2	US-08-407-207A-2	Sequence 2, Appl1
724	30	53.6	455	2	US-09-027-287-3	Sequence 3, Appl1	797	30	53.6	1531	2	US-09-647-140B-19	Sequence 19, Appl
725	30	53.6	455	2	US-09-252-625B-3	Sequence 3, Appl1	798	29.5	52.7	428	2	US-09-252-991A-19535	Sequence 19535, A
726	30	53.6	455	2	US-08-406-824A-4	Sequence 4, Appl1	799	29.5	52.7	537	2	US-09-543-681A-4729	Sequence 4729, Ap
727	30	53.6	455	2	US-09-523-323-3	Sequence 3, Appl1	800	29	51.8	15	4	US-08-221-583-11	Sequence 11, Appl
728	30	53.6	455	2	US-09-756-854-5	Sequence 5, Appl1	801	29	51.8	15	4	PCT-US95-04018-11	Sequence 11, Appl
729	30	53.6	455	2	US-09-583-110-3993	Sequence 3993, Ap	802	29	51.8	16	1	US-07-876-883-37	Sequence 37, Appl
730	30	53.6	455	2	US-09-270-767-35242	Sequence 35242, A	803	29	51.8	16	1	US-08-426-550-37	Sequence 25, Appl
731	30	53.6	455	2	US-09-270-767-50459	Sequence 5, Appl1	804	29	51.8	17	1	US-07-876-883-25	Sequence 25, Appl
732	30	53.6	455	2	US-09-557-908-5	Sequence 5, Appl1	805	29	51.8	17	1	US-08-426-550-25	Sequence 4, Appl1
733	30	53.6	455	2	US-09-874-138-3	Sequence 3, Appl1	806	29	51.8	18	1	US-07-876-883-4	Sequence 39, Appl
734	30	53.6	455	2	US-09-333-966-5	Sequence 3, Appl1	807	29	51.8	18	1	US-07-876-883-24	Sequence 24, Appl
735	30	53.6	455	2	US-09-565-009B-3	Sequence 3, Appl1	808	29	51.8	18	1	US-07-876-883-39	Sequence 39, Appl
736	30	53.6	455	2	US-10-175-902-4	Sequence 4, Appl1	809	29	51.8	18	1	US-08-282-030-7	Sequence 7, Appl1
737	30	53.6	455	2	US-10-041-574-5	Sequence 5, Appl1	810	29	51.8	18	1	US-08-426-550-4	Sequence 4, Appl1
738	30	53.6	455	2	US-09-095-094-5	Sequence 5, Appl1	811	29	51.8	18	1	US-08-426-550-24	Sequence 24, Appl
739	30	53.6	455	2	US-09-314-889-5	Sequence 5, Appl1	812	29	51.8	18	1	US-08-426-550-39	Sequence 13, Appl
740	30	53.6	458	2	US-09-949-016-7946	Sequence 7946, Ap	813	29	51.8	18	2	US-09-604-864-13	Sequence 13, Appl
741	30	53.6	467	2	US-09-361-443-2	Sequence 2, Appl1	814	29	51.8	18	2	US-09-030-619-219	Sequence 219, App
742	30	53.6	469	2	US-09-198-452A-793	Sequence 793, App	815	29	51.8	18	2	US-10-042-872-13	Sequence 13, Appl
743	30	53.6	469	2	US-09-438-185A-745	Sequence 745, App	816	29	51.8	18	2	US-09-444-281-100	Sequence 100, App
744	30	53.6	477	2	US-09-248-796A-21985	Sequence 21985, A	817	29	51.8	18	4	PCT-US95-10191-7	Sequence 7, Appl1
745	30	53.6	478	2	US-09-489-039A-7205	Sequence 7205, Ap	818	29	51.8	19	4	US-08-282-030-8	Sequence 8, Appl1
746	30	53.6	480	2	US-09-107-433-4906	Sequence 4906, Ap	819	29	51.8	19	1	PCT-US95-10219-8	Sequence 8, Appl1
747	30	53.6	485	1	US-08-749-391-2	Sequence 2, Appl1	820	29	51.8	20	1	US-08-700-442A-12	Sequence 12, Appl
748	30	53.6	485	1	US-09-390-200-2	Sequence 2, Appl1	821	29	51.8	20	2	US-09-258-934-57	Sequence 57, Appl
749	30	53.6	496	1	US-08-838-543-2	Sequence 2, Appl1	822	29	51.8	20	2	US-08-831-028-12	Sequence 12, Appl
750	30	53.6	509	1	US-09-270-767-43848	Sequence 43848, A	823	29	51.8	20	2	US-09-619-283B-57	Sequence 57, Appl
751	30	53.6	519	2	US-09-248-796A-20852	Sequence 20852, A	824	29	51.8	20	2	US-10-328-125-57	Sequence 49, Appl
752	30	53.6	527	2	US-09-270-767-45990	Sequence 45990, A	825	29	51.8	24	2	US-09-000-094-49	Sequence 49, Appl
753	30	53.6	531	2	US-09-248-796A-16160	Sequence 16160, A	826	29	51.8	24	2	US-10-011-749-49	Sequence 49, Appl
754	30	53.6	536	2	US-09-328-352-7300	Sequence 7300, Ap	827	29	51.8	25	2	US-09-258-934-40	Sequence 40, Appl
755	30	53.6	559	2	US-09-270-767-43239	Sequence 43239, A	828	29	51.8	25	2	US-09-619-283B-40	Sequence 40, Appl
756	30	53.6	580	2	US-09-949-016-6405	Sequence 6405, Ap	829	29	51.8	25	2	US-10-328-125-40	Sequence 40, Appl
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833	29	51.8	53	2	US-09-270-767-56133	Sequence 56133, A	906	29	51.8	179	2	US-09-769-787-87	Sequence 87, Appl
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835	29	51.8	60	2	US-09-493-795B-95	Sequence 95, Appl	908	29	51.8	181	2	US-08-858-207A-317	Sequence 317, Appl
836	29	51.8	61	1	US-08-248-839C-79	Sequence 79, Appl	909	29	51.8	185	2	US-09-325-932A-154	Sequence 154, App
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838	29	51.8	70	2	US-09-270-767-34746	Sequence 34746, A	911	29	51.8	192	2	US-09-543-681A-6818	Sequence 6818, Ap
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841	29	51.8	72	2	US-09-732-210-338	Sequence 338, Appl	914	29	51.8	199	2	US-09-248-796A-19762	Sequence 19762, A
842	29	51.8	78	2	US-09-270-767-37247	Sequence 37247, A	915	29	51.8	216	2	US-09-861-451A-76	Sequence 26, Appl
843	29	51.8	78	2	US-09-513-999C-7549	Sequence 7549, Ap	916	29	51.8	217	2	US-09-252-991A-18564	Sequence 18564, A
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845	29	51.8	79	2	US-09-732-210-345	Sequence 345, App	918	29	51.8	229	2	US-09-270-767-60518	Sequence 60518, A
846	29	51.8	79	2	US-09-732-210-347	Sequence 347, App	919	29	51.8	221	2	US-09-540-226-1926	Sequence 1926, Ap
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854	29	51.8	80	2	US-08-906-616-69	Sequence 69, Appl	927	29	51.8	253	1	US-08-475-427-1	Sequence 2, Appl1
855	29	51.8	80	2	US-08-817-795-69	Sequence 69, Appl	928	29	51.8	254	1	US-07-842-165-1	Sequence 1, Appl1
856	29	51.8	80	2	US-08-485-443B-69	Sequence 69, Appl	929	29	51.8	254	2	US-08-448-398-3	Sequence 3, Appl1
857	29	51.8	80	2	US-08-639-075A-69	Sequence 69, Appl	930	29	51.8	254	2	US-09-586-106D-113	Sequence 113, App
858	29	51.8	80	2	US-09-012-431-69	Sequence 69, Appl	931	29	51.8	254	2	US-10-799-870-113	Sequence 113, App
859	29	51.8	80	2	US-09-012-692-69	Sequence 69, Appl	932	29	51.8	264	2	US-09-614-912-74	Sequence 74, Appl
860	29	51.8	80	2	US-09-770-838-32	Sequence 32, Appl	933	29	51.8	267	2	US-09-710-279-882	Sequence 882, App
861	29	51.8	80	2	US-09-770-838-32	Sequence 32, Appl	934	29	51.8	272	2	US-09-270-767-35352	Sequence 35352, A
862	29	51.8	80	2	US-09-732-210-344	Sequence 344, App	935	29	51.8	272	2	US-09-270-767-50569	Sequence 50569, A
863	29	51.8	80	2	US-09-732-210-346	Sequence 346, App	936	29	51.8	281	2	US-09-638-203-2	Sequence 2, Appl1
864	29	51.8	80	2	US-09-732-210-353	Sequence 353, App	937	29	51.8	282	2	US-09-522-714-2	Sequence 2, Appl1
865	29	51.8	80	2	US-09-854-133-32	Sequence 33, Appl	938	29	51.8	285	2	US-09-252-991A-28046	Sequence 28046, A
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869	29	51.8	93	2	US-09-732-210-340	Sequence 340, App	942	29	51.8	297	2	US-09-270-767-34250	Sequence 34250, A
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872	29	51.8	101	2	US-09-489-039A-12049	Sequence 12049, A	945	29	51.8	302	1	US-08-475-427-6	Sequence 6, Appl1
873	29	51.8	101	1	US-07-893-829A-6	Sequence 6, Appl1	946	29	51.8	307	2	US-07-842-165-6	Sequence 6, Appl1
874	29	51.8	107	4	PCT-US92-10344-6	Sequence 6, Appl1	947	29	51.8	310	1	US-09-107-532A-4626	Sequence 4626, Ap
875	29	51.8	112	2	US-09-248-796A-17853	Sequence 17853, A	948	29	51.8	310	1	US-07-379-259-6	Sequence 6, Appl1
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881	29	51.8	128	4	PCT-US91-10344-8	Sequence 8, Appl1	954	29	51.8	319	2	US-09-457-046B-14	Sequence 14, Appl
882	29	51.8	138	4	PCT-US92-10344-8	Sequence 8, Appl1	955	29	51.8	322	2	US-09-866-570B-14	Sequence 11, Appl
883	29	51.8	140	2	US-08-329-799-37	Sequence 37, Appl	956	29	51.8	324	2	US-08-047-413-11	Sequence 11, Appl
884	29	51.8	141	2	US-09-446-959-6	Sequence 6, Appl1	957	29	51.8	324	2	US-08-229-050-11	Sequence 11, Appl
885	29	51.8	145	2	US-09-252-991A-25402	Sequence 25402, A	958	29	51.8	324	2	US-08-801-563-11	Sequence 11, Appl
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887	29	51.8	141	2	US-09-270-767-47311	Sequence 47311, A	960	29	51.8	328	2	US-07-791-931-5	Sequence 5, Appl1
888	29	51.8	143	2	US-09-252-991A-27046	Sequence 27046, A	961	29	51.8	329	1	US-08-475-427-13	Sequence 13, Appl
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890	29	51.8	144	2	US-09-248-796A-21043	Sequence 21043, A	963	29	51.8	333	2	US-10-300-819B-17	Sequence 8, Appl1
891	29	51.8	147	2	US-09-107-532A-14624	Sequence 14624, App	964	29	51.8	330	1	US-07-704-288C-8	Sequence 8, Appl1
892	29	51.8	148	2	US-09-216-393B-4	Sequence 142, App	965	29	51.8	330	1	US-08-379-259-8	Sequence 8, Appl1
893	29	51.8	153	2	US-09-252-991A-30249	Sequence 30249, A	966	29	51.8	333	1	US-08-170-442A-9	Sequence 9, Appl1
894	29	51.8	153	2	US-09-809-665A-34	Sequence 34, Appl	967	29	51.8	333	2	US-08-831-028-9	Sequence 9, Appl1
895	29	51.8	156	1	US-09-070-060-7	Sequence 7, Appl1	968	29	51.8	334	2	US-08-333-750C-16	Sequence 16, Appl1
896	29	51.8	156	2	US-09-051-969A-3	Sequence 3, Appl1	969	29	51.8	334	2	US-09-234-613-16	Sequence 16, Appl1
897	29	51.8	156	2	US-09-051-969A-4	Sequence 4, Appl1	970	29	51.8	335	2	US-09-349-016-11685	Sequence 11685, A
898	29	51.8	156	2	US-09-357-746-7	Sequence 7, Appl1	971	29	51.8	337	2	US-09-449-016-8252	Sequence 8252, Ap
899	29	51.8	156	2	US-09-665-479A-10	Sequence 10, Appl	972	29	51.8	338	2	US-09-538-092-144	Sequence 144, App
900	29	51.8	156	2	US-09-270-767-38921	Sequence 38921, A	973	29	51.8	348	2	US-08-856-444-2	Sequence 13746, A
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977 29 51.8 350 2 US-09-540-236-2058
978 29 51.8 351 2 US-09-107-532A-3687
979 29 51.8 351 2 US-09-270-767-41311
980 29 51.8 351 2 US-09-270-767-56527
981 29 51.8 364 2 US-09-543-681A-7431
982 29 51.8 364 2 US-09-489-039A-12051
983 29 51.8 365 2 US-09-949-016-6877
984 29 51.8 372 2 US-09-614-912-82
985 29 51.8 380 2 US-10-126-279-10
986 29 51.8 380 2 US-10-286-606-10
987 29 51.8 383 2 US-09-248-796A-20241
988 29 51.8 393 2 US-09-107-532A-4627
989 29 51.8 395 2 US-09-080-044-5
990 29 51.8 395 2 US-09-531-857A-5
991 29 51.8 399 2 US-09-949-016-7504
992 29 51.8 413 2 US-09-543-681A-6093
993 29 51.8 415 2 US-09-538-092-708
994 29 51.8 421 1 US-08-807-263-4
995 29 51.8 421 2 US-09-002-567B-1
996 29 51.8 421 2 US-09-002-567B-3
997 29 51.8 421 2 US-09-571-347-1
998 29 51.8 421 2 US-09-571-347-3
999 29 51.8 421 2 US-09-949-016-6892
1000 29 51.8 432 2 US-09-583-110-4915

ALIGNMENTS

RESULT 1
US-08-159-339A-76
Sequence 76, Application US/08159339A
Patent No. 6037135
GENERAL INFORMATION:
APPLICANT: Kubo, Ralph T.
APPLICANT: Grey, Howard M.
APPLICANT: Sette, Alessandro
APPLICANT: Celis, Esben
TITLE OF INVENTION: HLA Binding peptides and Their
TITLE OF INVENTION: Uses
NUMBER OF SEQUENCES: 1254
CORRESPONDENCE ADDRESSES:
ADDRESSEE: Townsend and Townsend and Crew LLP
STREET: Two Embarcadero Center, Eighth Floor
CITY: San Francisco
STATE: CA
COUNTRY: USA
ZIP: 94111-3834
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FASTSEQ for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/159,339A
FILING DATE: 29-NOV-1993
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/926,666
FILING DATE: 07-AUG-1992
APPLICATION NUMBER: US 08/027,746
FILING DATE: 05-MAR-1993
APPLICATION NUMBER: US 08/103,396
FILING DATE: 06-AUG-1993
ATTORNEY/AGENT INFORMATION:
NAME: Weber, Ellen Lauver
REGISTRATION NUMBER: 32,762
REFERENCE/DOCKET NUMBER: 018623-005030US
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 576-0200
TELEFAX: (415) 576-0300
TELEX:
INFORMATION FOR SEQ ID NO: 76:

Sequence 2058, Ap
Sequence 3687, Ap
Sequence 41311, A
Sequence 56527, A
Sequence 7431, Ap
Sequence 12051, A
Sequence 6877, Ap
Sequence 82, Appl
Sequence 10, Appl
Sequence 10, Appl
Sequence 20241, A
Sequence 4627, Ap
Sequence 5, Appl
Sequence 5, Appl
Sequence 7504, Ap
Sequence 6093, Ap
Sequence 708, App
Sequence 4, Appl
Sequence 3, Appl
Sequence 1, Appl
Sequence 3, Appl
Sequence 6892, Ap
Sequence 4915, Ap

SEQUENCE CHARACTERISTICS:
LENGTH: 9 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-08-159-339A-76

Query Match 100.0%; Score 56; DB 2; Length 9;
Best Local Similarity 100.0%; Pred. No. 4.6e+05;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ISEYRHYCY 9
|||
Db 1 ISEYRHYCY 9

RESULT 2
US-09-601-729-277
Sequence 277, Application US/09601729
Patent No. 6683052
GENERAL INFORMATION:
APPLICANT: THIAM, KADDER
APPLICANT: AURIAULT, CLAUDE
APPLICANT: GRAS-MASSE, HELENE
APPLICANT: LOING, ESTELLE
APPLICANT: VERRARDE, CLAUDE
APPLICANT: GUILLET, JEAN GERARD
TITLE OF INVENTION: LIPOPEPTIDES CONTAINING AN INTERFERON FRAGMENT AND USES
TITLE OF INVENTION: THEROP IN PHARMACEUTICAL COMPOSITIONS
FILE REFERENCE: US-97-AU-IN
CURRENT APPLICATION NUMBER: US/09/601,729
CURRENT FILING DATE: 2000-11-20
PRIOR APPLICATION NUMBER: PCT/FR99/00259
PRIOR FILING DATE: 1999-02-05
PRIOR APPLICATION NUMBER: 98 01439
PRIOR FILING DATE: 1998-02-06
NUMBER OF SEQ ID NOS: 281
SOFTWARE: Patentin Ver. 2.1
SEQ ID NO 277
LENGTH: 9
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Synthetic
OTHER INFORMATION: peptide
US-09-601-729-277

Query Match 100.0%; Score 56; DB 2; Length 9;
Best Local Similarity 100.0%; Pred. No. 4.6e+05;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ISEYRHYCY 9
|||
Db 1 ISEYRHYCY 9

RESULT 3
US-08-934-915-44
Sequence 44, Application US/08934915
Patent No. 5932412
GENERAL INFORMATION:
APPLICANT: DILLNER, JOAKIM
APPLICANT: DILLNER, LENA
APPLICANT: CHENG, HWEE-MING
TITLE OF INVENTION: SYNTHETIC PEPTIDES OF HUMAN
TITLE OF INVENTION: PAPILLOMAVIRUS 1, 5, 6, 8,
TITLE OF INVENTION: 11, 16, 18, 31, 33 AND 56,
TITLE OF INVENTION: USEFUL IN IMMUNOASSAY FOR
NUMBER OF SEQUENCES: 193
CORRESPONDENCE ADDRESS:
ADDRESSEE: MASON & ASSOCIATES, P.A.

STREET: 17757 U.S. HWY. 19 NORTH, SUITE 500
 CITY: CLEARWATER
 STATE: FLORIDA
 COUNTRY: U.S.A.
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: Windows 3.0
 SOFTWARE: Microsoft Word 6.0
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/934,915
 FILING DATE: 22-SEP-1997
 CLASSIFICATION: 435
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: 07/949,836
 FILING DATE:
 ATTORNEY/AGENT INFORMATION:
 NAME: LOUISE A. FOUTCH
 REGISTRATION NUMBER: 37,133
 REFERENCE/DOCKET NUMBER: 1946.6
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 813-538-3800
 TELEFAX: 813-538-3820
 TELEX:
 INFORMATION FOR SEQ ID NO: 44:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 20 amino acids
 TYPE: amino acid
 TOPOLOGY: linear
 MOLECULE TYPE: peptide
 US-08-934-915-44

Query Match 100.0%; Score 56; DB 1; Length 20;
 Best Local Similarity 100.0%; Pred. No. 0.009;
 Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ISEYRHVCY 9
 |||||
 Db 4 ISEYRHVCY 12

RESULT 4
 US-08-934-915-163
 Sequence 163, Application US/08934915
 Patent No. 5932412
 GENERAL INFORMATION:
 APPLICANT: DILLNER, JOAKIM
 APPLICANT: DILLNER, LENA
 APPLICANT: CHENG, HWEI-MING
 TITLE OF INVENTION: SYNTHETIC PEPTIDES OF HUMAN
 TITLE OF INVENTION: PAPILLOMAVIRUS 1, 5, 6, 8,
 TITLE OF INVENTION: 11, 16, 18, 31, 33 AND 56,
 TITLE OF INVENTION: USEFUL IN IMMUNOSAY FOR
 NUMBER OF INVENTIONS: 193
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: MASON & ASSOCIATES, P.A.
 STREET: 17757 U.S. HWY. 19 NORTH, SUITE 500
 CITY: CLEARWATER
 STATE: FLORIDA
 COUNTRY: U.S.A.
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: Windows 3.0
 SOFTWARE: Microsoft Word 6.0
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/934,915
 FILING DATE: 22-SEP-1997
 CLASSIFICATION: 435
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: 07/949,836
 FILING DATE:

ATTORNEY/AGENT INFORMATION:
 NAME: LOUISE A. FOUTCH
 REGISTRATION NUMBER: 37,133
 REFERENCE/DOCKET NUMBER: 1946.6
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 813-538-3800
 TELEFAX: 813-538-3820
 TELEX:
 INFORMATION FOR SEQ ID NO: 163:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 20 amino acids
 TYPE: amino acid
 TOPOLOGY: linear
 MOLECULE TYPE: peptide
 US-08-934-915-163

Query Match 100.0%; Score 56; DB 1; Length 20;
 Best Local Similarity 100.0%; Pred. No. 0.009;
 Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ISEYRHVCY 9
 |||||
 Db 4 ISEYRHVCY 12

RESULT 5
 US-09-980-523A-8
 Sequence 8, Application US/09980523A
 Patent No. 6783763
 GENERAL INFORMATION:
 APPLICANT: CHOPPIN, JEANNINE
 APPLICANT: BOURGAULT VILLADA, ISABELLE
 APPLICANT: GUILLET, JEAN-GERARD
 APPLICANT: CONNAN, FRANCINE
 APPLICANT: FERRIES, ESTELLE
 TITLE OF INVENTION: POLYPEPTIC PROTEIN FRAGMENTS OF THE E6 AND E7
 TITLE OF INVENTION: PROTEINS OF HPV, THEIR PRODUCTION AND THEIR USE
 TITLE OF INVENTION: PARTICULARLY IN VACCINATION
 FILE REFERENCE: WO81 AO INS
 CURRENT APPLICATION NUMBER: US/09/980,523A
 CURRENT FILING DATE: 2002-04-29
 PRIOR APPLICATION NUMBER: PCT/FR00/01513
 PRIOR FILING DATE: 2000-05-31
 PRIOR APPLICATION NUMBER: FR 99/07012
 PRIOR FILING DATE: 1999-06-03
 NUMBER OF SEQ ID NOS: 24
 SOFTWARE: PatentIn Ver. 2.1
 SEQ ID NO 8
 LENGTH: 29
 TYPE: PRT
 ORGANISM: Human Papillomavirus
 US-09-980-523A-8

Query Match 100.0%; Score 56; DB 2; Length 29;
 Best Local Similarity 100.0%; Pred. No. 0.013;
 Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ISEYRHVCY 9
 |||||
 Db 1 ISEYRHVCY 9

RESULT 6
 US-09-980-523A-2
 Sequence 2, Application US/09980523A
 Patent No. 6783763
 GENERAL INFORMATION:
 APPLICANT: CHOPPIN, JEANNINE
 APPLICANT: BOURGAULT VILLADA, ISABELLE
 APPLICANT: GUILLET, JEAN-GERARD
 APPLICANT: CONNAN, FRANCINE
 APPLICANT: FERRIES, ESTELLE
 TITLE OF INVENTION: POLYPEPTIC PROTEIN FRAGMENTS OF THE E6 AND E7

```

; TITLE OF INVENTION: PROTEINS OF HPV, THEIR PRODUCTION AND THEIR USE
; TITLE OF INVENTION: PARTICULARLY IN VACCINATION
; FILE REFERENCE: WO/1 AO INS
; CURRENT APPLICATION NUMBER: US/09/980,523A
; CURRENT FILING DATE: 2002-04-29
; PRIOR APPLICATION NUMBER: PCT/FR00/01513
; PRIOR FILING DATE: 2000-05-31
; PRIOR APPLICATION NUMBER: FR 99/07012
; PRIOR FILING DATE: 1999-06-03
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: Patent In Ver. 2.1
; SEQ ID NO: 2
; LENGTH: 158
; TYPE: PRT
; ORGANISM: Human Papillomavirus
; US-09-980-523A-2

Query Match
Best Local Similarity 100.0%; Score 56; DB 2; Length 158;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ISEYRHYCY 9
DB 80 ISEYRHYCY 88

RESULT 7
US-08-316-239B-3
; Sequence 3, Application US/08316239B
; Patent No. 5679509
; GENERAL INFORMATION:
; APPLICANT: Wheeler, Cosette M.
; TITLE OF INVENTION: Methods and a Diagnostic Aid for
; TITLE OF INVENTION: Distinguishing a Subset of HPV that is Associated with an
; TITLE OF INVENTION: Increased Risk of Developing Cervical Dysplasia and
; TITLE OF INVENTION: Cervical Cancer
; NUMBER OF SEQUENCES: 4
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Jagtiani, Ajay A.
; STREET: 6126 Rocky Way Court
; CITY: Centreville
; STATE: VA
; COUNTRY: USA
; ZIP: 20120-3400
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/316,239B
; FILING DATE: 30-SEP-1994
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Jagtiani, Ajay A.
; REGISTRATION NUMBER: 35,205
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (703) 817-9453
; TELEFAX: (703) 803-9387
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 162 amino acids
; TYPE: amino acid
; STRANDEDNESS: not relevant
; TOPOLOGY: not relevant
; MOLECULE TYPE: protein
; HYPOTHETICAL: NO
; US-08-316-239B-3

Query Match
Best Local Similarity 100.0%; Score 56; DB 1; Length 162;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ISEYRHYCY 9
DB 80 ISEYRHYCY 88

RESULT 8
US-08-316-239B-4
; Sequence 4, Application US/08316239B
; Patent No. 5679509
; GENERAL INFORMATION:
; APPLICANT: Wheeler, Cosette M.
; TITLE OF INVENTION: Methods and a Diagnostic Aid for
; TITLE OF INVENTION: Distinguishing a Subset of HPV that is Associated with an
; TITLE OF INVENTION: Increased Risk of Developing Cervical Dysplasia and
; TITLE OF INVENTION: Cervical Cancer
; NUMBER OF SEQUENCES: 4
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Jagtiani, Ajay A.
; STREET: 6126 Rocky Way Court
; CITY: Centreville
; STATE: VA
; COUNTRY: USA
; ZIP: 20120-3400
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/316,239B
; FILING DATE: 30-SEP-1994
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Jagtiani, Ajay A.
; REGISTRATION NUMBER: 35,205
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (703) 817-9453
; TELEFAX: (703) 803-9387
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 162 amino acids
; TYPE: amino acid
; STRANDEDNESS: not relevant
; TOPOLOGY: not relevant
; MOLECULE TYPE: protein
; HYPOTHETICAL: NO
; US-08-316-239B-4

Query Match
Best Local Similarity 100.0%; Score 56; DB 1; Length 162;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ISEYRHYCY 9
DB 80 ISEYRHYCY 88

RESULT 9
US-08-860-165-12
; Sequence 12, Application US/08860165A
; Patent No. 6004557
; GENERAL INFORMATION:
; APPLICANT: EDWARDS, Scirling John
; APPLICANT: COX, John Cooper
; APPLICANT: WEBB, Elizabeth Ann
; APPLICANT: FRAZER, Ian
; TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
; FILE REFERENCE: 17227/130
; CURRENT APPLICATION NUMBER: US/08/860,165A
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; CURRENT FILING DATE: 1997-09-22
; EARLIER APPLICATION NUMBER: PCT/AU95/00868
; EARLIER FILING DATE: 1995-12-20
; EARLIER APPLICATION NUMBER: AU PN0157
; EARLIER FILING DATE: 1994-12-20
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 12
; LENGTH: 172
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Gene Fusion
US-08-860-165-12

Query Match          100.0%; Score 56; DB 2; Length 172;
Best Local Similarity 100.0%; Pred. No. 0.071;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ISEYRHYCY 9
    |||||
Db 18 ISEYRHYCY 26

RESULT 10
US-08-860-165-14
; Sequence 14, Application US/08860165A
; Patent No. 6004557
; GENERAL INFORMATION:
; APPLICANT: EDWARDS, Stirling John
; APPLICANT: COX, John Cooper
; APPLICANT: WEBB, Elizabeth Ann
; APPLICANT: FRAZER, Ian
; TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
; FILE REFERENCE: 17227/130
; CURRENT APPLICATION NUMBER: US/08/860,165A
; EARLIER FILING DATE: 1997-09-22
; EARLIER APPLICATION NUMBER: PCT/AU95/00868
; EARLIER FILING DATE: 1995-12-20
; EARLIER APPLICATION NUMBER: AU PN0157
; EARLIER FILING DATE: 1994-12-20
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 14
; LENGTH: 172
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Gene Fusion
US-08-860-165-14

Query Match          100.0%; Score 56; DB 2; Length 172;
Best Local Similarity 100.0%; Pred. No. 0.071;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ISEYRHYCY 9
    |||||
Db 149 ISEYRHYCY 157

RESULT 11
US-09-359-382-12
; Sequence 12, Application US/09359382
; Patent No. 6306397
; GENERAL INFORMATION:
; APPLICANT: EDWARDS, Stirling John
; APPLICANT: COX, John Cooper
; APPLICANT: WEBB, Elizabeth Ann
; APPLICANT: FRAZER, Ian
; TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
; FILE REFERENCE: 017227/0148
; CURRENT APPLICATION NUMBER: US/09/359,382
; CURRENT FILING DATE: 1999-07-23
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; EARLIER APPLICATION NUMBER: US 08/860,165
; EARLIER FILING DATE: 1997-09-22
; EARLIER APPLICATION NUMBER: PCT/AU95/00868
; EARLIER FILING DATE: 1995-12-20
; EARLIER APPLICATION NUMBER: AU PN0157/94
; EARLIER FILING DATE: 1994-12-20
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 12
; LENGTH: 172
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-09-359-382-12

Query Match          100.0%; Score 56; DB 2; Length 172;
Best Local Similarity 100.0%; Pred. No. 0.071;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ISEYRHYCY 9
    |||||
Db 18 ISEYRHYCY 26

RESULT 12
US-09-359-382-14
; Sequence 14, Application US/09359382
; Patent No. 6306397
; GENERAL INFORMATION:
; APPLICANT: EDWARDS, Stirling John
; APPLICANT: COX, John Cooper
; APPLICANT: WEBB, Elizabeth Ann
; APPLICANT: FRAZER, Ian
; TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
; FILE REFERENCE: 017227/0148
; CURRENT APPLICATION NUMBER: US/09/359,382
; EARLIER FILING DATE: 1999-07-23
; EARLIER APPLICATION NUMBER: US 08/860,165
; EARLIER FILING DATE: 1997-09-22
; EARLIER APPLICATION NUMBER: PCT/AU95/00868
; EARLIER FILING DATE: 1995-12-20
; EARLIER APPLICATION NUMBER: AU PN0157/94
; EARLIER FILING DATE: 1994-12-20
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 14
; LENGTH: 172
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-09-359-382-14

Query Match          100.0%; Score 56; DB 2; Length 172;
Best Local Similarity 100.0%; Pred. No. 0.071;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ISEYRHYCY 9
    |||||
Db 149 ISEYRHYCY 157

RESULT 13
US-08-117-083-10
; Sequence 10, Application US/08117083
; Patent No. 5719054
; GENERAL INFORMATION:
; APPLICANT: Boursnell, Michael B.
; APPLICANT: Inglis, Stephen C.
; APPLICANT: Munro, Alan J.
; TITLE OF INVENTION: Recombinant Virus Vectors Encoding Human
; NUMBER OF SEQUENCES: 70
; CORRESPONDENCE ADDRESSES:
; ADDRESSEE: Walter H. Dreger
; STREET: 4 Embarcadero Center, Suite 3400
```

```
/ CITY: San Francisco
/ STATE: CA
/ COUNTRY: USA
/ ZIP: 94111
/ COMPUTER READABLE FORM:
/ MEDIUM TYPE: Floppy disk
/ COMPUTER: IBM PC compatible
/ OPERATING SYSTEM: PC-DOS/MS-DOS
/ SOFTWARE: Patentin Release #1.0, Version #1.25
/ CURRENT APPLICATION DATA:
/ APPLICATION NUMBER: US/08/117,083
/ FILING DATE: 10-SEP-1993
/ CLASSIFICATION: 435
/ ATTORNEY/AGENT INFORMATION:
/ NAME: Dreger, Walter H.
/ REGISTRATION NUMBER: 24,190
/ REFERENCE/DOCKET NUMBER: A-58783
/ TELECOMMUNICATION INFORMATION:
/ TELEPHONE: 415-781-1989
/ TELEFAX: 415-398-3249
/ TELER: 910 277299
/ INFORMATION FOR SEQ ID NO: 10:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 182 amino acids
/ TYPE: amino acid
/ STRANDEDNESS: single
/ TOPOLOGY: linear
/ MOLECULE TYPE: protein
/ FEATURE:
/ NAME/KEY: Protein
/ LOCATION: 1..182
/ OTHER INFORMATION: /note="Xaa refers to stop codon in
/ OTHER INFORMATION: the open reading frame."
US-08-117-083-10

Query Match 100.0%; Score 56; DB 1; Length 182;
Best Local Similarity 100.0%; Pred. No. 0.075;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ISEYRHYCY 9
Db 61 ISEYRHYCY 69

RESULT 14
US-09-462-993-1
/ Sequence 1, Application US/09462993
/ Patent No. 6884786
/ GENERAL INFORMATION:
/ APPLICANT: KIENY, Marie-Paule
/ APPLICANT: BALLOU, Jean-Marie
/ APPLICANT: BIZOUARNE, Nadine
/ TITLE OF INVENTION: ANTITUMORAL COMPOSITION BASED ON IMMUNOGENIC
/ FILE OF INVENTION: POLYPEPTIDE WITH MODIFIED CELL LOCATION
/ FILE REFERENCE: 017753-122
/ CURRENT APPLICATION NUMBER: US/09/462,993
/ CURRENT FILING DATE: 2000-04-17
/ PRIOR APPLICATION NUMBER: PCT/FR98/01576
/ PRIOR FILING DATE: 1998-07-17
/ PRIOR APPLICATION NUMBER: FR 97/09152
/ PRIOR FILING DATE: 1997-07-18
/ NUMBER OF SEQ ID NOS: 23
/ SOFTWARE: Patentin Ver. 2.2
/ SEQ ID NO 1
/ LENGTH: 243
/ TYPE: PRT
/ ORGANISM: Artificial Sequence
/ FEATURE:
/ OTHER INFORMATION: Description of Artificial Sequence: Derived from
/ OTHER INFORMATION: human papillomavirus, strain HPV-16, E6 protein
US-09-462-993-1
```

```
Query Match 100.0%; Score 56; DB 2; Length 243;
Best Local Similarity 100.0%; Pred. No. 0.098;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ISEYRHYCY 9
Db 108 ISEYRHYCY 116

RESULT 15
US-08-860-165-10
/ Sequence 10, Application US/08860165A
/ Patent No. 6004557
/ GENERAL INFORMATION:
/ APPLICANT: EDWARDS, Stirling John
/ APPLICANT: COX, John Cooper
/ APPLICANT: WEBB, Elizabeth Ann
/ APPLICANT: FRAZER, Ian
/ TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
/ FILE REFERENCE: 17227/130
/ CURRENT APPLICATION NUMBER: US/08/860,165A
/ CURRENT FILING DATE: 1997-09-22
/ EARLIER APPLICATION NUMBER: PCT/AU95/00868
/ EARLIER FILING DATE: 1995-12-20
/ EARLIER APPLICATION NUMBER: AU PNO157
/ EARLIER FILING DATE: 1994-12-20
/ NUMBER OF SEQ ID NOS: 15
/ SOFTWARE: Patentin Ver. 2.0
/ SEQ ID NO 10
/ LENGTH: 266
/ TYPE: PRT
/ ORGANISM: Artificial Sequence
/ FEATURE:
/ OTHER INFORMATION: Description of Artificial Sequence: Gene Fusion
US-08-860-165-10

Query Match 100.0%; Score 56; DB 2; Length 266;
Best Local Similarity 100.0%; Pred. No. 0.11;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ISEYRHYCY 9
Db 80 ISEYRHYCY 88

RESULT 16
US-09-359-382-10
/ Sequence 10, Application US/09359382
/ Patent No. 6306397
/ GENERAL INFORMATION:
/ APPLICANT: EDWARDS, Stirling John
/ APPLICANT: COX, John Cooper
/ APPLICANT: WEBB, Elizabeth Ann
/ APPLICANT: FRAZER, Ian
/ TITLE OF INVENTION: VARIANTS OF HUMAN PAPILLOMA VIRUS ANTIGENS
/ FILE REFERENCE: 017227/0148
/ CURRENT APPLICATION NUMBER: US/09/359,382
/ CURRENT FILING DATE: 1999-07-23
/ EARLIER APPLICATION NUMBER: US 08/860,165
/ EARLIER FILING DATE: 1997-09-22
/ EARLIER APPLICATION NUMBER: PCT/AU95/00868
/ EARLIER FILING DATE: 1995-12-20
/ EARLIER APPLICATION NUMBER: AU PNO157/94
/ EARLIER FILING DATE: 1994-12-20
/ NUMBER OF SEQ ID NOS: 27
/ SOFTWARE: Patentin Ver. 2.0
/ SEQ ID NO 10
/ LENGTH: 266
/ TYPE: PRT
/ ORGANISM: Human papillomavirus type 16
US-09-359-382-10

Query Match 100.0%; Score 56; DB 2; Length 266;
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Best Local Similarity 100.0%; Pred. No. 0.11;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ISEYRHYCY 9
|||||
Db 80 ISEYRHYCY 88

RESULT 17
US-09-367-309A-1
; Sequence 1, Application US/09367309A
; Patent No. 6428807
; GENERAL INFORMATION:
; APPLICANT: MACFARLAN, RODERICK I.
; APPLICANT: MALLIAROS, JIM
; TITLE OF INVENTION: CHELATING IMMUNOSTIMULATING COMPLEXES
; FILE REFERENCE: 017227/0149
; CURRENT FILING DATE: 1999-08-11
; PRIOR APPLICATION NUMBER: PCT/AU98/00080
; PRIOR FILING DATE: 1998-02-13
; PRIOR APPLICATION NUMBER: AU PO 5178
; PRIOR FILING DATE: 1997-02-19
; NUMBER OF SEQ ID NOS: 6
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
; LENGTH: 266
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-09-367-309A-1

Query Match 100.0%; Score 56; DB 2; Length 266;
Best Local Similarity 100.0%; Pred. No. 0.11;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ISEYRHYCY 9
|||||
Db 80 ISEYRHYCY 88

RESULT 18
US-09-485-885-4
; Sequence 4, Application US/09485885
; Patent No. 6342224
; GENERAL INFORMATION:
; APPLICANT: Bruck, Claudine
; APPLICANT: Cabazon Silva, Teresa
; APPLICANT: Delisse, Anne-Marie Eva Fernande
; APPLICANT: Gerard, Catherine Marie Chislaine
; APPLICANT: Lombardo-Bencheikh, Angela
; TITLE OF INVENTION: Vaccine
; FILE REFERENCE: B45107
; CURRENT APPLICATION NUMBER: US/09/485,885
; CURRENT FILING DATE: 2000-02-18
; PRIOR APPLICATION NUMBER: PCT/EP98/05285
; PRIOR FILING DATE: 1998-08-17
; PRIOR APPLICATION NUMBER: GB 9717953.5
; PRIOR FILING DATE: 1997-08-22
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 4
; LENGTH: 273
; TYPE: PRT
; ORGANISM: Homo sapien
US-09-485-885-4

Query Match 100.0%; Score 56; DB 2; Length 273;
Best Local Similarity 100.0%; Pred. No. 0.11;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ISEYRHYCY 9
|||||
Db 186 ISEYRHYCY 194

RESULT 19:
US-09-485-885-10
; Sequence 10, Application US/09485885
; Patent No. 6342224
; GENERAL INFORMATION:
; APPLICANT: Bruck, Claudine
; APPLICANT: Cabazon Silva, Teresa
; APPLICANT: Delisse, Anne-Marie Eva Fernande
; APPLICANT: Gerard, Catherine Marie Chislaine
; APPLICANT: Lombardo-Bencheikh, Angela
; TITLE OF INVENTION: Vaccine
; FILE REFERENCE: B45107
; CURRENT APPLICATION NUMBER: US/09/485,885
; CURRENT FILING DATE: 2000-02-18
; PRIOR APPLICATION NUMBER: PCT/EP98/05285
; PRIOR FILING DATE: 1998-08-17
; PRIOR APPLICATION NUMBER: GB 9717953.5
; PRIOR FILING DATE: 1997-08-22
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 10
; LENGTH: 292
; TYPE: PRT
; ORGANISM: Homo sapien
US-09-485-885-10

Query Match 100.0%; Score 56; DB 2; Length 292;
Best Local Similarity 100.0%; Pred. No. 0.12;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ISEYRHYCY 9
|||||
Db 205 ISEYRHYCY 213

RESULT 20
US-09-485-885-6
; Sequence 6, Application US/09485885
; Patent No. 6342224
; GENERAL INFORMATION:
; APPLICANT: Bruck, Claudine
; APPLICANT: Cabazon Silva, Teresa
; APPLICANT: Delisse, Anne-Marie Eva Fernande
; APPLICANT: Gerard, Catherine Marie Chislaine
; APPLICANT: Lombardo-Bencheikh, Angela
; TITLE OF INVENTION: Vaccine
; FILE REFERENCE: B45107
; CURRENT APPLICATION NUMBER: US/09/485,885
; CURRENT FILING DATE: 2000-02-18
; PRIOR APPLICATION NUMBER: PCT/EP98/05285
; PRIOR FILING DATE: 1998-08-17
; PRIOR APPLICATION NUMBER: GB 9717953.5
; PRIOR FILING DATE: 1997-08-22
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 6
; LENGTH: 371
; TYPE: PRT
; ORGANISM: Homo sapien
US-09-485-885-6

Query Match 100.0%; Score 56; DB 2; Length 371;
Best Local Similarity 100.0%; Pred. No. 0.15;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ISEYRHYCY 9
|||||
Db 186 ISEYRHYCY 194

RESULT 21

```
US-09-485-885-14
; Sequence 14, Application US/09485885
; Patent No. 6342224
; GENERAL INFORMATION:
; APPLICANT: Bruck, Claudine
; APPLICANT: Cabazon Silva, Teresa
; APPLICANT: Delisse, Anne-Marie Eva Bernande
; APPLICANT: Gerard, Catherine Marie Chistaline
; APPLICANT: Lombardo-Benchelkn, Angela
; TITLE OF INVENTION: Vaccine
; FILE REFERENCE: B45107
; CURRENT APPLICATION NUMBER: US/09/485,885
; CURRENT FILING DATE: 2000-02-18
; PRIOR APPLICATION NUMBER: PCT/EP98/05285
; PRIOR FILING DATE: 1998-08-17
; PRIOR APPLICATION NUMBER: GB 9717953.5
; PRIOR FILING DATE: 1997-08-22
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 14
; LENGTH: 390
; TYPE: PRT
; ORGANISM: Homo sapien
US-09-485-885-14

Query Match
Best Local Similarity 100.0%; Score 56; DB 2; Length 390;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ISEYRHVCY 9
DB 205 ISEYRHVCY 213

RESULT 22
US-09-701-080C-18
; Sequence 18, Application US/09701080C
; Patent No. 6864054
; GENERAL INFORMATION:
; APPLICANT: INSTITUTE OF MOLECULAR AND CELL BIOLOGY
; TITLE OF INVENTION: POLYPEPTIDES FROM CREB BINDING PROTEIN AND RELATED PROTEIN P300 F
; FILE REFERENCE: N73477C GCW
; CURRENT APPLICATION NUMBER: US/09/701,080C
; CURRENT FILING DATE: 2001-02-27
; PRIOR APPLICATION NUMBER: GB 9811303.8
; PRIOR FILING DATE: 1998-05-26
; PRIOR APPLICATION NUMBER: GB 9900157.0
; PRIOR FILING DATE: 1999-01-05
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 18
; LENGTH: 151
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-09-701-080C-18

Query Match
Best Local Similarity 92.9%; Score 52; DB 2; Length 151;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 SEYRHVCY 9
DB 74 SEYRHVCY 81

RESULT 23
US-08-159-339A-134
; Sequence 134, Application US/08159339A
; Patent No. 6037135
; GENERAL INFORMATION:
; APPLICANT: Kubo, Ralph T.
; APPLICANT: Grey, Howard M.
```

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APPLICANT: Sette, Alessandro
APPLICANT: Celis, Betteban
TITLE OF INVENTION: HLA Binding peptides and Their
TITLE OF INVENTION: Uses
NUMBER OF SEQUENCES: 1254
CORRESPONDENCE ADDRESS:
ADDRESSEE: Townsend and Townsend and Crew LLP
STREET: Two Embarcadero Center, Eighth Floor
CITY: San Francisco
STATE: CA
COUNTRY: USA
ZIP: 94111-3834
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSeq for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/159,339A
FILING DATE: 29-NOV-1993
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/926,666
FILING DATE: 07-AUG-1992
APPLICATION NUMBER: US 08/027,746
FILING DATE: 05-MAR-1993
APPLICATION NUMBER: US 08/103,396
FILING DATE: 06-AUG-1993
ATTORNEY/AGENT INFORMATION:
NAME: Weber, Ellen Lauver
REGISTRATION NUMBER: 32,762
REFERENCE/DOCKET NUMBER: 018623-005030US
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 576-0200
TELEFAX: (415) 576-0300
TELEX:
INFORMATION FOR SEQ ID NO: 134:
SEQUENCE CHARACTERISTICS:
LENGTH: 9 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-08-159-339A-134

Query Match
Best Local Similarity 83.9%; Score 47; DB 2; Length 9;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 ISEYRHVCY 9
DB 1 ISEYRHVCY 9

RESULT 24
US-09-454-071-6
; Sequence 6, Application US/09454071
; Patent No. 6673596
; GENERAL INFORMATION:
; APPLICANT: Sayler, Gary S.
; APPLICANT: Simpson, Michael L.
; APPLICANT: Applegate, Bruce M.
; APPLICANT: Ripp, Steven A.
; TITLE OF INVENTION: IN VIVO BIOSENSOR APPARATUS AND METHOD OF USE
; FILE REFERENCE: 4310.004300
; CURRENT APPLICATION NUMBER: US/09/454,071
; CURRENT FILING DATE: 1999-12-02
; EARLIER APPLICATION NUMBER: 60/110,684
; EARLIER FILING DATE: 1998-12-02
; NUMBER OF SEQ ID NOS: 7
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 6
; LENGTH: 370
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TYPE: PRT
ORGANISM: Xenorhabdus luminescens
US-09-454-071-6

Query Match 73.2%; Score 41; DB 2; Length 370;
Best Local Similarity 100.0%; Pred. No. 39;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3 EYRHYC 8
|||||
DB 54 EYRHYC 59

RESULT 25
US-08-159-339A-234
Sequence 234, Application US/08159339A
Patent No. 6037135
GENERAL INFORMATION:
APPLICANT: Kubo, Ralph T.
APPLICANT: Grey, Howard M.
APPLICANT: Sette, Alessandro
APPLICANT: Celis, Esben
TITLE OF INVENTION: HLA Binding peptides and Their
TITLE OF INVENTION: Uses
NUMBER OF SEQUENCES: 1254
CORRESPONDENCE ADDRESS:
ADDRESSEE: Townsend and Townsend and Crew LLP
STREET: Two Embarcadero Center, Eighth Floor
CITY: San Francisco
STATE: CA
COUNTRY: USA
ZIP: 94111-3834
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSeq for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/159,339A
FILING DATE: 29-NOV-1993
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/926,666
FILING DATE: 07-AUG-1992
APPLICATION NUMBER: US 08/027,746
FILING DATE: 05-MAR-1993
APPLICATION NUMBER: US 08/103,396
FILING DATE: 06-AUG-1993
ATTORNEY/AGENT INFORMATION:
NAME: Weber, Ellen Lauver
REGISTRATION NUMBER: 32,762
REFERENCE/DOCKET NUMBER: 018623-005030US
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 576-0200
TELEFAX: (415) 576-0300
TELEX:
INFORMATION FOR SEQ ID NO: 234:
SEQUENCE CHARACTERISTICS:
LENGTH: 9 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULAR TYPE: peptide
US-08-159-339A-234

Query Match 71.4%; Score 40; DB 2; Length 9;
Best Local Similarity 100.0%; Pred. No. 4.6e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ISEYRHY 7
|||||
DB 2 ISEYRHY 8

RESULT 26
US-08-159-339A-75
Sequence 75, Application US/08159339A
Patent No. 6037135

GENERAL INFORMATION:
APPLICANT: Kubo, Ralph T.
APPLICANT: Grey, Howard M.
APPLICANT: Sette, Alessandro
APPLICANT: Celis, Esben
TITLE OF INVENTION: HLA Binding peptides and Their
TITLE OF INVENTION: Uses
NUMBER OF SEQUENCES: 1254
CORRESPONDENCE ADDRESS:
ADDRESSEE: Townsend and Townsend and Crew LLP
STREET: Two Embarcadero Center, Eighth Floor
CITY: San Francisco
STATE: CA
COUNTRY: USA
ZIP: 94111-3834
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSeq for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/159,339A
FILING DATE: 29-NOV-1993
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/926,666
FILING DATE: 07-AUG-1992
APPLICATION NUMBER: US 08/027,746
FILING DATE: 05-MAR-1993
APPLICATION NUMBER: US 08/103,396
FILING DATE: 06-AUG-1993
ATTORNEY/AGENT INFORMATION:
NAME: Weber, Ellen Lauver
REGISTRATION NUMBER: 32,762
REFERENCE/DOCKET NUMBER: 018623-005030US
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 576-0200
TELEFAX: (415) 576-0300
TELEX:
INFORMATION FOR SEQ ID NO: 75:
SEQUENCE CHARACTERISTICS:
LENGTH: 10 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULAR TYPE: peptide
US-08-159-339A-75

Query Match 71.4%; Score 40; DB 2; Length 10;
Best Local Similarity 100.0%; Pred. No. 1.8;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ISEYRHY 7
|||||
DB 4 ISEYRHY 10

RESULT 27
US-08-159-339A-247
Sequence 247, Application US/08159339A
Patent No. 6037135

GENERAL INFORMATION:
APPLICANT: Kubo, Ralph T.
APPLICANT: Grey, Howard M.
APPLICANT: Sette, Alessandro
APPLICANT: Celis, Esben
TITLE OF INVENTION: HLA Binding peptides and Their
TITLE OF INVENTION: Uses

NUMBER OF SEQUENCES: 1254
CORRESPONDENCE ADDRESS:
ADDRESSEE: Townsend and Townsend and Crew LLP
STREET: Two Embarcadero Center, Eighth Floor
CITY: San Francisco
STATE: CA
COUNTRY: USA
ZIP: 94111-3834
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSeq for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/159,339A
FILING DATE: 29-NOV-1993
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/926,666
FILING DATE: 07-AUG-1992
APPLICATION NUMBER: US 08/027,746
FILING DATE: 05-MAR-1993
APPLICATION NUMBER: US 08/103,396
FILING DATE: 06-AUG-1993
ATTORNEY/AGENT INFORMATION:
NAME: Weber, Ellen Lauver
REGISTRATION NUMBER: 32,762
REFERENCE/DOCKET NUMBER: 018623-005030US
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 576-0200
TELEFAX: (415) 576-0300
TELEX:
INFORMATION FOR SEQ ID NO: 247:
SEQUENCE CHARACTERISTICS:
LENGTH: 9 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-08-159-339A-247

Query Match 69.6%; Score 39; DB 2; Length 9;
Best Local Similarity 85.7%; Pred. No. 4.6e+05;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 3 EYRHYCY 9
|||||
Db 1 EYRHYAY 7

RESULT 28
US-09-149-476-640
Sequence 640, Application US/09149476
Patent No. 6420526
GENERAL INFORMATION:
APPLICANT: Rosen et al.
TITLE OF INVENTION: 186 Human Secreted proteins
FILE REFERENCE: P2002PI
CURRENT APPLICATION NUMBER: US/09/149,476
CURRENT FILING DATE: 1998-09-08
EARLIER APPLICATION NUMBER: PCT/US98/04493
EARLIER FILING DATE: 1998-03-06
EARLIER APPLICATION NUMBER: 60/040,162
EARLIER FILING DATE: 1997-03-07
EARLIER APPLICATION NUMBER: 60/040,333
EARLIER FILING DATE: 1997-03-07
EARLIER APPLICATION NUMBER: 60/038,621
EARLIER FILING DATE: 1997-03-07
EARLIER APPLICATION NUMBER: 60/040,626
EARLIER FILING DATE: 1997-03-07
EARLIER APPLICATION NUMBER: 60/040,334
EARLIER FILING DATE: 1997-03-07
EARLIER APPLICATION NUMBER: 60/040,336

EARLIER FILING DATE: 1997-03-07
EARLIER APPLICATION NUMBER: 60/040,163
EARLIER FILING DATE: 1997-03-07
EARLIER APPLICATION NUMBER: 60/047,600
EARLIER FILING DATE: 1997-05-23
EARLIER APPLICATION NUMBER: 60/047,615
EARLIER FILING DATE: 1997-05-23
EARLIER APPLICATION NUMBER: 60/047,597
EARLIER FILING DATE: 1997-05-23
EARLIER APPLICATION NUMBER: 60/047,502
EARLIER FILING DATE: 1997-05-23
EARLIER APPLICATION NUMBER: 60/047,633
EARLIER FILING DATE: 1997-05-23
EARLIER APPLICATION NUMBER: 60/047,583
EARLIER FILING DATE: 1997-05-23
EARLIER APPLICATION NUMBER: 60/047,617
EARLIER FILING DATE: 1997-05-23
EARLIER APPLICATION NUMBER: 60/047,618
EARLIER FILING DATE: 1997-05-23
EARLIER APPLICATION NUMBER: 60/047,503
EARLIER FILING DATE: 1997-05-23
EARLIER APPLICATION NUMBER: 60/047,592
EARLIER FILING DATE: 1997-05-23
EARLIER APPLICATION NUMBER: 60/047,581
EARLIER FILING DATE: 1997-05-23
EARLIER APPLICATION NUMBER: 60/047,584
EARLIER FILING DATE: 1997-05-23
EARLIER APPLICATION NUMBER: 60/047,500
EARLIER FILING DATE: 1997-05-23
EARLIER APPLICATION NUMBER: 60/047,587
EARLIER FILING DATE: 1997-05-23
EARLIER APPLICATION NUMBER: 60/047,492
EARLIER FILING DATE: 1997-05-23
EARLIER APPLICATION NUMBER: 60/047,598
EARLIER FILING DATE: 1997-05-23
EARLIER APPLICATION NUMBER: 60/047,613
EARLIER FILING DATE: 1997-05-23
EARLIER APPLICATION NUMBER: 60/047,582
EARLIER FILING DATE: 1997-05-23
EARLIER APPLICATION NUMBER: 60/047,596
EARLIER FILING DATE: 1997-05-23
EARLIER APPLICATION NUMBER: 60/047,612
EARLIER FILING DATE: 1997-05-23
EARLIER APPLICATION NUMBER: 60/047,632
EARLIER FILING DATE: 1997-05-23
EARLIER APPLICATION NUMBER: 60/047,601
EARLIER FILING DATE: 1997-05-23
EARLIER APPLICATION NUMBER: 60/043,580
EARLIER FILING DATE: 1997-04-11
EARLIER APPLICATION NUMBER: 60/043,568
EARLIER FILING DATE: 1997-04-11
EARLIER APPLICATION NUMBER: 60/043,314
EARLIER FILING DATE: 1997-04-11
EARLIER APPLICATION NUMBER: 60/043,569
EARLIER FILING DATE: 1997-04-11
EARLIER APPLICATION NUMBER: 60/043,311
EARLIER FILING DATE: 1997-04-11
EARLIER APPLICATION NUMBER: 60/043,671
EARLIER FILING DATE: 1997-04-11
EARLIER APPLICATION NUMBER: 60/043,674
EARLIER FILING DATE: 1997-04-11
EARLIER APPLICATION NUMBER: 60/043,669
EARLIER FILING DATE: 1997-04-11
EARLIER APPLICATION NUMBER: 60/043,312
EARLIER FILING DATE: 1997-04-11
EARLIER APPLICATION NUMBER: 60/043,313
EARLIER FILING DATE: 1997-04-11
EARLIER APPLICATION NUMBER: 60/043,672
EARLIER FILING DATE: 1997-04-11
EARLIER APPLICATION NUMBER: 60/043,315
EARLIER FILING DATE: 1997-04-11
EARLIER APPLICATION NUMBER: 60/048,974
EARLIER FILING DATE: 1997-06-06

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EARLIER APPLICATION NUMBER: 60/056,886
EARLIER FILING DATE: 1997-08-22
EARLIER APPLICATION NUMBER: 60/056,877
EARLIER FILING DATE: 1997-08-22
EARLIER APPLICATION NUMBER: 60/056,889
EARLIER FILING DATE: 1997-08-22
EARLIER APPLICATION NUMBER: 60/056,893
EARLIER FILING DATE: 1997-08-22
EARLIER APPLICATION NUMBER: 60/056,630
EARLIER FILING DATE: 1997-08-22
EARLIER APPLICATION NUMBER: 60/056,878
EARLIER FILING DATE: 1997-08-22
EARLIER APPLICATION NUMBER: 60/056,662
EARLIER FILING DATE: 1997-08-22
EARLIER APPLICATION NUMBER: 60/056,872
EARLIER FILING DATE: 1997-08-22
EARLIER APPLICATION NUMBER: 60/056,882
EARLIER FILING DATE: 1997-08-22
EARLIER APPLICATION NUMBER: 60/056,637
EARLIER FILING DATE: 1997-08-22
EARLIER APPLICATION NUMBER: 60/056,903
EARLIER FILING DATE: 1997-08-22
EARLIER APPLICATION NUMBER: 60/056,888
EARLIER FILING DATE: 1997-08-22
EARLIER APPLICATION NUMBER: 60/056,879
EARLIER FILING DATE: 1997-08-22
EARLIER APPLICATION NUMBER: 60/056,880
EARLIER FILING DATE: 1997-08-22
EARLIER APPLICATION NUMBER: 60/056,894
EARLIER FILING DATE: 1997-08-22
EARLIER APPLICATION NUMBER: 60/056,911
EARLIER FILING DATE: 1997-08-22
EARLIER APPLICATION NUMBER: 60/056,636
EARLIER FILING DATE: 1997-08-22
EARLIER APPLICATION NUMBER: 60/056,874
EARLIER FILING DATE: 1997-08-22
EARLIER APPLICATION NUMBER: 60/056,910
EARLIER FILING DATE: 1997-08-22
EARLIER APPLICATION NUMBER: 60/056,864
EARLIER FILING DATE: 1997-08-22
EARLIER APPLICATION NUMBER: 60/056,631
EARLIER FILING DATE: 1997-08-22
EARLIER APPLICATION NUMBER: 60/056,845
EARLIER FILING DATE: 1997-08-22
EARLIER APPLICATION NUMBER: 60/056,892
EARLIER FILING DATE: 1997-08-22
EARLIER APPLICATION NUMBER: 60/057,761
EARLIER FILING DATE: 1997-08-22
EARLIER APPLICATION NUMBER: 60/047,595
EARLIER FILING DATE: 1997-05-23
EARLIER APPLICATION NUMBER: 60/047,599
EARLIER FILING DATE: 1997-05-23
EARLIER APPLICATION NUMBER: 60/047,588
EARLIER FILING DATE: 1997-05-23
EARLIER APPLICATION NUMBER: 60/047,585
EARLIER FILING DATE: 1997-05-23
EARLIER APPLICATION NUMBER: 60/047,586
EARLIER FILING DATE: 1997-05-23
EARLIER APPLICATION NUMBER: 60/047,590
EARLIER FILING DATE: 1997-05-23
EARLIER APPLICATION NUMBER: 60/047,594
EARLIER FILING DATE: 1997-05-23
EARLIER APPLICATION NUMBER: 60/047,589
EARLIER FILING DATE: 1997-05-23
EARLIER APPLICATION NUMBER: 60/047,593
EARLIER FILING DATE: 1997-05-23
EARLIER APPLICATION NUMBER: 60/047,614
EARLIER FILING DATE: 1997-05-23
EARLIER APPLICATION NUMBER: 60/043,578
EARLIER FILING DATE: 1997-04-11
EARLIER APPLICATION NUMBER: 60/043,576
EARLIER FILING DATE: 1997-04-11
EARLIER APPLICATION NUMBER: 60/047,501

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EARLIER FILING DATE: 1997-05-23
EARLIER APPLICATION NUMBER: 60/043,670
EARLIER FILING DATE: 1997-04-11
EARLIER APPLICATION NUMBER: 60/056,632
EARLIER FILING DATE: 1997-08-22
EARLIER APPLICATION NUMBER: 60/056,664
EARLIER FILING DATE: 1997-08-22
EARLIER APPLICATION NUMBER: 60/056,876
EARLIER FILING DATE: 1997-08-22
EARLIER APPLICATION NUMBER: 60/056,881
EARLIER FILING DATE: 1997-08-22
EARLIER APPLICATION NUMBER: 60/056,909
EARLIER FILING DATE: 1997-08-22
EARLIER APPLICATION NUMBER: 60/056,875
EARLIER FILING DATE: 1997-08-22
EARLIER APPLICATION NUMBER: 60/056,862
EARLIER FILING DATE: 1997-08-22
EARLIER APPLICATION NUMBER: 60/056,887
EARLIER FILING DATE: 1997-08-22
EARLIER APPLICATION NUMBER: 60/056,908
EARLIER FILING DATE: 1997-08-22
EARLIER APPLICATION NUMBER: 60/048,964
EARLIER FILING DATE: 1997-06-06
EARLIER APPLICATION NUMBER: 60/057,650
EARLIER FILING DATE: 1997-09-05
EARLIER APPLICATION NUMBER: 60/056,884
EARLIER FILING DATE: 1997-08-22
EARLIER APPLICATION NUMBER: 60/057,669
EARLIER FILING DATE: 1997-09-05
EARLIER APPLICATION NUMBER: 60/049,610
EARLIER FILING DATE: 1997-06-13
EARLIER APPLICATION NUMBER: 60/061,060
EARLIER FILING DATE: 1997-10-02

```

```

Query Match          67.9%; Score 38; DB 2; Length 28;
Best Local Similarity 75.0%; Pred. No. 10;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

```

```

QY      1 ISEYRHYC 8
      ||: |||
Db      4 ISQLRHYC 11

```

```

RESULT 29
US-09-583-110-4238
; Sequence 4238, Application US/09583110
; Patent No. 6699703
; GENERAL INFORMATION:
; APPLICANT: Lynn Doucette-Stamm et al.
; TITLE OF INVENTION: Nucleic Acid and Amino Acid Sequences Relating to Streptococcus
; FILE REFERENCE: PATH00-07A
; CURRENT APPLICATION NUMBER: US/09/583,110
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: US 09/107,433
; PRIOR FILING DATE: 1998-06-30
; PRIOR APPLICATION NUMBER: US 60/085,131
; PRIOR FILING DATE: 1998-05-12
; PRIOR APPLICATION NUMBER: US 60/051,553
; PRIOR FILING DATE: 1997-07-02
; NUMBER OF SEQ ID NOS: 5322
; SEQ ID NO 4238
; LENGTH: 143
; TYPE: PRT
; ORGANISM: Streptococcus pneumoniae
US-09-583-110-4238

```

```

Query Match          67.9%; Score 38; DB 2; Length 143;
Best Local Similarity 75.0%; Pred. No. 48;
Matches 6; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

```

```

QY      2 SEYRHYCY 9
      ||| |||

```

Db 136 SPYRYCY 143

RESULT 30
US-09-270-767-33888
; Sequence 33888, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
; APPLICANT: Homburger et al.
; TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
; FILE REFERENCE: File Reference: 7326-094
; CURRENT APPLICATION NUMBER: US/09/270,767
; CURRENT FILING DATE: 1999-03-17
; NUMBER OF SEQ ID NOS: 62517
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 33888
; LENGTH: 124
; TYPE: PRT
; ORGANISM: Drosophila melanogaster
; FEATURE:
; OTHER INFORMATION: Xaa means any amino acid
US-09-270-767-33888

Query Match 66.1%; Score 37; DB 2; Length 124;
Best Local Similarity 75.0%; Pred. No. 60;
Matches 6; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 ISEYRHYC 8
| | | | |
| | | | |
Db 56 IVEYTHYC 63

RESULT 31
US-09-248-796A-24718
; Sequence 24718, Application US/09248796A
; Patent No. 6747137
; GENERAL INFORMATION:
; APPLICANT: Keith Weinstein et al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDA ALBICAN
; FILE REFERENCE: 107196.132
; CURRENT APPLICATION NUMBER: US/09/248,796A
; CURRENT FILING DATE: 1999-02-12
; PRIOR APPLICATION NUMBER: US 60/074,725
; PRIOR FILING DATE: 1998-02-13
; PRIOR APPLICATION NUMBER: US 60/096,409
; PRIOR FILING DATE: 1998-08-13
; NUMBER OF SEQ ID NOS: 28208
; SEQ ID NO 24718
; LENGTH: 63
; TYPE: PRT
; ORGANISM: Candida albicans
US-09-248-796A-24718

Query Match 64.3%; Score 36; DB 2; Length 63;
Best Local Similarity 100.0%; Pred. No. 46;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 5 RHVYCY 9
| | | | |
| | | | |
Db 17 RHVYCY 21

RESULT 32
US-09-248-796A-22612
; Sequence 22612, Application US/09248796A
; Patent No. 6747137
; GENERAL INFORMATION:
; APPLICANT: Keith Weinstein et al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDA ALBICAN
; FILE REFERENCE: 107196.132
; CURRENT APPLICATION NUMBER: US/09/248,796A

; CURRENT FILING DATE: 1999-02-12
; PRIOR APPLICATION NUMBER: US 60/074,725
; PRIOR FILING DATE: 1998-02-13
; PRIOR APPLICATION NUMBER: US 60/096,409
; PRIOR FILING DATE: 1998-08-13
; NUMBER OF SEQ ID NOS: 28208
; SEQ ID NO 22612
; LENGTH: 75
; TYPE: PRT
; ORGANISM: Candida albicans
US-09-248-796A-22612

Query Match 64.3%; Score 36; DB 2; Length 75;
Best Local Similarity 55.6%; Pred. No. 54;
Matches 5; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 1 ISEYRHYCY 9
| | | | |
| | | | |
Db 56 VVEYNNYCY 64

RESULT 33
US-09-489-039A-13995
; Sequence 13995, Application US/09489039A
; Patent No. 6610836
; GENERAL INFORMATION:
; APPLICANT: Gary Breton et. al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO KLEBSIELLA
; FILE REFERENCE: 2709.2004001
; CURRENT APPLICATION NUMBER: US/09/489,039A
; CURRENT FILING DATE: 2000-01-27
; PRIOR APPLICATION NUMBER: US 60/117,747
; PRIOR FILING DATE: 1999-01-29
; NUMBER OF SEQ ID NOS: 14342
; SEQ ID NO 13995
; LENGTH: 169
; TYPE: PRT
; ORGANISM: Klebsiella pneumoniae
US-09-489-039A-13995

Query Match 64.3%; Score 36; DB 2; Length 169;
Best Local Similarity 83.3%; Pred. No. 1.2e+02;
Matches 5; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 3 EYRHHC 8
| | | | |
| | | | |
Db 83 EYRHHC 88

RESULT 34
US-09-099-041A-11
; Sequence 11, Application US/09099041A
; Patent No. 6340576
; GENERAL INFORMATION:
; APPLICANT: Bertin, John
; TITLE OF INVENTION: NOVEL MOLECULES OF THE CARD-RELATED
; FILE REFERENCE: 07334-076001
; CURRENT APPLICATION NUMBER: US/09/099,041A
; CURRENT FILING DATE: 1998-06-17
; PRIOR APPLICATION NUMBER: 09/019,942
; PRIOR FILING DATE: 1998-02-06
; NUMBER OF SEQ ID NOS: 37
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 11
; LENGTH: 200
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-099-041A-11

Query Match 64.3%; Score 36; DB 2; Length 200;
Best Local Similarity 66.7%; Pred. No. 1.4e+02;

Matches 4; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 4 YRHVCY 9
:|||||

Db 58 FKHVCY 63

RESULT 35
US-09-245-281-11

; Sequence 11, Application US/09245281

; Patent No. 6369196

; GENERAL INFORMATION:

; APPLICANT: Bertin, John

; TITLE OF INVENTION: NOVEL MOLECULES OF THE CARD-RELATED PROTEIN FAMILY

; FILE REFERENCE: 07334/118001

; CURRENT APPLICATION NUMBER: US/09/245,281

; PRIOR FILING DATE: 1999-02-05 US 09/207,359

; EARLIER APPLICATION NUMBER: US 09/12-08

; EARLIER FILING DATE: 1998-06-17

; EARLIER APPLICATION NUMBER: US 09/019,942

; EARLIER FILING DATE: 1998-02-06

; SOFTWARE: FastSeq for Windows Version 4.0

; SEQ ID NO 11

; LENGTH: 200

; TYPE: PRT

; ORGANISM: Homo sapiens

US-09-245-281-11

QY 4 YRHVCY 9
:|||||

Db 58 FKHVCY 63

RESULT 36
US-09-207-359B-11

; Sequence 11, Application US/09207359B

; Patent No. 6469140

; GENERAL INFORMATION:

; APPLICANT: Bertin, John

; TITLE OF INVENTION: NOVEL MOLECULES OF THE CARD-RELATED

; FILE REFERENCE: 07334-112001

; CURRENT APPLICATION NUMBER: US/09/207,359B

; PRIOR FILING DATE: 1998-12-08 US 09/099,041

; PRIOR APPLICATION NUMBER: US 09/019,942

; PRIOR FILING DATE: 1998-02-06

; NUMBER OF SEQ ID NOS: 47

; SOFTWARE: FastSeq for Windows Version 4.0

; SEQ ID NO 11

; LENGTH: 200

; TYPE: PRT

; ORGANISM: Homo sapiens

US-09-207-359B-11

Query Match 64.3%; Score 36; DB 2; Length 200;
Best Local Similarity 66.7%; Pred. No. 1.4e+02;
Matches 4; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 4 YRHVCY 9
:|||||

Db 58 FKHVCY 63

RESULT 37
US-09-340-620A-11

; Sequence 11, Application US/09340620A

; Patent No. 6482933

; GENERAL INFORMATION:

; APPLICANT: Bertin, John

; TITLE OF INVENTION: NOVEL MOLECULES OF THE CARD-RELATED PROTEIN FAMILY AND USES THEREOF

; FILE REFERENCE: 07334-124001

; CURRENT APPLICATION NUMBER: US/09/340,620A

; PRIOR FILING DATE: 1999-06-28

; PRIOR APPLICATION NUMBER: US 09/245,281

; PRIOR FILING DATE: 1999-02-05

; PRIOR APPLICATION NUMBER: US 09/207,359

; PRIOR FILING DATE: 1998-12-08

; PRIOR APPLICATION NUMBER: US 09/099,041

; PRIOR FILING DATE: 1998-06-17

; PRIOR APPLICATION NUMBER: US 09/019,942

; PRIOR FILING DATE: 1998-02-06

; NUMBER OF SEQ ID NOS: 71

; SOFTWARE: FastSeq for Windows Version 4.0

; SEQ ID NO 11

; LENGTH: 200

; TYPE: PRT

; ORGANISM: Homo sapiens

US-09-340-620A-11

Query Match 64.3%; Score 36; DB 2; Length 200;
Best Local Similarity 66.7%; Pred. No. 1.4e+02;
Matches 4; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 4 YRHVCY 9
:|||||

Db 58 FKHVCY 63

RESULT 38
US-09-865-364-11

; Sequence 11, Application US/09865364

; Patent No. 6613521

; GENERAL INFORMATION:

; APPLICANT: Bertin, John

; TITLE OF INVENTION: NOVEL MOLECULES OF THE CARD-RELATED

; FILE REFERENCE: 07334-112001

; CURRENT APPLICATION NUMBER: US/09/865,364

; PRIOR FILING DATE: 2001-05-25

; PRIOR APPLICATION NUMBER: US 09/207,359

; PRIOR FILING DATE: 1998-12-08

; PRIOR APPLICATION NUMBER: US 09/099,041

; PRIOR FILING DATE: 1998-06-17

; PRIOR APPLICATION NUMBER: US 09/019,942

; PRIOR FILING DATE: 1998-02-06

; NUMBER OF SEQ ID NOS: 47

; SOFTWARE: FastSeq for Windows Version 4.0

; SEQ ID NO 11

; LENGTH: 200

; TYPE: PRT

; ORGANISM: Homo sapiens

US-09-865-364-11

Query Match 64.3%; Score 36; DB 2; Length 200;
Best Local Similarity 66.7%; Pred. No. 1.4e+02;
Matches 4; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 4 YRHVCY 9
:|||||

Db 58 FKHVCY 63

RESULT 39
US-09-728-721-11

; Sequence 11, Application US/09728721

; Patent No. 6869775

```

; GENERAL INFORMATION:
; APPLICANT: Berlin, John
; TITLE OF INVENTION: NOVEL MOLECULES OF THE CARD-RELATED PROTEIN FAMILY AND USES THERE
; FILE REFERENCE: 07334-124001
; CURRENT APPLICATION NUMBER: US/09/728,721
; PRIOR FILING DATE: 2000-12-01
; PRIOR APPLICATION NUMBER: 09/340,620
; PRIOR FILING DATE: 1999-06-28
; PRIOR APPLICATION NUMBER: US 09/207,359
; PRIOR FILING DATE: 1998-12-08
; PRIOR APPLICATION NUMBER: US 09/099,041
; PRIOR FILING DATE: 1998-06-17
; PRIOR APPLICATION NUMBER: US 09/019,942
; PRIOR FILING DATE: 1998-02-06
; NUMBER OF SEQ ID NOS: 71
; SOFTWARE: PaeSERO for Windows Version 4.0
; SEQ ID NO 11
; LENGTH: 200
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-728-721-11

Query Match          64.3%; Score 36; DB 2; Length 200;
Best Local Similarity 66.7%; Pred. No. 1.4e+02;
Matches 4; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY      4 YRRYCY 9
       ::|||
Db      58 FRRYCY 63

RESULT 40
US-09-388-221B-20
; Sequence 20, Application US/09388221B
; Patent No. 6818750
; GENERAL INFORMATION:
; APPLICANT: Reed, John C.
; TITLE OF INVENTION: NO. 6818750e1 Card Proteins Involved in Cell Death Regulation
; FILE REFERENCE: P-LJ 3650
; CURRENT APPLICATION NUMBER: US/09/388,221B
; CURRENT FILING DATE: 1999-09-01
; NUMBER OF SEQ ID NOS: 30
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 20
; LENGTH: 212
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-388-221B-20

Query Match          64.3%; Score 36; DB 2; Length 212;
Best Local Similarity 66.7%; Pred. No. 1.5e+02;
Matches 4; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY      4 YRRYCY 9
       ::|||
Db      59 FRRYCY 64

RESULT 41
US-09-134-000C-3467
; Sequence 3467, Application US/09134000C
; Patent No. 6617156
; GENERAL INFORMATION:
; APPLICANT: Lynn Doucette-Stamm et al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO
; TITLE OF INVENTION: ENTEROCOCCUS FAECALIS FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 032796-032
; CURRENT APPLICATION NUMBER: US/09/134,000C
; CURRENT FILING DATE: 1998-08-13
; PRIOR APPLICATION NUMBER: US 60/055,778
; PRIOR FILING DATE: 1997-08-15
; NUMBER OF SEQ ID NOS: 6812
; SOFTWARE: PatentIn version 3.1
```

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; SEQ ID NO 3467
; LENGTH: 238
; TYPE: PRT
; ORGANISM: Enterococcus faecalis
US-09-134-000C-3467

Query Match          64.3%; Score 36; DB 2; Length 238;
Best Local Similarity 85.7%; Pred. No. 1.6e+02;
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY      1 ISEYRHY 7
       |||||
Db      36 ISEYRHF 42

RESULT 42
US-08-469-260A-42
; Sequence 42, Application US/08469260A
; Patent No. 6451578
; GENERAL INFORMATION:
; APPLICANT: JOHN N. SIMONS
; APPLICANT: TAMI J. PILOT-MATIAS
; APPLICANT: GEORGE J. DAMSON
; APPLICANT: GEORGE G. SCHLAUDER
; APPLICANT: SURESH M. DESAI
; APPLICANT: THOMAS P. LEARY
; APPLICANT: ANTHONY SCOTT MUEHRHOFF
; APPLICANT: JAMES C. ERKER
; APPLICANT: SHERI L. BUTJK
; APPLICANT: ISA K. MUSHAMMAR
; TITLE OF INVENTION: NON-A, NON-B, NON-C, NON-D, NON-E HEPATITIS
; TITLE OF INVENTION: REAGENTS AND METHODS FOR THEIR USE
; NUMBER OF SEQUENCES: 716
; CORRESPONDENCE ADDRESSES:
; ADDRESSEE: ABBOTT LABORATORIES D377/AP6D
; STREET: 100 ABBOTT PARK ROAD
; CITY: ABBOTT PARK
; STATE: IL
; COUNTRY: USA
; ZIP: 60064-3500
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/469,260A
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/08/424,550
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: FOREMSKI, PRISCILLA E.
; REGISTRATION NUMBER: 33,207
; REFERENCE/DOCKET NUMBER: 5527.PC.01
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 708-937-6365
; TELEFAX: 708-938-2623
; INFORMATION FOR SEQ ID NO: 42:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 245 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-469-260A-42

Query Match          64.3%; Score 36; DB 2; Length 245;
Best Local Similarity 100.0%; Pred. No. 1.7e+02;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      5 RHYCY 9
```

Db 63 RHVY 67

RESULT 43
US-08-488-446-42

Sequence 42, Application US/08488446

Patent No. 6558898

GENERAL INFORMATION:

APPLICANT: JOHN N. SIMONS

APPLICANT: TAMU J. PILOT-MATIAS

APPLICANT: GEORGE J. DAWSON

APPLICANT: GEORGE M. SCHLAUDER

APPLICANT: SURESH M. DESAI

APPLICANT: THOMAS P. LEARY

APPLICANT: ANTHONY SCOTT MUEHRHOFF

APPLICANT: JAMES C. ERKER

APPLICANT: SHERI L. BUIJK

APPLICANT: ISA K. MUSHAWAR

TITLE OF INVENTION: NON-A, NON-B, NON-C, NON-D, NON-E HEPATITIS

REAGENTS AND METHODS FOR THEIR USE

NUMBER OF SEQUENCES: 716

CORRESPONDENCE ADDRESS:

ADDRESSER: ABBOTT LABORATORIES D377/ABED

STREET: 100 ABBOTT PARK ROAD

CITY: ABBOTT PARK

STATE: IL

COUNTRY: USA

ZIP: 60064-3500

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patent in Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/488,446

FILING DATE:

CLASSIFICATION:

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US/08/424,550

FILING DATE:

ATTORNEY/AGENT INFORMATION:

NAME: FOREMSKI, PRISCILLA E.

REGISTRATION NUMBER: 33,207

REFERENCE/DOCKET NUMBER: 5527.PC.01

TELECOMMUNICATION INFORMATION:

TELEPHONE: 708-937-6365

TELEFAX: 708-938-2623

INFORMATION FOR SEQ ID NO: 42:

SEQUENCE CHARACTERISTICS:

LENGTH: 245 amino acids

TYPE: amino acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: protein

US-08-488-446-42

Query Match 64.3%; Score 36; DB 2; Length 245;

Best Local Similarity 100.0%; Pred. NO. 1.7e+02;

Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Db 63 RHVY 67

RESULT 44

US-08-467-344A-42

Sequence 42, Application US/08467344A

Patent No. 6586568

GENERAL INFORMATION:

APPLICANT: JOHN N. SIMONS

APPLICANT: TAMU J. PILOT-MATIAS

APPLICANT: GEORGE J. DAWSON

APPLICANT: GEORGE M. SCHLAUDER

APPLICANT: SURESH M. DESAI

APPLICANT: THOMAS P. LEARY

APPLICANT: ANTHONY SCOTT MUEHRHOFF

APPLICANT: JAMES C. ERKER

APPLICANT: SHERI L. BUIJK

APPLICANT: ISA K. MUSHAWAR

TITLE OF INVENTION: NON-A, NON-B, NON-C, NON-D, NON-E HEPATITIS

REAGENTS AND METHODS FOR THEIR USE

NUMBER OF SEQUENCES: 716

CORRESPONDENCE ADDRESS:

ADDRESSER: ABBOTT LABORATORIES D377/ABED

STREET: 100 ABBOTT PARK ROAD

CITY: ABBOTT PARK

STATE: IL

COUNTRY: USA

ZIP: 60064-3500

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patent in Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/467,344A

FILING DATE: 07-Jun-1995

CLASSIFICATION: <Unknown>

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 08/424,550

FILING DATE: <Unknown>

ATTORNEY/AGENT INFORMATION:

NAME: FOREMSKI, PRISCILLA E.

REGISTRATION NUMBER: 33,207

REFERENCE/DOCKET NUMBER: 5527.PC.01

TELECOMMUNICATION INFORMATION:

TELEPHONE: 708-937-6365

TELEFAX: 708-938-2623

INFORMATION FOR SEQ ID NO: 42:

SEQUENCE CHARACTERISTICS:

LENGTH: 245 amino acids

TYPE: amino acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: protein

SEQUENCE DESCRIPTION: SEQ ID NO: 42:

US-08-467-344A-42

Query Match 64.3%; Score 36; DB 2; Length 245;

Best Local Similarity 100.0%; Pred. NO. 1.7e+02;

Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Db 63 RHVY 67

RESULT 45

US-08-424-550B-42

Sequence 42, Application US/08424550B

Patent No. 6720166

GENERAL INFORMATION:

APPLICANT: JOHN N. SIMONS

APPLICANT: TAMU J. PILOT-MATIAS

APPLICANT: GEORGE J. DAWSON

APPLICANT: GEORGE M. SCHLAUDER

APPLICANT: SURESH M. DESAI

APPLICANT: THOMAS P. LEARY

APPLICANT: ANTHONY SCOTT MUEHRHOFF

APPLICANT: JAMES C. ERKER

APPLICANT: SHERI L. BUIJK

APPLICANT: ISA K. MUSHAWAR

TITLE OF INVENTION: NON-A, NON-B, NON-C, NON-D, NON-E HEPATITIS

REAGENTS AND METHODS FOR THEIR USE

NUMBER OF SEQUENCES: 716

CORRESPONDENCE ADDRESS:

ADDRESSER: ABBOTT LABORATORIES D377/ABED

STREET: 100 ABBOTT PARK ROAD

CITY: ABBOTT PARK

STATE: IL

COUNTRY: USA

ZIP: 60064-3500

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patent in Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/467,344A

FILING DATE: 07-Jun-1995

CLASSIFICATION: <Unknown>

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 08/424,550

FILING DATE: <Unknown>

ATTORNEY/AGENT INFORMATION:

NAME: FOREMSKI, PRISCILLA E.

REGISTRATION NUMBER: 33,207

REFERENCE/DOCKET NUMBER: 5527.PC.01

TELECOMMUNICATION INFORMATION:

TELEPHONE: 708-937-6365

TELEFAX: 708-938-2623

INFORMATION FOR SEQ ID NO: 42:

SEQUENCE CHARACTERISTICS:

LENGTH: 245 amino acids

TYPE: amino acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: protein

SEQUENCE DESCRIPTION: SEQ ID NO: 42:

US-08-467-344A-42

Query Match 64.3%; Score 36; DB 2; Length 245;

Best Local Similarity 100.0%; Pred. NO. 1.7e+02;

Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Db 63 RHVY 67

RESULT 46

US-08-467-344A-42

Sequence 42, Application US/08467344A

Patent No. 6586568

GENERAL INFORMATION:

APPLICANT: JOHN N. SIMONS

APPLICANT: TAMU J. PILOT-MATIAS

APPLICANT: GEORGE J. DAWSON

APPLICANT: GEORGE M. SCHLAUDER

APPLICANT: SURESH M. DESAI

APPLICANT: THOMAS P. LEARY

APPLICANT: ANTHONY SCOTT MUEHRHOFF

APPLICANT: JAMES C. ERKER

APPLICANT: SHERI L. BUIJK

APPLICANT: ISA K. MUSHAWAR

TITLE OF INVENTION: NON-A, NON-B, NON-C, NON-D, NON-E HEPATITIS

REAGENTS AND METHODS FOR THEIR USE

NUMBER OF SEQUENCES: 716

CORRESPONDENCE ADDRESS:

ADDRESSER: ABBOTT LABORATORIES D377/ABED

STREET: 100 ABBOTT PARK ROAD

CITY: ABBOTT PARK

STATE: IL

COUNTRY: USA

ZIP: 60064-3500

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patent in Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/467,344A

FILING DATE: 07-Jun-1995

CLASSIFICATION: <Unknown>

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 08/424,550

FILING DATE: <Unknown>

ATTORNEY/AGENT INFORMATION:

NAME: FOREMSKI, PRISCILLA E.

REGISTRATION NUMBER: 33,207

REFERENCE/DOCKET NUMBER: 5527.PC.01

TELECOMMUNICATION INFORMATION:

TELEPHONE: 708-937-6365

TELEFAX: 708-938-2623

INFORMATION FOR SEQ ID NO: 42:

SEQUENCE CHARACTERISTICS:

LENGTH: 245 amino acids

TYPE: amino acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: protein

SEQUENCE DESCRIPTION: SEQ ID NO: 42:

US-08-467-344A-42

Query Match 64.3%; Score 36; DB 2; Length 245;

Best Local Similarity 100.0%; Pred. NO. 1.7e+02;

Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Db 63 RHVY 67

RESULT 47

US-08-467-344A-42

Sequence 42, Application US/08467344A

Patent No. 6586568

GENERAL INFORMATION:

APPLICANT: JOHN N. SIMONS

APPLICANT: TAMU J. PILOT-MATIAS

APPLICANT: GEORGE J. DAWSON

APPLICANT: GEORGE M. SCHLAUDER

APPLICANT: SURESH M. DESAI

APPLICANT: THOMAS P. LEARY

APPLICANT: ANTHONY SCOTT MUEHRHOFF

APPLICANT: JAMES C. ERKER

APPLICANT: SHERI L. BUIJK

APPLICANT: ISA K. MUSHAWAR

TITLE OF INVENTION: NON-A, NON-B, NON-C, NON-D, NON-E HEPATITIS

REAGENTS AND METHODS FOR THEIR USE

NUMBER OF SEQUENCES: 716

CORRESPONDENCE ADDRESS:

ADDRESSER: ABBOTT LABORATORIES D377/ABED

STREET: 100 ABBOTT PARK ROAD

CITY: ABBOTT PARK

STATE: IL

COUNTRY: USA

ZIP: 60064-3500

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patent in Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/467,344A

FILING DATE: 07-Jun-1995

CLASSIFICATION: <Unknown>

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 08/424,550

FILING DATE: <Unknown>

ATTORNEY/AGENT INFORMATION:

NAME: FOREMSKI, PRISCILLA E.

REGISTRATION NUMBER: 33,207

REFERENCE/DOCKET NUMBER: 5527.PC.01

TELECOMMUNICATION INFORMATION:

TELEPHONE: 708-937-6365

TELEFAX: 708-938-2623

INFORMATION FOR SEQ ID NO: 42:

SEQUENCE CHARACTERISTICS:

LENGTH: 245 amino acids

TYPE: amino acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: protein

SEQUENCE DESCRIPTION: SEQ ID NO: 42:

US-08-467-344A-42

Query Match 64.3%; Score 36; DB 2; Length 245;

Best Local Similarity 100.0%; Pred. NO. 1.7e+02;

Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Db 63 RHVY 67

RESULT 48

US-08-467-344A-42

Sequence 42, Application US/08467344A

Patent No. 6586568

GENERAL INFORMATION:

APPLICANT: JOHN N. SIMONS

APPLICANT: TAMU J. PILOT-MATIAS

APPLICANT: GEORGE J. DAWSON

APPLICANT: GEORGE M. SCHLAUDER

APPLICANT: SURESH M. DESAI

APPLICANT: THOMAS P. LEARY

APPLICANT: ANTHONY SCOTT MUEHRHOFF

APPLICANT: JAMES C. ERKER

APPLICANT: SHERI L. BUIJK

APPLICANT: ISA K. MUSHAWAR

TITLE OF INVENTION: NON-A, NON-B, NON-C, NON-D, NON-E HEPATITIS

REAGENTS AND METHODS FOR THEIR USE

NUMBER OF SEQUENCES: 716

CORRESPONDENCE ADDRESS:

NUMBER OF SEQUENCES: 716
CORRESPONDENCE ADDRESS:
ADDRESSEE: ABBOTT LABORATORIES D377/AB6D
STREET: 100 ABBOTT PARK ROAD
CITY: ABBOTT PARK
STATE: IL
COUNTRY: USA
ZIP: 60064-3500
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/424,550B
FILING DATE:
CLASSIFICATION: 435435
ATTORNEY/AGENT INFORMATION:
NAME: FOREMSKI, PRISCILLA E.
REGISTRATION NUMBER: 33,207
REFERENCE/DOCKET NUMBER: 5527.PC.01
TELECOMMUNICATION INFORMATION:
TELEPHONE: 708-937-6365
TELEFAX: 708-938-2623
INFORMATION FOR SEQ ID NO: 42:
SEQUENCE CHARACTERISTICS:
LENGTH: 245 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-424-550B-42

Query Match 64.3%; Score 36; DB 2; Length 245;
Best Local Similarity 100.0%; Pred. No. 1.7e+02;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 5 RHYCY 9
DB 63 RHYCY 67

RESULT 46
US-10-014-269-30
Sequence 30, Application US/10014269
Patent No. 6835815
GENERAL INFORMATION:
APPLICANT: Nunez, Gabriel
APPLICANT: Inohara, Naohiro
APPLICANT: Ogur, Yasunori
TITLE OF INVENTION: NOD2 Nucleic Acids and Proteins
FILE REFERENCE: UM-06645
CURRENT APPLICATION NUMBER: US/10/014,269
CURRENT FILING DATE: 2001-10-26
NUMBER OF SEQ ID NOS: 52
SOFTWARE: Patentin version 3.1
SEQ ID NO 30
LENGTH: 320
TYPE: PRT
ORGANISM: Homo sapiens
US-10-014-269-30

Query Match 64.3%; Score 36; DB 2; Length 320;
Best Local Similarity 66.7%; Pred. No. 2.2e+02;
Matches 4; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 4 YRHYCY 9
DB 85 RHYCY 90

RESULT 47
US-10-002-974-30

Sequence 30, Application US/10002974
Patent No. 6858391
GENERAL INFORMATION:
APPLICANT: Nunez, Gabriel
APPLICANT: Inohara, Naohiro
APPLICANT: Ogur, Yasunori
APPLICANT: Cho, Judy
APPLICANT: Nicolae, Dan L
APPLICANT: Bonen, Denise
TITLE OF INVENTION: NOD2 Nucleic Acids and Proteins
FILE REFERENCE: UM-06646
CURRENT APPLICATION NUMBER: US/10/002,974
CURRENT FILING DATE: 2001-10-26
NUMBER OF SEQ ID NOS: 99
SOFTWARE: Patentin version 3.1
SEQ ID NO 30
LENGTH: 320
TYPE: PRT
ORGANISM: Homo sapiens
US-10-002-974-30

Query Match 64.3%; Score 36; DB 2; Length 320;
Best Local Similarity 66.7%; Pred. No. 2.2e+02;
Matches 4; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 4 YRHYCY 9
DB 85 RHYCY 90

RESULT 48
US-09-442-349A-4
Sequence 4, Application US/09442349A
Patent No. 6462178
GENERAL INFORMATION:
APPLICANT: Wong, Yung H
TITLE OF INVENTION: G Protein
FILE REFERENCE: M99/0101/US
CURRENT APPLICATION NUMBER: US/09/442,349A
CURRENT FILING DATE: 1999-11-17
NUMBER OF SEQ ID NOS: 116
SOFTWARE: Patentin Ver. 2.1
SEQ ID NO 4
LENGTH: 374
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: G protein
US-09-442-349A-4

Query Match 64.3%; Score 36; DB 2; Length 374;
Best Local Similarity 100.0%; Pred. No. 2.5e+02;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 5 RHYCY 9
DB 336 RHYCY 340

RESULT 49
US-09-442-349A-64
Sequence 64, Application US/09442349A
Patent No. 6462178
GENERAL INFORMATION:
APPLICANT: Wong, Yung H
TITLE OF INVENTION: G Protein
FILE REFERENCE: M99/0101/US
CURRENT APPLICATION NUMBER: US/09/442,349A
CURRENT FILING DATE: 1999-11-17
NUMBER OF SEQ ID NOS: 116
SOFTWARE: Patentin Ver. 2.1
SEQ ID NO 64

/ LENGTH: 374
/ TYPE: PRT
/ ORGANISM: Artificial Sequence
/ FEATURE:
/ OTHER INFORMATION: Description of Artificial Sequence: G protein
/ OTHER INFORMATION: chimera
US-09-442-349A-64

Query Match 64.3%; Score 36; DB 2; Length 374;
Best Local Similarity 100.0%; Pred. No. 2.5e+02;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 5 RHYCY 9
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Db 336 RHYCY 340

RESULT 50
US-09-442-349A-65
/ Sequence 65, Application US/09442349A
/ Patent No. 6462178
/ GENERAL INFORMATION:
/ APPLICANT: Wong, Yung H
/ TITLE OF INVENTION: G Protein
/ FILE REFERENCE: M99/0101/US
/ CURRENT APPLICATION NUMBER: US/09/442,349A
/ CURRENT FILING DATE: 1999-11-17
/ NUMBER OF SEQ ID NOS: 116
/ SOFTWARE: Patentln Ver. 2.1
/ SEQ ID NO 65
/ LENGTH: 374
/ TYPE: PRT
/ ORGANISM: Artificial Sequence
/ FEATURE:
/ OTHER INFORMATION: Description of Artificial Sequence: G protein
/ OTHER INFORMATION: chimera
US-09-442-349A-65

Query Match 64.3%; Score 36; DB 2; Length 374;
Best Local Similarity 100.0%; Pred. No. 2.5e+02;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 5 RHYCY 9
|||
Db 336 RHYCY 340

Search completed: May 5, 2006, 04:48:31
Job time : 22.7 secs

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GenCore version 5.1.7
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OM protein - protein search, using sw model

Run on: May 5, 2006, 08:18:14 ; Search time 56 Seconds
(without alignments)
67.151 Million cell updates/sec

Title: US-08-170-344-49

Perfect score: 56

Sequence: 1 ISEYRHYCY 9

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1867569 seqs, 417829326 residues

Total number of hits satisfying chosen parameters: 1867569

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 1000 summaries

Database :
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2: /cgn2_6/ptoddata/1/pubppaa/us08_PUBCOMB.pep.*
3: /cgn2_6/ptoddata/1/pubppaa/us09_PUBCOMB.pep.*
4: /cgn2_6/ptoddata/1/pubppaa/us10_PUBCOMB.pep.*
5: /cgn2_6/ptoddata/1/pubppaa/us10_PUBCOMB.pep.*
6: /cgn2_6/ptoddata/1/pubppaa/us11_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
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2	56	100.0	10	US-10-751-845-75	Sequence 75, Appl
3	56	100.0	10	US-10-751-845-76	Sequence 76, Appl
4	56	100.0	15	US-10-476-570-31	Sequence 31, Appl
5	56	100.0	15	US-10-476-570-32	Sequence 32, Appl
6	56	100.0	20	US-10-476-570-12	Sequence 12, Appl
7	56	100.0	23	US-10-751-845-66	Sequence 66, Appl
8	56	100.0	23	US-10-751-845-65	Sequence 65, Appl
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12	56	100.0	151	US-10-484-063-20	Sequence 20, Appl
13	56	100.0	151	US-10-484-063-27	Sequence 27, Appl
14	56	100.0	151	US-10-858-384-2	Sequence 2, Appl
15	56	100.0	158	US-10-367-057-16	Sequence 16, Appl
16	56	100.0	158	US-11-021-949-13	Sequence 13, Appl
17	56	100.0	171	US-10-472-724-2	Sequence 2, Appl
18	56	100.0	236	US-10-751-845-157	Sequence 157, Appl
19	56	100.0	237	US-10-751-845-158	Sequence 158, Appl
20	56	100.0	243	US-11-072-288-1	Sequence 1, Appl
21	56	100.0	261	US-10-751-845-160	Sequence 160, Appl
22	56	100.0	266	US-09-367-309A-1	Sequence 1, Appl
23	56	100.0	273	US-10-000-903-4	Sequence 4, Appl
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25	56	100.0	292	US-10-000-903-10	Sequence 10, Appl
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27	56	100.0	371	US-10-000-903-6	Sequence 6, Appl

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32	52	92.9	15	US-10-476-570-33	Sequence 33, Appl
33	49	87.5	9	US-10-751-845-78	Sequence 78, Appl
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42	41	73.2	224	US-11-097-143-12937	Sequence 12937, A
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49	38	67.9	180	US-10-408-765A-1288	Sequence 1288, Appl
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51	38	67.9	198	US-10-028-072-550	Sequence 550, Appl
52	38	67.9	198	US-10-140-808-550	Sequence 550, Appl
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132	38	67.9	198	4	US-10-127-831A-550	Sequence 550, App	205	38	67.9	198	4	US-10-147-523-550	Sequence 550, App
133	38	67.9	198	4	US-10-127-837A-550	Sequence 550, App	206	38	67.9	198	4	US-10-158-785-550	Sequence 550, App
134	38	67.9	198	4	US-10-127-838A-550	Sequence 550, App	207	38	67.9	198	4	US-10-121-051-550	Sequence 550, App
135	38	67.9	198	4	US-10-127-842A-550	Sequence 550, App	208	38	67.9	198	4	US-10-216-165-226	Sequence 226, App
136	38	67.9	198	4	US-10-127-843A-550	Sequence 550, App	209	38	67.9	198	4	US-10-218-956-226	Sequence 226, App
137	38	67.9	198	4	US-10-127-845A-550	Sequence 550, App	210	38	67.9	198	4	US-10-219-468-226	Sequence 226, App
138	38	67.9	198	4	US-10-127-846A-550	Sequence 550, App	211	38	67.9	198	4	US-10-219-478-226	Sequence 226, App
139	38	67.9	198	4	US-10-127-848A-550	Sequence 550, App	212	38	67.9	198	4	US-10-219-536-226	Sequence 226, App
140	38	67.9	198	4	US-10-127-849A-550	Sequence 550, App	213	38	67.9	198	4	US-10-231-205-226	Sequence 226, App
141	38	67.9	198	4	US-10-127-850A-550	Sequence 550, App	214	38	67.9	198	4	US-10-121-047-550	Sequence 550, App
142	38	67.9	198	4	US-10-127-851A-550	Sequence 550, App	215	38	67.9	198	4	US-10-219-077-226	Sequence 226, App
143	38	67.9	198	4	US-10-128-684A-550	Sequence 550, App	216	38	67.9	198	4	US-10-219-470-226	Sequence 226, App
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147	38	67.9	198	4	US-10-131-819A-550	Sequence 550, App	220	38	67.9	198	4	US-10-227-880-226	Sequence 226, App
148	38	67.9	198	4	US-10-131-829A-550	Sequence 550, App	221	38	67.9	198	4	US-10-227-881-226	Sequence 226, App
149	38	67.9	198	4	US-10-131-836A-550	Sequence 550, App	222	38	67.9	198	4	US-10-227-882-226	Sequence 226, App
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154	38	67.9	198	4	US-10-147-512-550	Sequence 550, App	227	38	67.9	198	4	US-10-232-229-226	Sequence 226, App
155	38	67.9	198	4	US-10-175-735-550	Sequence 550, App	228	38	67.9	198	4	US-10-232-234-226	Sequence 226, App
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157	38	67.9	198	4	US-10-121-056-550	Sequence 550, App	230	38	67.9	198	4	US-10-123-085-288	Sequence 226, App
158	38	67.9	198	4	US-10-121-061-550	Sequence 550, App	231	38	67.9	198	4	US-10-216-160-226	Sequence 226, App
159	38	67.9	198	4	US-10-123-235-550	Sequence 550, App	232	38	67.9	198	4	US-10-216-162-226	Sequence 226, App
160	38	67.9	198	4	US-10-124-818-550	Sequence 550, App	233	38	67.9	198	4	US-10-216-164-226	Sequence 226, App
161	38	67.9	198	4	US-10-137-868-550	Sequence 550, App	234	38	67.9	198	4	US-10-216-167-226	Sequence 226, App
162	38	67.9	198	4	US-10-147-492-550	Sequence 550, App	235	38	67.9	198	4	US-10-216-168-226	Sequence 226, App
163	38	67.9	198	4	US-10-158-782-550	Sequence 550, App	236	38	67.9	198	4	US-10-219-467-226	Sequence 226, App
164	38	67.9	198	4	US-10-123-905-550	Sequence 550, App	237	38	67.9	198	4	US-10-219-065-226	Sequence 226, App
165	38	67.9	198	4	US-10-123-907-550	Sequence 550, App	238	38	67.9	198	4	US-10-219-071-226	Sequence 226, App
166	38	67.9	198	4	US-10-124-815-550	Sequence 550, App	239	38	67.9	198	4	US-10-219-074-226	Sequence 226, App
167	38	67.9	198	4	US-10-125-921A-550	Sequence 550, App	240	38	67.9	198	4	US-10-219-077-226	Sequence 226, App
168	38	67.9	198	4	US-10-125-928A-550	Sequence 550, App	241	38	67.9	198	4	US-10-219-465-226	Sequence 226, App
169	38	67.9	198	4	US-10-137-821A-550	Sequence 550, App	242	38	67.9	198	4	US-10-219-467-226	Sequence 226, App
170	38	67.9	198	4	US-10-127-822A-550	Sequence 550, App	243	38	67.9	198	4	US-10-219-469-226	Sequence 226, App
171	38	67.9	198	4	US-10-127-824A-550	Sequence 550, App	244	38	67.9	198	4	US-10-219-471-226	Sequence 226, App
172	38	67.9	198	4	US-10-127-826A-550	Sequence 550, App	245	38	67.9	198	4	US-10-219-473-226	Sequence 226, App
173	38	67.9	198	4	US-10-127-827A-550	Sequence 550, App	246	38	67.9	198	4	US-10-219-476-226	Sequence 226, App

247	38	67.9	198	4	US-10-219-482-226	Sequence 226, App	320	38	67.9	198	4	US-10-140-421-550	Sequence 550, App
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251	38	67.9	198	4	US-10-229-974-226	Sequence 226, App	324	38	67.9	198	4	US-10-158-783-550	Sequence 550, App
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253	38	67.9	198	4	US-10-230-113-226	Sequence 226, App	326	38	67.9	198	4	US-10-140-019-550	Sequence 550, App
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266	38	67.9	198	4	US-10-223-088-298	Sequence 298, App	339	38	67.9	198	4	US-10-142-888-550	Sequence 550, App
267	38	67.9	198	4	US-10-223-090-298	Sequence 298, App	340	38	67.9	198	4	US-10-143-034-550	Sequence 550, App
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271	38	67.9	198	4	US-10-227-877-226	Sequence 226, App	344	38	67.9	198	4	US-10-142-765-550	Sequence 550, App
272	38	67.9	198	4	US-10-223-087-298	Sequence 298, App	345	38	67.9	198	4	US-10-142-887-550	Sequence 550, App
273	38	67.9	198	4	US-10-127-847A-550	Sequence 550, App	346	38	67.9	198	4	US-10-142-887-550	Sequence 550, App
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394	38	67.9	198	4	US-10-147-514-550	Sequence 550, App	467	38	67.9	198	4	US-10-124-820-550	Sequence 550, App
395	38	67.9	198	4	US-10-147-524-550	Sequence 550, App	468	38	67.9	198	4	US-10-124-704-550	Sequence 550, App
396	38	67.9	198	4	US-10-152-379-550	Sequence 550, App	469	38	67.9	198	4	US-10-125-927-550	Sequence 550, App
397	38	67.9	198	4	US-10-152-379-550	Sequence 550, App	470	38	67.9	198	4	US-10-223-082-298	Sequence 298, App
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403	38	67.9	198	4	US-10-160-504-550	Sequence 550, App	476	38	67.9	198	4	US-10-157-375-550	Sequence 550, App
404	38	67.9	198	4	US-10-145-634-550	Sequence 550, App	477	38	67.9	198	4	US-10-157-375-550	Sequence 550, App
405	38	67.9	198	4	US-10-147-520-550	Sequence 550, App	478	38	67.9	198	4	US-10-152-386-550	Sequence 550, App
406	38	67.9	198	4	US-10-157-781-550	Sequence 550, App	479	38	67.9	198	4	US-10-152-391-550	Sequence 550, App
407	38	67.9	198	4	US-10-176-989-550	Sequence 550, App	480	38	67.9	198	4	US-10-152-395-550	Sequence 550, App
408	38	67.9	198	4	US-10-147-491-550	Sequence 550, App	481	38	67.9	198	4	US-10-156-848-550	Sequence 550, App
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412	38	67.9	198	4	US-10-152-384-550	Sequence 550, App	485	38	67.9	198	4	US-10-160-500-550	Sequence 550, App
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687	36	64.3	394	5	US-10-215-982-13	Sequence 13, App1	760	35	62.5	45	4	US-10-215-982-13	Sequence 11, App1
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897	34	60.7	564	4	US-10-369-493-3734	Sequence 3734, Ap	970	33	58.9	251	2	US-10-937-758A-20	Sequence 20, Appl
898	34	60.7	573	6	US-11-097-143-18297	Sequence 18297, A	971	33	58.9	251	2	US-08-882-431-16	Sequence 16, Appl
899	34	60.7	661	5	US-10-739-930-9898	Sequence 9898, Ap	972	33	58.9	251	2	US-09-308-830-13	Sequence 13, Appl
900	34	60.7	684	5	US-10-679-520A-55	Sequence 55, Appl	973	33	58.9	251	4	US-10-002-784A-16	Sequence 16, Appl
901	34	60.7	684	5	US-10-679-520A-57	Sequence 57, Appl	974	33	58.9	251	4	US-10-428-817A-16	Sequence 16, Appl
902	34	60.7	684	5	US-10-679-520A-61	Sequence 61, Appl	975	33	58.9	251	5	US-10-767-687-16	Sequence 16, Appl
903	34	60.7	686	5	US-10-679-520A-59	Sequence 59, Appl	976	33	58.9	262	4	US-10-767-701-37124	Sequence 37124, A
			692	3	US-09-826-115-16	Sequence 16, Appl							

```
977 33 58.9 270 3 US-09-816-028A-39 Sequence 39, Appl
978 33 58.9 270 4 US-10-303-161-39 Sequence 39, Appl
979 33 58.9 270 4 US-10-303-118-39 Sequence 39, Appl
980 33 58.9 270 4 US-10-303-128-39 Sequence 39, Appl
981 33 58.9 270 4 US-10-303-134-39 Sequence 39, Appl
982 33 58.9 270 4 US-10-303-162-39 Sequence 39, Appl
983 33 58.9 270 4 US-10-820-536-39 Sequence 39, Appl
984 33 58.9 270 4 US-10-845-408-39 Sequence 39, Appl
985 33 58.9 270 4 US-10-845-412-39 Sequence 39, Appl
986 33 58.9 270 4 US-10-846-219-39 Sequence 39, Appl
987 33 58.9 270 5 US-10-821-604-39 Sequence 39, Appl
988 33 58.9 270 5 US-10-847-983-39 Sequence 39, Appl
989 33 58.9 270 5 US-10-821-573-39 Sequence 39, Appl
990 33 58.9 270 5 US-10-850-807-39 Sequence 39, Appl
991 33 58.9 270 5 US-10-850-125-39 Sequence 39, Appl
992 33 58.9 270 5 US-10-830-825-39 Sequence 39, Appl
993 33 58.9 270 5 US-10-962-334-39 Sequence 39, Appl
994 33 58.9 270 5 US-10-830-997-39 Sequence 39, Appl
995 33 58.9 270 5 US-10-962-235-39 Sequence 39, Appl
996 33 58.9 272 3 US-09-846-808-4 Sequence 4, Appl
997 33 58.9 272 4 US-10-284-986-4 Sequence 4, Appl
998 33 58.9 272 4 US-10-369-293-4 Sequence 4, Appl
999 33 58.9 272 4 US-10-369-293-4 Sequence 4, Appl
1000 33 58.9 272 4 US-10-285-042-4 Sequence 4, Appl
```

ALIGNMENTS

```
RESULT 1
US-10-751-845-70
; Sequence 70, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
; APPLICANT: Hedley, Mary Lynne
; APPLICANT: Urban, Robert G.
; APPLICANT: Chicz, Roman M.
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES
; FILE REFERENCE: 08191-013001
; CURRENT APPLICATION NUMBER: US/10/751,845
; CURRENT FILING DATE: 2004-01-05
; PRIOR APPLICATION NUMBER: US/09/664,225
; PRIOR FILING DATE: 2000-08-18
; PRIOR APPLICATION NUMBER: US 60/169,846
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: US 60/154,665
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 163
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 70
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Human Papilloma virus
US-10-751-845-70

Query Match 100.0%; Score 56; DB 5; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.7e+06;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 ISEYRHYCY 9
   |||||
Db 1 ISEYRHYCY 9
```

```
RESULT 2
US-10-751-845-75
; Sequence 75, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
; APPLICANT: Hedley, Mary Lynne
; APPLICANT: Urban, Robert G.
; APPLICANT: Chicz, Roman M.
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES
```

```
; FILE REFERENCE: 08191-013001
; CURRENT APPLICATION NUMBER: US/10/751,845
; CURRENT FILING DATE: 2004-01-05
; PRIOR APPLICATION NUMBER: US/09/664,225
; PRIOR FILING DATE: 2000-08-18
; PRIOR APPLICATION NUMBER: US 60/169,846
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: US 60/154,665
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 163
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 75
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Human Papilloma virus
US-10-751-845-75

Query Match 100.0%; Score 56; DB 5; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.013;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 ISEYRHYCY 9
   |||||
Db 1 ISEYRHYCY 9
```

```
RESULT 3
US-10-751-845-76
; Sequence 76, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
; APPLICANT: Hedley, Mary Lynne
; APPLICANT: Urban, Robert G.
; APPLICANT: Chicz, Roman M.
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES
; FILE REFERENCE: 08191-013001
; CURRENT APPLICATION NUMBER: US/10/751,845
; CURRENT FILING DATE: 2004-01-05
; PRIOR APPLICATION NUMBER: US/09/664,225
; PRIOR FILING DATE: 2000-08-18
; PRIOR APPLICATION NUMBER: US 60/169,846
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: US 60/154,665
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 163
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 76
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Human Papilloma virus
US-10-751-845-76

Query Match 100.0%; Score 56; DB 5; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.013;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 ISEYRHYCY 9
   |||||
Db 2 ISEYRHYCY 10
```

```
RESULT 4
US-10-476-570-31
; Sequence 31, Application US/10476570
; Publication No. US20040170644A1
; GENERAL INFORMATION:
; APPLICANT: COMMISSARIAT A L'ENERGIE ATOMIQUE
; APPLICANT: INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE
; APPLICANT: MAILLER, Bernard
; APPLICANT: BOURGAULT-VILADA, Isabelle
; APPLICANT: POUVELLE-MORATILLE, Sandra
; APPLICANT: GUILLET, Jean-Gerard
; TITLE OF INVENTION: Mixture of peptides derived from E6 and/or E7
```

```
/ TITLE OF INVENTION: papillomavirus proteins and uses thereof
/ FILE REFERENCE: 45636-5071-US
/ CURRENT APPLICATION NUMBER: US/10/476,570
/ PRIOR FILING DATE: 2003-11-04
/ PRIOR APPLICATION NUMBER: PCT/FR02/01533
/ PRIOR FILING DATE: 2002-05-03
/ PRIOR APPLICATION NUMBER: FR 01 05980
/ PRIOR FILING DATE: 2001-05-04
/ NUMBER OF SEQ ID NOS: 63
/ SOFTWARE: PatentIn Ver. 2.1
/ SEQ ID NO 31
/ LENGTH: 15
/ TYPE: PRT
/ ORGANISM: artificial sequence
/ FEATURE:
/ OTHER INFORMATION: Description of the artificial sequence: peptide B6 76-90
US-10-476-570-31
```

```
Query Match          100.0%; Score 56; DB 4; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.018;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 ISEYRHYCY 9
    |||||
Db  5 ISEYRHYCY 13
```

```
RESULT 5
US-10-476-570-32
/ Sequence 32, Application US/10476570
/ Publication No. US20040170644A1
/ GENERAL INFORMATION:
/ APPLICANT: COMMISSARIAT A L'ENERGIE ATOMIQUE
/ APPLICANT: INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE
/ APPLICANT: MAILLIERE, Bernard
/ APPLICANT: BOURGAULT-VILLADA, Isabelle
/ APPLICANT: POUVELE-MORATILLE, Sandra
/ APPLICANT: GUILLET, Jean-Gerard
/ TITLE OF INVENTION: Mixture of peptides derived from B6 and/or E7
/ TITLE OF INVENTION: Papillomavirus proteins and uses thereof
/ FILE REFERENCE: 45636-5071-US
/ CURRENT APPLICATION NUMBER: US/10/476,570
/ PRIOR FILING DATE: 2003-11-04
/ PRIOR APPLICATION NUMBER: PCT/FR02/01533
/ PRIOR FILING DATE: 2002-05-03
/ PRIOR APPLICATION NUMBER: FR 01 05980
/ PRIOR FILING DATE: 2001-05-04
/ NUMBER OF SEQ ID NOS: 63
/ SOFTWARE: PatentIn Ver. 2.1
/ SEQ ID NO 32
/ LENGTH: 15
/ TYPE: PRT
/ ORGANISM: artificial sequence
/ FEATURE:
/ OTHER INFORMATION: Description of the artificial sequence: peptide B6 78-92
US-10-476-570-32
```

```
Query Match          100.0%; Score 56; DB 4; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.018;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 ISEYRHYCY 9
    |||||
Db  3 ISEYRHYCY 11
```

```
RESULT 6
US-10-476-570-12
/ Sequence 12, Application US/10476570
/ Publication No. US20040170644A1
/ GENERAL INFORMATION:
/ APPLICANT: COMMISSARIAT A L'ENERGIE ATOMIQUE
/ APPLICANT: INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE
```

```
/ APPLICANT: MAILLIERE, Bernard
/ APPLICANT: BOURGAULT-VILLADA, Isabelle
/ APPLICANT: POUVELE-MORATILLE, Sandra
/ APPLICANT: GUILLET, Jean-Gerard
/ TITLE OF INVENTION: Mixture of peptides derived from B6 and/or E7
/ TITLE OF INVENTION: Papillomavirus proteins and uses thereof
/ FILE REFERENCE: 45636-5071-US
/ CURRENT APPLICATION NUMBER: US/10/476,570
/ PRIOR FILING DATE: 2003-11-04
/ PRIOR APPLICATION NUMBER: PCT/FR02/01533
/ PRIOR FILING DATE: 2002-05-03
/ PRIOR APPLICATION NUMBER: FR 01 05980
/ PRIOR FILING DATE: 2001-05-04
/ NUMBER OF SEQ ID NOS: 63
/ SOFTWARE: PatentIn Ver. 2.1
/ SEQ ID NO 12
/ LENGTH: 20
/ TYPE: PRT
/ ORGANISM: artificial sequence
/ FEATURE:
/ OTHER INFORMATION: Description of the artificial sequence: peptide B6 76-95
US-10-476-570-12
```

```
Query Match          100.0%; Score 56; DB 4; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.024;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 ISEYRHYCY 9
    |||||
Db  5 ISEYRHYCY 13
```

```
RESULT 7
US-10-751-845-66
/ Sequence 66, Application US/10751845
/ Publication No. US20050100928A1
/ GENERAL INFORMATION:
/ APPLICANT: Hedley, Mary Lynne
/ APPLICANT: Urban, Robert G.
/ APPLICANT: Chicz, Robert M.
/ TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES
/ FILE REFERENCE: 08191-013001
/ CURRENT APPLICATION NUMBER: US/10/751,845
/ PRIOR FILING DATE: 2004-01-05
/ PRIOR APPLICATION NUMBER: US/09/664,225
/ PRIOR FILING DATE: 2000-08-18
/ PRIOR APPLICATION NUMBER: US 60/169,846
/ PRIOR FILING DATE: 1999-12-09
/ PRIOR APPLICATION NUMBER: US 60/154,665
/ PRIOR FILING DATE: 1999-09-16
/ NUMBER OF SEQ ID NOS: 163
/ SOFTWARE: FastSeq for Windows Version 4.0
/ SEQ ID NO 66
/ LENGTH: 23
/ TYPE: PRT
/ ORGANISM: Human Papilloma virus
US-10-751-845-66
```

```
Query Match          100.0%; Score 56; DB 5; Length 23;
Best Local Similarity 100.0%; Pred. No. 0.027;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 ISEYRHYCY 9
    |||||
Db  2 ISEYRHYCY 10
```

```
RESULT 8
US-10-476-570-55
/ Sequence 55, Application US/10476570
/ Publication No. US20040170644A1
/ GENERAL INFORMATION:
/ APPLICANT: COMMISSARIAT A L'ENERGIE ATOMIQUE
```

```

; APPLICANT: INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE
; APPLICANT: MAILLIERE, Bernard
; APPLICANT: BOURGAULT-VILLADA, Isabelle
; APPLICANT: FOUVELLE-MORATILLE, Sandra
; APPLICANT: GUILLET, Jean-Gerard
; TITLE OF INVENTION: Mixture of peptides derived from B6 and/or E7
; FILE REFERENCE: 45636-5071-US
; CURRENT APPLICATION NUMBER: US/10/476,570
; CURRENT FILING DATE: 2003-11-04
; PRIOR APPLICATION NUMBER: PCT/FR02/01533
; PRIOR FILING DATE: 2002-05-03
; PRIOR APPLICATION NUMBER: FR 01 05980
; PRIOR FILING DATE: 2001-05-04
; NUMBER OF SEQ ID NOS: 63
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 55
; LENGTH: 29
; TYPE: PRT
; ORGANISM: artificial sequence
; FEATURE:
; OTHER INFORMATION: Description of the artificial sequence: peptide B6 80-108
US-10-476-570-55
```

```

Query Match          100.0%; Score 56; DB 4; Length 29;
Best Local Similarity 100.0%; Pred. No. 0.034;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy      1 ISEYRHYCY 9
        |||||
Db      1 ISEYRHYCY 9
```

```

RESULT 9
US-10-858-384-8
; Sequence 8, Application US/10858384
; Publication No. US2005003025A1
; GENERAL INFORMATION:
; APPLICANT: CHOPPIN, JEANNINE
; APPLICANT: BOURGAULT VILLADA, ISABELLE
; APPLICANT: GUILLET, JEAN-GERARD
; APPLICANT: CONNAN, FRANCINE
; APPLICANT: FERRIES, ESTELLE
; TITLE OF INVENTION: POLYPEPTIDIC PROTEIN FRAGMENTS OF THE B6 PROTEIN
; TITLE OF INVENTION: OR E7 OF HPV, THEIR PRODUCTION AND THEIR USE
; FILE REFERENCE: 0508-1037-1
; CURRENT APPLICATION NUMBER: US/10/858,384
; CURRENT FILING DATE: 2004-06-02
; PRIOR APPLICATION NUMBER: FR 9907012
; PRIOR FILING DATE: 1999-06-03
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: Patentin Ver. 3.2
; SEQ ID NO 8
; LENGTH: 29
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of the Artificial Sequence: Peptide fragment
US-10-858-384-8
```

```

Query Match          100.0%; Score 56; DB 5; Length 29;
Best Local Similarity 100.0%; Pred. No. 0.034;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy      1 ISEYRHYCY 9
        |||||
Db      1 ISEYRHYCY 9
```

```

RESULT 10
US-10-751-845-126
```

```

; Sequence 126, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
; APPLICANT: Hedley, Mary Lynne
; APPLICANT: Urban, Robert G.
; APPLICANT: Chicz, Roman M.
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES
; FILE REFERENCE: 08191-013001
; CURRENT APPLICATION NUMBER: US/10/751,845
; CURRENT FILING DATE: 2004-01-05
; PRIOR APPLICATION NUMBER: US/09/664,225
; PRIOR FILING DATE: 2000-08-18
; PRIOR APPLICATION NUMBER: US 60/169,846
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: US 60/154,665
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 163
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 126
; LENGTH: 117
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Artificial fusion sequence
US-10-751-845-126
```

```

Query Match          100.0%; Score 56; DB 5; Length 117;
Best Local Similarity 100.0%; Pred. No. 0.12;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy      1 ISEYRHYCY 9
        |||||
Db      46 ISEYRHYCY 54
```

```

RESULT 11
US-10-177-390-6
; Sequence 6, Application US/10177390
; Publication No. US20030143743A1
; GENERAL INFORMATION:
; APPLICANT: Schuler, Gerold
; APPLICANT: N.V. Antwerp Innovatiecentrum
; TITLE OF INVENTION: Improved Transfection of Eucaryotic Cells with Linear
; FILE REFERENCE: 021505wo/JH/ml
; CURRENT APPLICATION NUMBER: US/10/177,390
; CURRENT FILING DATE: 2002-06-20
; NUMBER OF SEQ ID NOS: 34
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 6
; LENGTH: 151
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-10-177-390-6
```

```

Query Match          100.0%; Score 56; DB 4; Length 151;
Best Local Similarity 100.0%; Pred. No. 0.15;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy      1 ISEYRHYCY 9
        |||||
Db      73 ISEYRHYCY 81
```

```

RESULT 12
US-10-484-063-20
; Sequence 20, Application US/10484063
; Publication No. US20050048467A1
; GENERAL INFORMATION:
; APPLICANT: SASTRY, K. JAGANNADHA
; APPLICANT: TORTOLERO-LUNA, GUILTERMO
; APPLICANT: FOLLEN, MICHAEL
; TITLE OF INVENTION: METHODS AND COMPOSITIONS RELATING TO HPV-ASSOCIATED
```



```

; TITLE OF INVENTION: PRE-CANCEROUS AND CANCEROUS GROWTHS, INCLUDING CIN
; FILE REFERENCE: UTSC:560US
; CURRENT APPLICATION NUMBER: US/10/484,063
; PRIOR FILING DATE: 2004-01-16
; PRIOR APPLICATION NUMBER: PCT/US02/23198
; PRIOR FILING DATE: 2002-07-19
; PRIOR APPLICATION NUMBER: 60/306,809
; PRIOR FILING DATE: 2001-07-20
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 20
; LENGTH: 151
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-484-063-20

Query Match          100.0%; Score 56; DB 5; Length 151;
Best Local Similarity 100.0%; Pred. No. 0.15;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 ISEYRHYCY 9
        |||||
Db       73 ISEYRHYCY 81

RESULT 13
US-10-484-063-27
; Sequence 27, Application US/10484063
; Publication No. US20050048467A1
; GENERAL INFORMATION:
; APPLICANT: SASTRY, K. JAGANNADHA
; APPLICANT: TORTOLERO-LUNA, GUILLEMO
; APPLICANT: FOLLEN, MICHELE
; TITLE OF INVENTION: METHODS AND COMPOSITIONS RELATING TO HPV-ASSOCIATED
; TITLE OF INVENTION: PRE-CANCEROUS AND CANCEROUS GROWTHS, INCLUDING CIN
; FILE REFERENCE: UTSC:560US
; CURRENT APPLICATION NUMBER: US/10/484,063
; CURRENT FILING DATE: 2004-01-16
; PRIOR APPLICATION NUMBER: PCT/US02/23198
; PRIOR FILING DATE: 2002-07-19
; PRIOR APPLICATION NUMBER: 60/306,809
; PRIOR FILING DATE: 2001-07-20
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 27
; LENGTH: 151
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-10-484-063-27

Query Match          100.0%; Score 56; DB 5; Length 151;
Best Local Similarity 100.0%; Pred. No. 0.15;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 ISEYRHYCY 9
        |||||
Db       73 ISEYRHYCY 81

RESULT 14
US-10-858-384-2
; Sequence 2, Application US/10858384
; Publication No. US20050033025A1
; GENERAL INFORMATION:
; APPLICANT: CHOPPIN, JEANNINE
; APPLICANT: BOURGAULT VILLADA, ISABELLE
; APPLICANT: GUILLET, JEAN-GERARD
; APPLICANT: CONNAN, FRANCES
; APPLICANT: FERRIES, ESTELLE
; TITLE OF INVENTION: POLYPEPTIDIC PROTEIN FRAGMENTS OF THE E6 PROTEIN
; TITLE OF INVENTION: OR E7 OF HPV, THEIR PRODUCTION AND THEIR USE
; TITLE OF INVENTION: PARTICULARLY IN VACCINATION
; FILE REFERENCE: 0508-1037-1
```

```

; CURRENT APPLICATION NUMBER: US/10/858,384
; CURRENT FILING DATE: 2004-06-02
; PRIOR APPLICATION NUMBER: FR 9907012
; PRIOR FILING DATE: 1999-06-03
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: PatentIn Ver. 3.2
; SEQ ID NO 2
; LENGTH: 158
; TYPE: PRT
; ORGANISM: Human Papillomavirus
US-10-858-384-2

Query Match          100.0%; Score 56; DB 5; Length 158;
Best Local Similarity 100.0%; Pred. No. 0.15;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 ISEYRHYCY 9
        |||||
Db       80 ISEYRHYCY 88

RESULT 15
US-10-367-057-16
; Sequence 16, Application US/10367057
; Publication No. US20050100554A1
; GENERAL INFORMATION:
; APPLICANT: Cuthill, Scott;
; APPLICANT: Jackson, Amanda;
; APPLICANT: Lewin, David A.;
; APPLICANT: Ooi, Chean Eng
; TITLE OF INVENTION: Complexes and Methods of Using Same
; FILE REFERENCE: 21402-559
; CURRENT APPLICATION NUMBER: US/10/367,057
; CURRENT FILING DATE: 2003-02-14
; PRIOR APPLICATION NUMBER: 60/256,911
; PRIOR FILING DATE: 2002-02-14
; NUMBER OF SEQ ID NOS: 198
; SOFTWARE: Curaseqdist version 0.1
; SEQ ID NO 16
; LENGTH: 158
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-367-057-16

Query Match          100.0%; Score 56; DB 5; Length 158;
Best Local Similarity 100.0%; Pred. No. 0.15;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 ISEYRHYCY 9
        |||||
Db       80 ISEYRHYCY 88

RESULT 16
US-11-021-949-13
; Sequence 13, Application US/11021949
; Publication No. US20050142541A1
; GENERAL INFORMATION:
; APPLICANT: LU, PETER
; APPLICANT: GARMAN, JONATHAN DAVID
; APPLICANT: BELMARES, MICHAEL P.
; APPLICANT: DINZ-SARMIENTO, CHAMORRO SOMOZA
; APPLICANT: SCHWEIZER, JOHANNES
; TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
; TITLE OF INVENTION: AND METHODS OF THEIR USE
; FILE REFERENCE: VITA-012
; CURRENT APPLICATION NUMBER: US/11/021,949
; CURRENT FILING DATE: 2004-12-23
; PRIOR APPLICATION NUMBER: 60/532,373
; PRIOR FILING DATE: 2003-12-23
; NUMBER OF SEQ ID NOS: 361
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 13
```

```
; LENGTH: 158
; TYPE: PRT
; ORGANISM: human papilloma virus (HPV)
US-11-021-949-13
```

```
Query Match      100.0%; Score 56; DB 6; Length 156;
Best Local Similarity 100.0%; Pred. No. 0.16;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 ISEYRHYCY 9
Db      80 ISEYRHYCY 88
```

RESULT 17
US-10-472-724-2
; Sequence 2, Application US/104722724
; Publication No. US20040171806A1
; GENERAL INFORMATION:
; APPLICANT: Cid-Arregui, Angel
; APPLICANT: Zur Hausen, Harald
; TITLE OR INVENTION: Modified HPV E6 and E7 genes and proteins useful for vaccination

```

; SEQ ID NO 2
; LENGTH 171
; SOFTWARE: PatentIn version 3.2
; NUMBER OF SEQ ID NOS: 27
; PRIOR FILING DATE: 2001-03-22
; PRIOR APPLICATION NUMBER: EP 01107271.7
; PRIOR FILING DATE: 2002-03-22
; PRIOR APPLICATION NUMBER: PCT/EP02/03271
; CURRENT FILING DATE: 2003-09-17

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; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Construct
US-10-472-724-2

```

Query Match	100.0%	Score 56	DB 4	Length 171
Similarity	100.0%	Pred. No.	0.17	
Best Local				
Matches	9	Conservative	0	Mismatches 0
				Gaps 0

QY	1	ISEYRHYCY	9
Db	85	ISEYRHYCY	93

RESULT 18
 US-10-751-845-157
 : Sequence 157, Application US/10751845
 : Publication No. US20050109328A1
 :
 : GENERAL INFORMATION:
 :
 : APPLICANT: Hedley, Mary Lynne
 : APPLICANT: Urban, Robert G.
 : APPLICANT: Chica, Roman M.
 : TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES

```

: SOFTWARE: FactsSQ for Windows Version 4.0
: SEQ ID NO 157
: LENGTH: 236
: TYPE: PRN
: ORGANISM: Artificial Sequence
: FEATURE:

```

OTHER INFORMATION: Artificial fusion sequence
US-10-751-845-157

Query Match	100.0%	Score 56	DB 5	length 236
Best Local Similarity	100.0%	Pred. No. 0	23	
Matches 9	Conservative 0	Mismatches 0	Indels 0	Gaps 0

Qy	1	ISEYRHYCY	9
Db	46	ISEYRHYCY	54

```

RESULT 19
US-10-751-845-158
; Sequence 158, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
; APPLICANT: Hedley, Mary Lynne
; APPLICANT: Urban, Robert G.
; APPLICANT: Chica, Roman M.
; TITLE OR INVENTION: NUCLEAR ACTING ENCODING POLYMERODE POLYMERINES

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; SEQ ID NO 158
;
; LENGTH: 237
;
; TYPE: PRT
;
; ORGANISM: Artificial Sequence

```

OTHER INFORMATION: Artificial fusion sequence
US-10-751-845-158

Query Match	100.0%	Score 56	DB 5	Length 237
Best Local Similarity	100.0%	Pred. No. 0.23		
Matches 9	Conservative 0	Mismatches 0	Indels 0	Gaps 0

Qy	1	ISEYRHYCY	9
Db	47	ISEYRHYCY	55

RESULT 20
US-11-072-268-1
Sequence 1, Application US/11072288
Publication No. US20050159386A1
GENERAL INFORMATION:
APPLICANT: KIENY, Marie-Paule
APPLICANT: BALLOUL, Jean-Marc
APPLICANT: BIZOUARNE, Nadine
TITLE OF INVENTION: ANTITUMORAL COMPOSITION BASED ON IMMUNOGENIC
PEPTIDE WITH MODIFIED CELL LOCATION

```

:
: PRIOR FILING DATE: 1997-07-18
:
: NUMBER OF SEQ ID NOS: 23
:
: SOFTWARE: PatentIn Ver. 2.2
:
: SEQ ID NO 1
:
: LENGTH: 243
:
: TYPE: PRT
:

```

```
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Derived from
OTHER INFORMATION: human Papillomavirus, strain HPV-16, E6 protein
OTHER INFORMATION: fused F protein signals, clone E6*TMF.
US-11-072-288-1
```

```
Query Match      100.0%; Score 56; DB 6; Length 243;
Best Local Similarity 100.0%; Pred. No. 0.24;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 ISEYRHYCY 9
Db 108 ISEYRHYCY 116
```

```
RESULT 21
US-10-751-845-160
; Sequence 160, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
; APPLICANT: Hedley, Mary Lynne
; APPLICANT: Urban, Robert G.
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES
; FILE REFERENCE: 08191-013001
; CURRENT APPLICATION NUMBER: US/10/751,845
; PRIOR FILING DATE: 2004-01-05
; PRIOR APPLICATION NUMBER: US/09/664,225
; PRIOR FILING DATE: 2000-08-18
; PRIOR APPLICATION NUMBER: US 60/169,846
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: US 60/154,665
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 163
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 160
; LENGTH: 261
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Artificial fusion sequence
US-10-751-845-160
```

```
Query Match      100.0%; Score 56; DB 5; Length 261;
Best Local Similarity 100.0%; Pred. No. 0.25;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 ISEYRHYCY 9
Db 71 ISEYRHYCY 79
```

```
RESULT 22
US-09-367-309A-1
; Sequence 1, Application US/09367309A
; Publication No. US20020081329A1
; GENERAL INFORMATION:
; APPLICANT: MACFARLAN, ROBERTICK I.
; APPLICANT: MALLIAROS, JIM
; TITLE OF INVENTION: CHELATING IMMUNOSTIMULATING COMPLEXES
; FILE REFERENCE: 017227/0149
; CURRENT APPLICATION NUMBER: US/09/367,309A
; PRIOR FILING DATE: 1999-08-11
; PRIOR APPLICATION NUMBER: PCT/AU98/00080
; PRIOR FILING DATE: 1998-02-13
; PRIOR APPLICATION NUMBER: AU PO 5178
; PRIOR FILING DATE: 1997-02-19
; NUMBER OF SEQ ID NOS: 6
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
; LENGTH: 266
; TYPE: PRT
```

```
ORGANISM: Human papillomavirus type 16
US-09-367-309A-1
```

```
Query Match      100.0%; Score 56; DB 3; Length 266;
Best Local Similarity 100.0%; Pred. No. 0.26;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 ISEYRHYCY 9
Db 80 ISEYRHYCY 88
```

```
RESULT 23
US-10-000-903-4
; Sequence 4, Application US/10000903
; Publication No. US20020182221A1
; GENERAL INFORMATION:
; APPLICANT: Bruck, Claudine
; APPLICANT: Cabezon Silva, Teresa
; APPLICANT: Delisse, Anne-Marie Eva Fernande
; APPLICANT: Gerard, Catherine Marie Ghislaine
; APPLICANT: Lombardo-Bencheikh, Angela
; TITLE OF INVENTION: Vaccine
; FILE REFERENCE: B45107
; CURRENT APPLICATION NUMBER: US/10/000,903
; CURRENT FILING DATE: 2001-10-01
; PRIOR APPLICATION NUMBER: PCT/EP98/05285
; PRIOR FILING DATE: 1998-08-17
; PRIOR APPLICATION NUMBER: GB 9717953.5
; PRIOR FILING DATE: 1997-08-22
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 4
; LENGTH: 273
; TYPE: PRT
; ORGANISM: Homo sapien
US-10-000-903-4
```

```
Query Match      100.0%; Score 56; DB 4; Length 273;
Best Local Similarity 100.0%; Pred. No. 0.26;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 ISEYRHYCY 9
Db 186 ISEYRHYCY 194
```

```
RESULT 24
US-10-899-771-4
; Sequence 4, Application US/10899771
; Publication No. US20050031638A1
; GENERAL INFORMATION:
; APPLICANT: Dalemans, Wilfried L.J.
; APPLICANT: Gerard, Catherine Marie Ghislaine
; TITLE OF INVENTION: Compositions Comprising Human Papilloma Virus Proteins
; FILE REFERENCE: B45124
; CURRENT APPLICATION NUMBER: US/10/899,771
; CURRENT FILING DATE: 2004-07-27
; PRIOR APPLICATION NUMBER: US/09/581,976
; PRIOR FILING DATE: 2000-06-20
; PRIOR APPLICATION NUMBER: PCT/EP98/08563
; PRIOR FILING DATE: 1998-12-18
; PRIOR APPLICATION NUMBER: GB 9727262.9
; PRIOR FILING DATE: 1997-12-24
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 4
; LENGTH: 273
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Chimeric protein (protein D from Haemophilus
```

OTHER INFORMATION: influenza B and E6 from Human papilloma virus type
; OTHER INFORMATION: 16)
US-10-899-771-4

```
FEATURE:
OTHER INFORMATION: Chimeric protein (protein D from Haemophilus
OTHER INFORMATION: Influenzae B and B6E7 fusion from Human papilloma
OTHER INFORMATION: virus type 16)
US-10-899-771-6
```

Query Match 100.0%; Score 56; DB 5; Length 371;

Best Local Similarity 100.0%; Pred. No. 0.35;

Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ISEYRHYCY 9

DB 186 ISEYRHYCY 194

RESULT 29
US-10-000-903-14

Sequence 14, Application US/10000903
Publication No. US20020182221A1

GENERAL INFORMATION:

APPLICANT: Bruck, Claudine

APPLICANT: Cabezon Silva, Teresa

APPLICANT: Delisee, Anne-Marie Eva Bernande

APPLICANT: Gerard, Catherine Marie Ghislaine

APPLICANT: Lombardo-Bencheikh, Angela

TITLE OF INVENTION: Vaccine

FILE REFERENCE: B45107

CURRENT APPLICATION NUMBER: US/10/000,903

CURRENT FILING DATE: 2001-10-01

PRIOR APPLICATION NUMBER: PCT/EP98/05285

PRIOR FILING DATE: 1998-08-17

PRIOR APPLICATION NUMBER: GB 9717953.5

PRIOR FILING DATE: 1997-08-22

NUMBER OF SEQ ID NOS: 23

SOFTWARE: FastSeq for Windows Version 3.0

SEQ ID NO 14

LENGTH: 390

TYPE: PRT

ORGANISM: Homo sapien

US-10-000-903-14

Query Match 100.0%; Score 56; DB 4; Length 390;
Best Local Similarity 100.0%; Pred. No. 0.36;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ISEYRHYCY 9

DB 205 ISEYRHYCY 213

RESULT 30

US-10-899-771-14

Sequence 14, Application US/10899771

Publication No. US20050031638A1

GENERAL INFORMATION:

APPLICANT: Dalemard, Wilfried L.J.

TITLE OF INVENTION: Compositions Comprising Human Papilloma Virus Proteins

TITLE OF INVENTION: and Fusion Proteins Advantaged with a Cpg Oligonucleotide

FILE REFERENCE: B45124

CURRENT APPLICATION NUMBER: US/10/899,771

CURRENT FILING DATE: 2004-07-27

PRIOR APPLICATION NUMBER: US/09/581,976

PRIOR FILING DATE: 2000-06-20

PRIOR APPLICATION NUMBER: PCT/EP98/08563

PRIOR FILING DATE: 1998-12-18

PRIOR APPLICATION NUMBER: GB 9727262.9

PRIOR FILING DATE: 1997-12-24

NUMBER OF SEQ ID NOS: 28

SOFTWARE: FastSeq for Windows Version 3.0

SEQ ID NO 14

LENGTH: 390

TYPE: PRT

ORGANISM: Artificial Sequence

FEATURE:

OTHER INFORMATION: Chimeric protein (Clyra from Streptococcus

OTHER INFORMATION: pneumoniae and B6E7 fusion from Human papilloma

OTHER INFORMATION: virus type 16)

US-10-899-771-14

Query Match 100.0%; Score 56; DB 5; Length 390;

Best Local Similarity 100.0%; Pred. No. 0.36;

Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ISEYRHYCY 9

DB 205 ISEYRHYCY 213

RESULT 31

US-10-751-845-80

Sequence 80, Application US/10751845

Publication No. US20050100928A1

GENERAL INFORMATION:

APPLICANT: Hedley, Mary Lynne

APPLICANT: Urban, Robert G.

APPLICANT: Chic, Roman M.

TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES

FILE REFERENCE: 08191-013001

CURRENT APPLICATION NUMBER: US/10/751,845

CURRENT FILING DATE: 2004-01-05

PRIOR APPLICATION NUMBER: US/09/664,225

PRIOR FILING DATE: 2000-08-18

PRIOR APPLICATION NUMBER: US 60/169,846

PRIOR FILING DATE: 1999-12-09

PRIOR APPLICATION NUMBER: US 60/154,665

PRIOR FILING DATE: 1999-09-16

NUMBER OF SEQ ID NOS: 163

SOFTWARE: FastSeq for Windows Version 4.0

SEQ ID NO 80

LENGTH: 10

TYPE: PRT

ORGANISM: Human Papilloma virus

US-10-751-845-80

Query Match 92.9%; Score 52; DB 5; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.055;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 SEYRHYCY 9

DB 1 SEYRHYCY 8

RESULT 32

US-10-476-570-33

Sequence 33, Application US/10476570

Publication No. US20040170644A1

GENERAL INFORMATION:

APPLICANT: COMMISSARIAT A L'ENERGIE ATOMIQUE

APPLICANT: INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE

APPLICANT: MAILLIERE, Bernard

APPLICANT: BOURGAULT-VILLADA, Isabelle

APPLICANT: POUVELLE-MORATILLER, Sandra

TITLE OF INVENTION: Mixture of peptides derived from B6 and/or E7

TITLE OF INVENTION: papillomavirus proteins and uses thereof

FILE REFERENCE: 45636-5071-US

CURRENT APPLICATION NUMBER: US/10/476,570

CURRENT FILING DATE: 2003-11-04

PRIOR APPLICATION NUMBER: PCT/FR02/01533

PRIOR FILING DATE: 2002-05-03

PRIOR APPLICATION NUMBER: FR 01 05980

PRIOR FILING DATE: 2001-05-04

NUMBER OF SEQ ID NOS: 63

SOFTWARE: PatentIn Ver. 2.1

```
; SEQ ID NO 33
; LENGTH: 15
; TYPE: PRT
; ORGANISM: artificial sequence
; FEATURE:
; OTHER INFORMATION: Description of the artificial sequence: peptide E6 81-95
US-10-476-570-33
```

```
Query Match          92.9%; Score 52; DB 4; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.085;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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QY      2 SEYRHYCY 9
        |||||
Db       1 SEYRHYCY 8
```

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RESULT 33
US-10-751-845-78
; Sequence 78, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
; APPLICANT: Hedley, Mary Lynne
; APPLICANT: Urban, Robert G.
; APPLICANT: Chicz, Roman M.
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES
; FILE REFERENCE: 08191-013001
; CURRENT APPLICATION NUMBER: US/10/751,845
; PRIOR FILING DATE: 2004-01-05
; PRIOR APPLICATION NUMBER: US/09/664,225
; PRIOR FILING DATE: 2000-08-18
; PRIOR FILING DATE: 1999-12-09
; PRIOR FILING DATE: 1999-09-16
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 163
; SOFTWARE: FaastSeq for Windows Version 4.0
; SEQ ID NO 78
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Human Papilloma virus
US-10-751-845-78
```

```
Query Match          87.5%; Score 49; DB 5; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.7e+06;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 ISEYRHYCY 8
        |||||
Db       2 ISEYRHYCY 9
```

```
RESULT 34
US-10-239-313A-313
; Sequence 313, Application US/10239313A
; Publication No. US20030175285A1
; GENERAL INFORMATION:
; APPLICANT: KLINGER - HAMOUR, Christine
; APPLICANT: CORVAIA, Nathalie
; APPLICANT: BECK, Alain
; APPLICANT: GOESCH, Liliane
; TITLE OF INVENTION: MOLECULE OF PHARMACEUTICAL INTEREST COMPRISING AT ITS
; TITLE OF INVENTION: N-TERMINAL A GLUTAMIC ACID OR A GLUTAMINE IN THE FORM
; FILE REFERENCE: 343 727 - US
; CURRENT APPLICATION NUMBER: US/10/239,313A
; CURRENT FILING DATE: 2002-09-19
; PRIOR APPLICATION NUMBER: FR 00/03711
; PRIOR FILING DATE: 2000-03-23
; PRIOR APPLICATION NUMBER: PCT 01/70772
; PRIOR FILING DATE: 2001-03-22
; NUMBER OF SEQ ID NOS: 697
; SOFTWARE: PatentIn Ver. 2.1
```

```
; SEQ ID NO 313
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-239-313A-313
```

```
Query Match          85.7%; Score 48; DB 4; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.7e+06;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      3 EYRHYCY 9
        |||||
Db       1 EYRHYCY 7
```

```
RESULT 35
US-10-751-845-86
; Sequence 86, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
; APPLICANT: Hedley, Mary Lynne
; APPLICANT: Urban, Robert G.
; APPLICANT: Chicz, Roman M.
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES
; FILE REFERENCE: 08191-013001
; CURRENT APPLICATION NUMBER: US/10/751,845
; CURRENT FILING DATE: 2004-01-05
; PRIOR APPLICATION NUMBER: US/09/664,225
; PRIOR FILING DATE: 2000-08-18
; PRIOR APPLICATION NUMBER: US 60/169,846
; PRIOR FILING DATE: 1999-12-09
; PRIOR FILING DATE: 1999-09-16
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 163
; SOFTWARE: FaastSeq for Windows Version 4.0
; SEQ ID NO 86
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Human Papilloma virus
US-10-751-845-86
```

```
Query Match          85.7%; Score 48; DB 5; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.7e+06;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      3 EYRHYCY 9
        |||||
Db       1 EYRHYCY 7
```

```
RESULT 36
US-10-751-845-93
; Sequence 93, Application US/10751845
; Publication No. US20050100928A1
; GENERAL INFORMATION:
; APPLICANT: Hedley, Mary Lynne
; APPLICANT: Urban, Robert G.
; APPLICANT: Chicz, Roman M.
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING POLYPEPTIDE POLYPEPTIDES
; FILE REFERENCE: 08191-013001
; CURRENT APPLICATION NUMBER: US/10/751,845
; CURRENT FILING DATE: 2004-01-05
; PRIOR APPLICATION NUMBER: US/09/664,225
; PRIOR FILING DATE: 2000-08-18
; PRIOR APPLICATION NUMBER: US 60/169,846
; PRIOR FILING DATE: 1999-12-09
; PRIOR FILING DATE: 1999-09-16
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 163
; SOFTWARE: FaastSeq for Windows Version 4.0
; SEQ ID NO 93
; LENGTH: 10
; TYPE: PRT
```

ORGANISM: Human Papilloma virus
US-10-751-845-93

Query Match 85.7%; Score 48; DB 5; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.27;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3 ISEYRHYCY 9
DB 1 ISEYRHYCY 7

RESULT 37
US-11-021-949-17
Sequence 17, Application US/11021949
Publication No. US20050142541A1
GENERAL INFORMATION:
APPLICANT: LU, PETER
APPLICANT: GARMAN, JONATHAN DAVID
APPLICANT: BELMARES, MICHAEL P.
APPLICANT: DIAZ-SARMIENTO, CHAMORRO SOMOZA
APPLICANT: SCHWEIZER, JOHANNES
TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
FILE REFERENCE: VITA-012
CURRENT APPLICATION NUMBER: US/11/021,949
CURRENT FILING DATE: 2004-12-23
PRIOR FILING DATE: 2003-12-23
PRIOR APPLICATION NUMBER: 60/532,373
NUMBER OF SEQ ID NOS: 361
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 17
LENGTH: 148
TYPE: PRT
ORGANISM: human papilloma virus (HPV)
US-11-021-949-17

Query Match 78.6%; Score 44; DB 6; Length 148;
Best Local Similarity 88.9%; Pred. No. 14;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 ISEYRHYCY 9
DB 73 ISEYRHYCY 81

RESULT 38
US-11-021-949-15
Sequence 15, Application US/11021949
Publication No. US20050142541A1
GENERAL INFORMATION:
APPLICANT: LU, PETER
APPLICANT: GARMAN, JONATHAN DAVID
APPLICANT: BELMARES, MICHAEL P.
APPLICANT: DIAZ-SARMIENTO, CHAMORRO SOMOZA
APPLICANT: SCHWEIZER, JOHANNES
TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
FILE REFERENCE: VITA-012
CURRENT APPLICATION NUMBER: US/11/021,949
CURRENT FILING DATE: 2004-12-23
PRIOR FILING DATE: 2003-12-23
PRIOR APPLICATION NUMBER: 60/532,373
NUMBER OF SEQ ID NOS: 361
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 15
LENGTH: 149
TYPE: PRT
ORGANISM: human papilloma virus (HPV)
US-11-021-949-15

Query Match 78.6%; Score 44; DB 6; Length 149;
Best Local Similarity 88.9%; Pred. No. 14;

Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 ISEYRHYCY 9
DB 73 ISEYRHYCY 81

RESULT 39
US-11-021-949-16
Sequence 16, Application US/11021949
Publication No. US20050142541A1
GENERAL INFORMATION:
APPLICANT: LU, PETER
APPLICANT: GARMAN, JONATHAN DAVID
APPLICANT: BELMARES, MICHAEL P.
APPLICANT: DIAZ-SARMIENTO, CHAMORRO SOMOZA
APPLICANT: SCHWEIZER, JOHANNES
TITLE OF INVENTION: ANTIBODIES FOR ONCOGENIC STRAINS OF HPV
FILE REFERENCE: VITA-012
CURRENT APPLICATION NUMBER: US/11/021,949
CURRENT FILING DATE: 2004-12-23
PRIOR FILING DATE: 2003-12-23
PRIOR APPLICATION NUMBER: 60/532,373
NUMBER OF SEQ ID NOS: 361
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 16
LENGTH: 149
TYPE: PRT
ORGANISM: human papilloma virus (HPV)
US-11-021-949-16

Query Match 78.6%; Score 44; DB 6; Length 149;
Best Local Similarity 88.9%; Pred. No. 14;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 ISEYRHYCY 9
DB 73 ISEYRHYCY 81

RESULT 40
US-11-097-143-31596
Sequence 31596, Application US/11097143
Publication No. US20050208558A1
GENERAL INFORMATION:
APPLICANT: Venter, J. Craig
TITLE OF INVENTION: DETECTION KIT, SUCH AS NUCLEIC ACID
ARRAYS, FOR DETECTING EXPRESSION OF 10,000 OR MORE
FILE REFERENCE: CL000728
CURRENT APPLICATION NUMBER: US/11/097,143
CURRENT FILING DATE: 2005-04-04
PRIOR FILING DATE: 1999-10-05
PRIOR APPLICATION NUMBER: 60/160,191
PRIOR FILING DATE: 1999-10-19
PRIOR APPLICATION NUMBER: 60/161,932
PRIOR FILING DATE: 1999-10-28
PRIOR APPLICATION NUMBER: 60/164,769
PRIOR FILING DATE: 1999-11-12
PRIOR APPLICATION NUMBER: 60/173,383
PRIOR FILING DATE: 1999-12-28
PRIOR APPLICATION NUMBER: 60/175,693
PRIOR FILING DATE: 2000-01-12
PRIOR APPLICATION NUMBER: 60/164,831
PRIOR FILING DATE: 2000-02-24
PRIOR APPLICATION NUMBER: 60/191,637
PRIOR FILING DATE: 2000-03-23
NUMBER OF SEQ ID NOS: 43008
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 31596

LENGTH: 1815
TYPE: PRT
ORGANISM: DROSOPHILA
US-11-097-143-31596

Query Match
Best Local Similarity 77.8%; Score 44; DB 6; Length 1815;
Matches 7; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 ISERYHCY 9
Db 52 VSEYRHYFY 60

RESULT 41
US-10-425-115-195167
Sequence 195167, Application US/10425115
Publication No. US20040214272A1
GENERAL INFORMATION:
APPLICANT: La Rosa, Thomas J.
APPLICANT: Kovalic, David K.
APPLICANT: Zhou, Yihua
APPLICANT: Cao, Yongwei
TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
FILE REFERENCE: 38-21(53222)B
CURRENT APPLICATION NUMBER: US/10/425,115
CURRENT FILING DATE: 2003-04-28
NUMBER OF SEQ ID NOS: 369326
SEQ ID NO 195167
LENGTH: 113
TYPE: PRT
ORGANISM: Zea mays
FEATURE:
OTHER INFORMATION: Clone ID: MRT4577_109581C.1.pep
US-10-425-115-195167

Query Match
Best Local Similarity 73.2%; Score 41; DB 4; Length 113;
Matches 5; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 1 ISERYHCY 9
Db 35 VASYTHYCY 43

RESULT 42
US-11-097-143-12297
Sequence 12297, Application US/11097143
Publication No. US20050208558A1
GENERAL INFORMATION:
APPLICANT: Venter, J. Craig
APPLICANT: et al.
TITLE OF INVENTION: DETECTION KIT, SUCH AS NUCLEIC ACID
TITLE OF INVENTION: ARRAYS, FOR DETECTING EXPRESSION OF 10,000 OR MORE
FILE REFERENCE: CL000728
CURRENT APPLICATION NUMBER: US/11/097,143
CURRENT FILING DATE: 2005-04-04
PRIOR APPLICATION NUMBER: 60/157,832
PRIOR FILING DATE: 1999-10-05
PRIOR APPLICATION NUMBER: 60/160,191
PRIOR FILING DATE: 1999-10-19
PRIOR APPLICATION NUMBER: 60/161,932
PRIOR FILING DATE: 1999-10-28
PRIOR APPLICATION NUMBER: 60/164,769
PRIOR FILING DATE: 1999-11-12
PRIOR APPLICATION NUMBER: 60/173,383
PRIOR FILING DATE: 1999-12-28
PRIOR APPLICATION NUMBER: 60/175,693
PRIOR FILING DATE: 2000-01-12
PRIOR APPLICATION NUMBER: 60/184,831
PRIOR FILING DATE: 2000-02-24

PRIOR APPLICATION NUMBER: 60/191,637
PRIOR FILING DATE: 2000-03-23
NUMBER OF SEQ ID NOS: 43008
SOFTWARE: fastseq for windows Version 4.0
SEQ ID NO 12297
LENGTH: 224
TYPE: PRT
ORGANISM: DROSOPHILA
US-11-097-143-12297

Query Match
Best Local Similarity 73.2%; Score 41; DB 6; Length 224;
Matches 6; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 2 SEYRHCY 9
Db 96 SEFRHCY 103

RESULT 43
US-10-425-115-249267
Sequence 249267, Application US/10425115
Publication No. US20040214272A1
GENERAL INFORMATION:
APPLICANT: La Rosa, Thomas J.
APPLICANT: Kovalic, David K.
APPLICANT: Zhou, Yihua
APPLICANT: Cao, Yongwei
TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
FILE REFERENCE: 38-21(53222)B
CURRENT APPLICATION NUMBER: US/10/425,115
CURRENT FILING DATE: 2003-04-28
NUMBER OF SEQ ID NOS: 369326
SEQ ID NO 249267
LENGTH: 112
TYPE: PRT
ORGANISM: Zea mays
FEATURE:
OTHER INFORMATION: Clone ID: MRT4577_158918C.1.pep
US-10-425-115-249267

Query Match
Best Local Similarity 69.6%; Score 39; DB 4; Length 112;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2 SEYRHCY 8
Db 91 STYRHCY 97

RESULT 44
US-10-425-115-308652
Sequence 308652, Application US/10425115
Publication No. US20040214272A1
GENERAL INFORMATION:
APPLICANT: La Rosa, Thomas J.
APPLICANT: Kovalic, David K.
APPLICANT: Zhou, Yihua
APPLICANT: Cao, Yongwei
TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
FILE REFERENCE: 38-21(53222)B
CURRENT APPLICATION NUMBER: US/10/425,115
CURRENT FILING DATE: 2003-04-28
NUMBER OF SEQ ID NOS: 369326
SEQ ID NO 308652
LENGTH: 147
TYPE: PRT
ORGANISM: Zea mays
FEATURE:
NAME/KEY: unsure
LOCATION: (1)..(147)

OTHER INFORMATION: unsure at all Xaa locations
FEATURE:
OTHER INFORMATION: Clone ID: MRT4577_44559C.1 pep
US-10-425-115-308652

Query Match 69.6%; Score 39; DB 4; Length 147;
Best Local Similarity 62.5%; Pred. No. 95;
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 ISEYRHYC 8
DB 70 VDEYRHYC 77

RESULT 45
US-10-450-763-34892
Sequence 34892, Application US/10450763
Publication No. US20050196754A1
GENERAL INFORMATION:
APPLICANT: Hyseq, Inc
TITLE OF INVENTION: NOVEL NUCLEIC ACIDS AND POLYPEPTIDES
FILE REFERENCE: 790CIP3/US
CURRENT APPLICATION NUMBER: US/10/450,763
PRIOR FILING DATE: 2003-06-11
PRIOR APPLICATION NUMBER: PCT/US01/08631
PRIOR FILING DATE: 2001-03-30
PRIOR APPLICATION NUMBER: 09/540,217
PRIOR FILING DATE: 2000-03-31
PRIOR APPLICATION NUMBER: 08/649,167
PRIOR FILING DATE: 2000-08-23
NUMBER OF SEQ ID NOS: 60736
SOFTWARE: Custom
SEQ ID NO 34892
LENGTH: 452
TYPE: PRT
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: DOMAIN
LOCATION: (158)..(203)
OTHER INFORMATION: kw TRANSCRIPTASE REVERSE II ORF2 domain identified by
OTHER INFORMATION: EMATRIX, accession number DMO1354N, p-value=1.000e-40, raw score
US-10-450-763-34892

Query Match 69.6%; Score 39; DB 5; Length 452;
Best Local Similarity 66.7%; Pred. No. 2.7e+02;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 ISEYRHYC 9
DB 35 IYDYROYCY 43

RESULT 46
US-09-809-391-640
Sequence 640, Application US/09809391
Publication No. US20030049618A1
GENERAL INFORMATION:
APPLICANT: Ruben et al.
TITLE OF INVENTION: 186 Human Secreted proteins
FILE REFERENCE: P2002P2
CURRENT APPLICATION NUMBER: US/09/809,391
PRIOR FILING DATE: 2001-03-16
Prior application data removed - consult PAM or file wrapper
NUMBER OF SEQ ID NOS: 761
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 640
LENGTH: 28
TYPE: PRT
ORGANISM: Homo sapiens
US-09-809-391-640

Query Match 67.9%; Score 38; DB 3; Length 28;

Best Local Similarity 75.0%; Pred. No. 31;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 ISEYRHYC 8
DB 4 ISQLRHYC 11

RESULT 47
US-09-882-171-640
Sequence 640, Application US/09882171
Publication No. US20030175858A1
GENERAL INFORMATION:
APPLICANT: Ruben et al.
TITLE OF INVENTION: 186 Human Secreted proteins
FILE REFERENCE: P2002P2
CURRENT APPLICATION NUMBER: US/09/882,171
PRIOR FILING DATE: 2001-06-18
PRIOR APPLICATION NUMBER: 09/809,391
PRIOR FILING DATE: 2001-03-16
PRIOR APPLICATION NUMBER: 09/149,476
PRIOR FILING DATE: 1998-09-08
PRIOR APPLICATION NUMBER: PCT/US98/04493
PRIOR FILING DATE: 1998-03-06
PRIOR APPLICATION NUMBER: 60/040,162
PRIOR FILING DATE: 1997-03-07
PRIOR APPLICATION NUMBER: 60/040,333
PRIOR FILING DATE: 1997-03-07
PRIOR APPLICATION NUMBER: 60/038,621
PRIOR FILING DATE: 1997-03-07
PRIOR APPLICATION NUMBER: 60/040,626
PRIOR FILING DATE: 1997-03-07
PRIOR APPLICATION NUMBER: 60/040,334
PRIOR FILING DATE: 1997-03-07
PRIOR APPLICATION NUMBER: 60/040,336
PRIOR FILING DATE: 1997-03-07
PRIOR APPLICATION NUMBER: 60/040,163
PRIOR FILING DATE: 1997-03-07
PRIOR APPLICATION NUMBER: 60/047,600
PRIOR FILING DATE: 1997-05-23
PRIOR APPLICATION NUMBER: 60/047,615
PRIOR FILING DATE: 1997-05-23
PRIOR APPLICATION NUMBER: 60/047,597
PRIOR FILING DATE: 1997-05-23
PRIOR APPLICATION NUMBER: 60/047,502
PRIOR FILING DATE: 1997-05-23
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PRIOR APPLICATION NUMBER: 60/047,581
PRIOR FILING DATE: 1997-05-23
PRIOR APPLICATION NUMBER: 60/047,584
PRIOR FILING DATE: 1997-05-23
PRIOR APPLICATION NUMBER: 60/047,500
PRIOR FILING DATE: 1997-05-23
PRIOR APPLICATION NUMBER: 60/047,587
PRIOR FILING DATE: 1997-05-23
PRIOR APPLICATION NUMBER: 60/047,492
PRIOR FILING DATE: 1997-05-23
PRIOR APPLICATION NUMBER: 60/047,598
PRIOR FILING DATE: 1997-05-23
PRIOR APPLICATION NUMBER: 60/047,613
PRIOR FILING DATE: 1997-05-23
PRIOR APPLICATION NUMBER: 60/047,582

;; PRIOR FILING DATE: 1997-05-23
;; PRIOR APPLICATION NUMBER: 60/047,596
;; PRIOR FILING DATE: 1997-05-23
;; PRIOR APPLICATION NUMBER: 60/047,612
;; PRIOR FILING DATE: 1997-05-23
;; PRIOR APPLICATION NUMBER: 60/047,632
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;; PRIOR APPLICATION NUMBER: 60/047,601
;; PRIOR FILING DATE: 1997-05-23
;; PRIOR APPLICATION NUMBER: 60/043,580
;; PRIOR FILING DATE: 1997-04-11
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;; PRIOR FILING DATE: 1997-04-11
;; PRIOR APPLICATION NUMBER: 60/043,313
;; PRIOR FILING DATE: 1997-04-11
;; PRIOR APPLICATION NUMBER: 60/043,672
;; PRIOR FILING DATE: 1997-04-11
;; PRIOR APPLICATION NUMBER: 60/043,315
;; PRIOR FILING DATE: 1997-04-11
;; PRIOR APPLICATION NUMBER: 60/048,974
;; PRIOR FILING DATE: 1997-06-06
;; PRIOR APPLICATION NUMBER: 60/056,886
;; PRIOR FILING DATE: 1997-08-22
;; PRIOR APPLICATION NUMBER: 60/056,877
;; PRIOR FILING DATE: 1997-08-22
;; PRIOR APPLICATION NUMBER: 60/056,889
;; PRIOR FILING DATE: 1997-08-22
;; PRIOR APPLICATION NUMBER: 60/056,893
;; PRIOR FILING DATE: 1997-08-22
;; PRIOR APPLICATION NUMBER: 60/056,630
;; PRIOR FILING DATE: 1997-08-22
;; PRIOR APPLICATION NUMBER: 60/056,878
;; PRIOR FILING DATE: 1997-08-22
;; PRIOR APPLICATION NUMBER: 60/056,662
;; PRIOR FILING DATE: 1997-08-22
;; PRIOR APPLICATION NUMBER: 60/056,872
;; PRIOR FILING DATE: 1997-08-22
;; PRIOR APPLICATION NUMBER: 60/056,882
;; PRIOR FILING DATE: 1997-08-22
;; PRIOR APPLICATION NUMBER: 60/056,637
;; PRIOR FILING DATE: 1997-08-22
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;; PRIOR FILING DATE: 1997-08-22
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;; PRIOR FILING DATE: 1997-08-22
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;; PRIOR FILING DATE: 1997-08-22
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;; PRIOR FILING DATE: 1997-08-22
;; PRIOR APPLICATION NUMBER: 60/057,761
;; PRIOR FILING DATE: 1997-08-22
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;; PRIOR FILING DATE: 1997-05-23
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;; PRIOR FILING DATE: 1997-05-23
;; PRIOR APPLICATION NUMBER: 60/047,590
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;; PRIOR FILING DATE: 1997-05-23
;; PRIOR APPLICATION NUMBER: 60/047,614
;; PRIOR FILING DATE: 1997-05-23
;; PRIOR APPLICATION NUMBER: 60/043,578
;; PRIOR FILING DATE: 1997-04-11
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;; PRIOR FILING DATE: 1997-05-23
;; PRIOR APPLICATION NUMBER: 60/043,670
;; PRIOR FILING DATE: 1997-04-11
;; PRIOR APPLICATION NUMBER: 60/056,632
;; PRIOR FILING DATE: 1997-08-22
;; PRIOR APPLICATION NUMBER: 60/056,664
;; PRIOR FILING DATE: 1997-08-22
;; PRIOR APPLICATION NUMBER: 60/056,876
;; PRIOR FILING DATE: 1997-08-22
;; PRIOR APPLICATION NUMBER: 60/056,881
;; PRIOR FILING DATE: 1997-08-22
;; PRIOR APPLICATION NUMBER: 60/056,909
;; PRIOR FILING DATE: 1997-08-22
;; PRIOR APPLICATION NUMBER: 60/056,875
;; PRIOR FILING DATE: 1997-08-22
;; PRIOR APPLICATION NUMBER: 60/056,862
;; PRIOR FILING DATE: 1997-08-22
;; PRIOR APPLICATION NUMBER: 60/056,887
;; PRIOR FILING DATE: 1997-08-22
;; PRIOR APPLICATION NUMBER: 60/056,908
;; PRIOR FILING DATE: 1997-08-22
;; PRIOR APPLICATION NUMBER: 60/048,964
;; PRIOR FILING DATE: 1997-06-06
;; PRIOR APPLICATION NUMBER: 60/057,650
;; PRIOR FILING DATE: 1997-09-05
;; PRIOR APPLICATION NUMBER: 60/056,884
;; PRIOR FILING DATE: 1997-08-22
;; PRIOR APPLICATION NUMBER: 60/057,669
;; PRIOR FILING DATE: 1997-09-05

Query Match 67.9%; Score 38; DB 3; Length 28;
Best Local Similarity 75.0%; Pred. No. 31;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 ISEYRHYC 8
||: |||||
Db 4 ISOLRHYC 11

```
RESULT 48
US-10-164-861-640
; Sequence 640, Application US/10164861
; Publication No. US20030225248A1
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: 186 Human Secreted proteins
; FILE REFERENCE: P2002P1
; CURRENT APPLICATION NUMBER: US/10/164,861
; CURRENT FILING DATE: 2002-06-10
; PRIOR APPLICATION NUMBER: US/09/149,476
; PRIOR FILING DATE: 1998-09-08
; PRIOR APPLICATION NUMBER: PCT/US98/04493
; PRIOR FILING DATE: 1998-03-06
; NUMBER OF SEQ ID NOS: 757
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 640
; LENGTH: 28
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-164-861-640

Query Match      67.9%; Score 38; DB 4; Length 28;
Best Local Similarity 75.0%; Pred. No. 31;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 ISEYRHYC 8
DB 4 ISQLRHYC 11

RESULT 49
US-10-408-765A-1288
; Sequence 1288, Application US/10408765A
; Publication No. US20040101874A1
; GENERAL INFORMATION:
; APPLICANT: Ghosh, Soumitra S.
; APPLICANT: Fahy, Eoin D.
; APPLICANT: Zhang, Bing
; APPLICANT: Gibson, Bradford W.
; APPLICANT: Taylor, Steven W.
; APPLICANT: Glenn, Gary M.
; APPLICANT: Marnock, Dale E.
; TITLE OF INVENTION: TARGETS FOR THERAPEUTIC INTERVENTION
; TITLE OF INVENTION: IDENTIFIED IN THE MITOCHONDRIAL PROTEOME
; FILE REFERENCE: 660088.465
; CURRENT APPLICATION NUMBER: US/10/408,765A
; CURRENT FILING DATE: 2003-04-04
; NUMBER OF SEQ ID NOS: 3077
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1288
; LENGTH: 180
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-408-765A-1288

Query Match      67.9%; Score 38; DB 4; Length 180;
Best Local Similarity 75.0%; Pred. No. 1.7e+02;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
```

```
APPLICANT: Goddard, Audrey
APPLICANT: Gurney, Austin
APPLICANT: Hebert, Carolyn
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APPLICANT: Wood, William
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR INHIBITING NEOPLASTIC
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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8	56	100.0	248	US-10-530-253-11	Sequence 11, Appl
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16	44	78.6	9	US-10-530-061-776	Sequence 776, App
17	44	78.6	10	US-10-530-061-475	Sequence 475, App
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131	32	57.1	255	11	US-11-096-568A-14765	Sequence 14765, A	204	30	53.6	189	9	US-10-467-657-6854	Sequence 6854, Ap
132	32	57.1	259	11	US-11-087-099-8317	Sequence 8317, Ap	205	30	53.6	189	9	US-10-467-657-7856	Sequence 7856, Ap
133	32	57.1	259	11	US-11-188-298-10527	Sequence 10527, A	206	30	53.6	193	11	US-11-096-568A-1113	Sequence 1113, Ap
134	32	57.1	335	11	US-11-079-463-6354	Sequence 6354, Ap	207	30	53.6	201	11	US-11-096-568A-1142	Sequence 1142, Ap
135	32	57.1	388	11	US-11-129-143-47	Sequence 47, Appl	208	30	53.6	205	11	US-11-172-740-2025	Sequence 2025, Ap
136	32	57.1	416	11	US-11-087-099-1321	Sequence 1321, Ap	209	30	53.6	214	9	US-10-927-641-70	Sequence 70, Appl
137	32	57.1	427	11	US-11-087-099-9452	Sequence 9452, A	210	30	53.6	221	7	US-09-978-360A-436	Sequence 436, App
138	32	57.1	779	11	US-11-188-298-12100	Sequence 12100, A	211	30	53.6	252	11	US-11-096-568A-6870	Sequence 6870, Ap
139	32	57.1	779	11	US-11-188-298-14343	Sequence 14343, A	212	30	53.6	253	11	US-11-188-298-5895	Sequence 5895, Ap
140	32	57.1	816	11	US-11-090-433-48	Sequence 48, Appl	213	30	53.6	286	9	US-11-087-099-2805	Sequence 2805, Ap
141	32	57.1	1058	11	US-11-096-568A-27717	Sequence 27717, A	214	30	53.6	290	9	US-10-793-626-3024	Sequence 3024, Ap
142	32	57.1	1061	11	US-11-096-568A-27716	Sequence 27716, A	215	30	53.6	290	9	US-10-793-626-3352	Sequence 3352, Ap
143	32	57.1	1094	11	US-11-096-568A-27715	Sequence 27715, A	216	30	53.6	290	11	US-11-188-298-19549	Sequence 19549, A
144	32	57.1	1224	9	US-10-509-565A-2	Sequence 2, Appl1	217	30	53.6	300	11	US-11-096-568A-18358	Sequence 18358, A
145	32	57.1	1327	11	US-11-019-711-70	Sequence 70, Appl	218	30	53.6	307	11	US-11-172-740-2197	Sequence 2197, Ap
146	31	55.4	15	9	US-10-530-061-1657	Sequence 1657, Ap	219	30	53.6	308	11	US-11-188-298-3745	Sequence 3745, Ap
147	31	55.4	85	9	US-10-467-657-2762	Sequence 2762, Ap	220	30	53.6	308	11	US-11-188-298-10530	Sequence 10530, Ap
148	31	55.4	85	9	US-10-491-468-35	Sequence 35, Appl	221	30	53.6	308	11	US-11-188-298-15926	Sequence 15926, A
149	31	55.4	97	11	US-11-087-099-51182	Sequence 51182, Ap	222	30	53.6	308	11	US-11-188-298-18037	Sequence 20337, A
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151	31	55.4	137	11	US-11-096-568A-11139	Sequence 11139, A	224	30	53.6	311	11	US-11-188-298-379	Sequence 379, App
152	31	55.4	142	11	US-11-096-568A-11138	Sequence 11138, A	225	30	53.6	314	11	US-11-188-298-8691	Sequence 8691, Ap
153	31	55.4	207	11	US-11-079-463-7245	Sequence 7245, Ap	226	30	53.6	315	11	US-11-188-298-587	Sequence 587, App
154	31	55.4	295	11	US-11-188-298-2076	Sequence 2076, Ap	227	30	53.6	324	11	US-11-087-099-4433	Sequence 4433, Ap
155	31	55.4	302	11	US-11-096-568A-12025	Sequence 12025, A	228	30	53.6	324	11	US-11-188-298-15103	Sequence 15103, A
156	31	55.4	304	11	US-11-096-568A-12024	Sequence 12024, A	229	30	53.6	328	9	US-10-974-127A-48	Sequence 48, Appl
157	31	55.4	311	11	US-11-179-411-18	Sequence 18, Appl	230	30	53.6	329	11	US-11-188-298-15415	Sequence 15415, A
158	31	55.4	311	11	US-11-175-766-18	Sequence 18, Appl	231	30	53.6	330	11	US-11-188-298-2406	Sequence 2406, Ap
159	31	55.4	346	11	US-11-079-463-6123	Sequence 6123, Ap	232	30	53.6	331	9	US-10-714-995-40	Sequence 40, Appl
160	31	55.4	346	11	US-11-188-298-8425	Sequence 8425, Ap	233	30	53.6	333	11	US-11-096-568A-18356	Sequence 18356, A
161	31	55.4	370	9	US-11-096-568A-12023	Sequence 12023, A	234	30	53.6	358	9	US-10-467-657-7030	Sequence 7030, Ap
162	31	55.4	374	9	US-10-820-820-4	Sequence 4, Appl1	235	30	53.6	360	9	US-10-974-127A-47	Sequence 47, Appl
163	31	55.4	385	11	US-11-079-463-8385	Sequence 8385, Ap	236	30	53.6	361	11	US-11-188-298-17408	Sequence 17408, A
164	31	55.4	417	11	US-11-096-568A-15429	Sequence 15429, A	237	30	53.6	366	9	US-10-467-657-7024	Sequence 7024, Ap
165	31	55.4	455	9	US-10-793-626-718	Sequence 718, App	238	30	53.6	367	11	US-10-467-657-7964	Sequence 7964, Ap
166	31	55.4	496	11	US-11-079-463-9399	Sequence 9399, Ap	239	30	53.6	418	11	US-11-098-686-10758	Sequence 10758, A
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242	30	53.6	420	9	US-10-974-127A-45	Sequence 45, Appl	315	29	51.8	253	11	US-11-096-568A-25887	Sequence 25887, A
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244	30	53.6	425	11	US-11-096-568A-25564	Sequence 25564, A	317	29	51.8	261	11	US-11-188-298-8541	Sequence 8541, Ap
245	30	53.6	437	9	US-10-131-826A-466	Sequence 466, App	318	29	51.8	267	9	US-10-793-626-882	Sequence 882, App
246	30	53.6	437	9	US-10-973-115B-466	Sequence 466, App	319	29	51.8	273	9	US-10-131-826A-540	Sequence 540, App
247	30	53.6	437	9	US-10-213-535-16	Sequence 16, Appl	320	29	51.8	273	9	US-10-063-703-168	Sequence 168, App
248	30	53.6	437	9	US-10-218-784-162	Sequence 162, App	321	29	51.8	273	9	US-10-973-115B-540	Sequence 540, App
249	30	53.6	437	9	US-10-219-061-162	Sequence 162, App	322	29	51.8	273	9	US-10-226-486-18	Sequence 18, Appl
250	30	53.6	437	9	US-10-219-064-162	Sequence 162, App	323	29	51.8	273	9	US-10-137-873A-540	Sequence 540, App
251	30	53.6	437	9	US-10-219-064-162	Sequence 162, App	324	29	51.8	273	9	US-10-152-370-540	Sequence 540, App
252	30	53.6	437	9	US-10-223-134-162	Sequence 162, App	325	29	51.8	273	11	US-11-102-978-13	Sequence 13, Appl
253	30	53.6	437	9	US-10-137-873A-466	Sequence 466, App	326	29	51.8	273	11	US-11-102-240-168	Sequence 168, App
254	30	53.6	437	9	US-10-152-370-466	Sequence 466, App	327	29	51.8	273	11	US-11-103-195-168	Sequence 168, App
255	30	53.6	437	11	US-11-290-153-466	Sequence 466, App	328	29	51.8	273	11	US-11-290-153-540	Sequence 540, App
256	30	53.6	441	11	US-11-096-568A-25563	Sequence 25563, A	329	29	51.8	279	11	US-11-096-568A-25886	Sequence 25886, A
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258	30	53.6	455	9	US-10-523-328-3	Sequence 3, Appl	331	29	51.8	306	9	US-10-878-556A-89	Sequence 89, Appl
259	30	53.6	455	9	US-10-784-004-715	Sequence 715, App	332	29	51.8	308	9	US-10-995-561-814	Sequence 814, Appl
260	30	53.6	455	11	US-11-182-946-3	Sequence 3, Appl	333	29	51.8	308	11	US-11-188-298-21758	Sequence 21758, A
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263	30	53.6	507	9	US-10-467-657-630	Sequence 630, App	336	29	51.8	330	11	US-11-096-568A-9041	Sequence 9041, App
264	30	53.6	512	11	US-11-087-099-1062	Sequence 1062, Ap	337	29	51.8	334	11	US-11-188-298-9710	Sequence 9710, App
265	30	53.6	543	11	US-11-188-298-19880	Sequence 19880, A	338	29	51.8	339	11	US-11-096-568A-9041	Sequence 9041, App
266	30	53.6	580	11	US-11-143-984A-30	Sequence 30, Appl	339	29	51.8	344	11	US-11-096-568A-25885	Sequence 25885, A
267	30	53.6	619	11	US-11-156-953-5	Sequence 5, Appl	340	29	51.8	345	11	US-11-096-568A-6594	Sequence 6594, Ap
268	30	53.6	623	11	US-11-087-099-5188	Sequence 5188, Ap	341	29	51.8	347	11	US-11-079-463-6594	Sequence 31706, A
269	30	53.6	626	11	US-11-072-512-2199	Sequence 2199, Ap	342	29	51.8	358	11	US-11-096-568A-31705	Sequence 31705, A
270	30	53.6	637	11	US-11-087-099-7996	Sequence 7996, Ap	343	29	51.8	364	11	US-11-096-568A-31793	Sequence 31793, Ap
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272	30	53.6	762	11	US-11-188-298-22284	Sequence 22284, A	345	29	51.8	369	9	US-10-501-035-281	Sequence 281, App
273	30	53.6	909	11	US-11-076-187-4	Sequence 4, Appl	346	29	51.8	371	11	US-11-096-568A-9040	Sequence 9040, Ap
274	30	53.6	1123	11	US-11-019-711-71	Sequence 71, Appl	347	29	51.8	371	11	US-11-096-568A-9043	Sequence 9043, Ap
275	30	53.6	1433	11	US-11-114-962-1	Sequence 1, Appl	348	29	51.8	374	11	US-11-264-096-2094	Sequence 2094, Ap
276	30	53.6	1531	8	US-10-505-928-853	Sequence 853, App	349	29	51.8	380	11	US-11-087-099-3778	Sequence 3778, Ap
277	30	53.6	1604	11	US-11-037-243-73	Sequence 73, Appl	350	29	51.8	380	11	US-11-188-298-1561	Sequence 1561, Ap
278	29.5	52.7	13	11	US-11-145-861-118	Sequence 118, App	351	29	51.8	380	11	US-11-188-298-4944	Sequence 4944, Ap
279	29	51.8	9	11	US-11-136-079-319	Sequence 319, App	352	29	51.8	389	11	US-11-096-568A-31704	Sequence 31704, A
280	29	51.8	10	9	US-10-530-061-132	Sequence 132, App	353	29	51.8	390	11	US-11-079-463-8978	Sequence 8978, Ap
281	29	51.8	10	9	US-10-530-061-857	Sequence 857, App	354	29	51.8	408	9	US-10-509-773-10	Sequence 10, Appl
282	29	51.8	18	11	US-11-068-783-100	Sequence 100, App	355	29	51.8	420	9	US-10-995-561-811	Sequence 811, App
283	29	51.8	18	11	US-11-152-974A-112	Sequence 112, App	356	29	51.8	427	9	US-10-485-188A-503	Sequence 503, App
284	29	51.8	18	11	US-11-153-143A-112	Sequence 112, App	357	29	51.8	437	11	US-11-079-463-9024	Sequence 9024, Ap
285	29	51.8	99	9	US-10-467-657-7214	Sequence 7214, Ap	358	29	51.8	438	11	US-10-641-678-49	Sequence 49, Appl
286	29	51.8	99	11	US-11-264-096-1037	Sequence 1037, Ap	359	29	51.8	447	11	US-11-109-156-30	Sequence 30, Appl
287	29	51.8	99	11	US-11-264-096-1039	Sequence 1039, Ap	360	29	51.8	447	11	US-11-112-882-4	Sequence 4, Appl
288	29	51.8	137	9	US-10-527-500-47	Sequence 47, Appl	361	29	51.8	450	9	US-10-995-561-815	Sequence 815, Appl
289	29	51.8	149	9	US-10-530-253-16	Sequence 16, Appl	362	29	51.8	458	11	US-11-112-882-69	Sequence 69, Appl
290	29	51.8	154	11	US-11-172-740-1025	Sequence 1025, Ap	363	29	51.8	459	11	US-11-143-984A-31	Sequence 31, Appl
291	29	51.8	155	11	US-11-172-740-1019	Sequence 1019, Ap	364	29	51.8	459	11	US-11-087-099-9815	Sequence 9815, Ap
292	29	51.8	155	11	US-11-172-740-1020	Sequence 1020, Ap	365	29	51.8	460	11	US-11-229-371-91	Sequence 91, Appl
293	29	51.8	155	11	US-11-172-740-1028	Sequence 1028, Ap	366	29	51.8	470	11	US-11-229-923-91	Sequence 91, Appl
294	29	51.8	155	11	US-11-172-740-1029	Sequence 1029, Ap	367	29	51.8	470	11	US-11-328-875-91	Sequence 91, Appl
295	29	51.8	155	11	US-11-172-740-1030	Sequence 1030, Ap	368	29	51.8	470	11	US-11-328-875-91	Sequence 91, Appl
296	29	51.8	156	9	US-10-821-234-1397	Sequence 1397, Ap	369	29	51.8	497	9	US-10-793-626-8812	Sequence 8812, Ap
297	29	51.8	156	11	US-11-172-740-1013	Sequence 1013, Ap	370	29	51.8	501	11	US-11-188-298-18819	Sequence 18819, A
298	29	51.8	156	11	US-11-172-740-1021	Sequence 1021, Ap	371	29	51.8	502	11	US-11-188-298-19950	Sequence 19950, A
299	29	51.8	157	11	US-11-172-740-1016	Sequence 1016, Ap	372	29	51.8	501	11	US-11-188-298-18656	Sequence 18656, A
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301	29	51.8	157	11	US-11-172-740-1022	Sequence 1022, Ap	374	29	51.8	525	11	US-11-096-568A-28134	Sequence 28134, A
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303	29	51.8	157	11	US-11-172-740-1027	Sequence 1027, Ap	376	29	51.8	532	11	US-11-188-298-16230	Sequence 16230, A
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305	29	51.8	161	11	US-11-172-740-1018	Sequence 1018, Ap	378	29	51.8	533	11	US-11-087-099-1788	Sequence 1788, Ap
306	29	51.8	169	11	US-11-172-740-1015	Sequence 1015, Ap	379	29	51.8	540	11	US-11-079-463-6055	Sequence 6055, Ap
307	29	51.8	172	11	US-11-172-740-1026	Sequence 1026, Ap	380	29	51.8	540	11	US-11-188-298-21379	Sequence 21379, A
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310	29	51.8	185	11	US-11-096-568A-25833	Sequence 25833, A	383	29	51.8	543	11	US-11-096-568A-29567	Sequence 29567, A
311	29	51.8	205	9	US-10-330-773-145	Sequence 145, App	384	29	51.8	548	9	US-10-995-561-810	Sequence 810, App
312	29	51.8	212	11	US-11-087-099-5517	Sequence 5517, Ap	385	29	51.8	550	9	US-10-467-657-234	Sequence 234, App
313	29	51.8	222	9	US-10-467-657-7608	Sequence 7608, Ap	386	29	51.8				

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389	29	51.8	556	11	US-11-077-618-60	Sequence 60, Appl	462	28	50.0	187	9	US-10-467-657-1536	Sequence 1536, Ap
390	29	51.8	563	11	US-11-188-298-3504	Sequence 3504, Ap	463	28	50.0	189	11	US-11-096-568A-7045	Sequence 7045, Ap
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392	29	51.8	567	9	US-10-995-561-813	Sequence 813, App	465	28	50.0	192	11	US-11-072-175-193	Sequence 193, App
393	29	51.8	582	11	US-11-087-099-11292	Sequence 11292, A	466	28	50.0	196	8	US-10-505-928-666	Sequence 666, App
394	29	51.8	582	11	US-11-188-298-21430	Sequence 21430, A	467	28	50.0	196	11	US-11-072-175-207	Sequence 207, App
395	29	51.8	585	11	US-11-188-298-9951	Sequence 9951, Ap	468	28	50.0	202	11	US-11-072-512-736	Sequence 2736, Ap
396	29	51.8	598	11	US-11-188-298-909	Sequence 909, App	469	28	50.0	216	11	US-11-098-666-10677	Sequence 10677, A
397	29	51.8	598	11	US-11-188-298-17271	Sequence 17271, A	470	28	50.0	224	9	US-10-467-657-2060	Sequence 2060, Ap
398	29	51.8	598	11	US-11-188-298-20619	Sequence 20619, A	471	28	50.0	226	11	US-11-104-111-14	Sequence 14, Appl
399	29	51.8	599	9	US-10-995-561-812	Sequence 812, App	472	28	50.0	228	11	US-11-045-004-1680	Sequence 1680, Ap
400	29	51.8	600	11	US-11-188-298-2303	Sequence 2303, Ap	473	28	50.0	232	11	US-11-096-568A-1458	Sequence 1458, Ap
401	29	51.8	600	11	US-11-188-298-9440	Sequence 9440, Ap	474	28	50.0	236	11	US-11-172-740-1334	Sequence 1334, Ap
402	29	51.8	602	11	US-11-188-298-554	Sequence 554, App	475	28	50.0	237	10	US-11-301-924-6	Sequence 6, Appl1
403	29	51.8	620	11	US-11-188-298-17673	Sequence 17673, A	476	28	50.0	248	11	US-11-054-515-959	Sequence 959, App
404	29	51.8	621	11	US-11-188-298-1043	Sequence 1043, Ap	477	28	50.0	248	11	US-11-266-444-559	Sequence 959, App
405	29	51.8	658	11	US-11-079-463-9653	Sequence 9653, Ap	478	28	50.0	252	11	US-11-188-298-5833	Sequence 5833, Ap
406	29	51.8	698	9	US-10-995-561-939	Sequence 939, App	479	28	50.0	253	9	US-10-509-691-2	Sequence 2, Appl1
407	29	51.8	725	9	US-10-995-561-938	Sequence 938, App	480	28	50.0	253	11	US-11-054-515-1530	Sequence 1530, Ap
408	29	51.8	831	11	US-11-188-298-22164	Sequence 22164, A	481	28	50.0	253	11	US-11-054-515-1850	Sequence 1850, Ap
409	29	51.8	851	11	US-11-087-099-2486	Sequence 2486, Ap	482	28	50.0	253	11	US-11-054-515-1859	Sequence 1859, Ap
410	29	51.8	857	11	US-11-079-463-5245	Sequence 5245, Ap	483	28	50.0	253	11	US-11-266-444-1530	Sequence 1530, Ap
411	29	51.8	893	8	US-10-505-928-733	Sequence 733, App	484	28	50.0	253	11	US-11-266-444-1850	Sequence 1850, Ap
412	29	51.8	1102	9	US-10-204-639-9508	Sequence 9508, Ap	485	28	50.0	253	11	US-11-266-444-1859	Sequence 1859, Ap
413	29	51.8	1479	9	US-10-204-639-9508	Sequence 4, Appl1	486	28	50.0	256	11	US-11-096-568A-20025	Sequence 20025, A
414	29	51.8	1607	11	US-11-098-686-10178	Sequence 10178, A	487	28	50.0	257	11	US-11-045-004-670	Sequence 670, App
415	29	51.8	1896	9	US-10-877-346-13	Sequence 13, Appl	488	28	50.0	269	9	US-10-467-657-2198	Sequence 2198, Ap
416	29	51.8	1905	9	US-10-877-346-44	Sequence 44, Appl	489	28	50.0	270	11	US-11-087-099-9978	Sequence 9978, Ap
417	29	51.8	2871	11	US-11-169-041-131	Sequence 131, App	490	28	50.0	271	11	US-11-195-063-2	Sequence 2, Appl1
418	29	51.8	2911	11	US-11-090-617-706	Sequence 706, App	491	28	50.0	279	11	US-11-134-795-25	Sequence 25, Appl
419	29	51.8	3002	9	US-10-821-234-916	Sequence 916, App	492	28	50.0	280	11	US-11-096-568A-22848	Sequence 22848, A
420	29	51.8	4386	11	US-11-004-399-714	Sequence 714, App	493	28	50.0	284	9	US-10-821-234-1280	Sequence 1280, Ap
421	28	50.0	9	11	US-11-195-063-15	Sequence 15, Appl	494	28	50.0	285	9	US-10-523-362-6	Sequence 6, Appl1
422	28	50.0	13	11	US-11-152-974A-328	Sequence 328, App	495	28	50.0	289	8	US-11-079-463-7154	Sequence 7154, Ap
423	28	50.0	13	11	US-11-153-143A-328	Sequence 328, App	496	28	50.0	292	11	US-11-079-463-7154	Sequence 7154, Ap
424	28	50.0	16	11	US-11-054-515-2891	Sequence 2891, Ap	497	28	50.0	293	11	US-11-087-099-6345	Sequence 6345, Ap
425	28	50.0	16	11	US-11-266-444-2891	Sequence 2891, Ap	498	28	50.0	300	11	US-11-096-568A-7455	Sequence 7455, Ap
426	28	50.0	17	11	US-11-054-515-2831	Sequence 2831, Ap	499	28	50.0	301	11	US-11-096-568A-18564	Sequence 18564, A
427	28	50.0	17	11	US-11-266-444-2831	Sequence 2831, Ap	500	28	50.0	303	11	US-11-058-924-5	Sequence 5, Appl1
428	28	50.0	19	9	US-10-501-411A-253	Sequence 253, App	501	28	50.0	303	11	US-11-072-512-1897	Sequence 3997, App
429	28	50.0	35	11	US-11-121-301-77	Sequence 77, Appl	502	28	50.0	303	11	US-11-096-568A-18563	Sequence 18563, A
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431	28	50.0	58	11	US-11-123-896-238	Sequence 228, App	504	28	50.0	308	11	US-11-096-568A-22847	Sequence 22847, A
432	28	50.0	58	11	US-11-123-896-231	Sequence 231, App	505	28	50.0	310	9	US-10-467-657-1590	Sequence 1590, Ap
433	28	50.0	58	11	US-11-123-896-234	Sequence 234, App	506	28	50.0	314	11	US-11-096-568A-18562	Sequence 18562, A
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435	28	50.0	64	11	US-11-000-463-259	Sequence 259, App	508	28	50.0	317	11	US-11-205-225-2	Sequence 2, Appl1
436	28	50.0	75	11	US-11-000-463-731	Sequence 731, App	509	28	50.0	321	11	US-11-072-512-1635	Sequence 1635, Ap
437	28	50.0	75	11	US-11-096-568A-13999	Sequence 13999, A	510	28	50.0	321	11	US-11-188-298-13557	Sequence 13557, A
438	28	50.0	82	9	US-10-467-657-4750	Sequence 4750, Ap	511	28	50.0	332	11	US-11-096-568A-7454	Sequence 7454, Ap
439	28	50.0	86	11	US-11-123-896-227	Sequence 227, App	512	28	50.0	335	9	US-10-986-405-346	Sequence 346, App
440	28	50.0	86	11	US-11-123-896-230	Sequence 230, App	513	28	50.0	339	11	US-11-188-298-21357	Sequence 21357, A
441	28	50.0	94	11	US-11-123-896-233	Sequence 233, App	514	28	50.0	342	11	US-11-096-568A-33866	Sequence 33866, A
442	28	50.0	94	11	US-11-079-463-7789	Sequence 7789, App	515	28	50.0	343	8	US-10-370-959-146	Sequence 146, App
443	28	50.0	96	11	US-11-188-298-6046	Sequence 6046, Ap	516	28	50.0	350	11	US-11-188-298-13259	Sequence 13259, A
444	28	50.0	105	11	US-11-096-568A-7047	Sequence 7047, Ap	517	28	50.0	350	11	US-11-188-298-12529	Sequence 12529, A
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446	28	50.0	120	11	US-11-120-308-34	Sequence 34, Appl	519	28	50.0	352	11	US-11-264-096-859	Sequence 859, App
447	28	50.0	125	11	US-11-079-463-7862	Sequence 7862, Ap	520	28	50.0	353	8	US-10-370-959-150	Sequence 150, App
448	28	50.0	142	11	US-11-045-004-1795	Sequence 1795, Ap	521	28	50.0	355	11	US-11-096-568A-20023	Sequence 20023, A
449	28	50.0	148	11	US-11-075-185-23	Sequence 22, Appl	522	28	50.0	361	9	US-10-995-561-612	Sequence 612, App
450	28	50.0	152	11	US-11-172-740-793	Sequence 793, App	523	28	50.0	361	11	US-11-130-206-6	Sequence 6, Appl1
451	28	50.0	155	9	US-10-530-253-23	Sequence 23, Appl	524	28	50.0	366	11	US-11-037-243-71	Sequence 71, Appl
452	28	50.0	157	11	US-11-188-298-17711	Sequence 17711, A	525	28	50.0	367	11	US-11-045-004-1775	Sequence 1775, Ap
453	28	50.0	168	11	US-11-188-298-22428	Sequence 22428, A	526	28	50.0	371	8	US-10-370-959-147	Sequence 147, App
454	28	50.0	170	11	US-11-172-740-794	Sequence 794, App	527	28	50.0	374	11	US-11-096-568A-33865	Sequence 33865, A
455	28	50.0	172	11	US-11-205-225-7	Sequence 7, Appl	528	28	50.0	378	11	US-11-096-568A-13864	Sequence 13864, A
456	28	50.0	175	11	US-11-172-740-792	Sequence 792, App	529	28	50.0	380	11	US-11-087-099-10747	Sequence 10747, A
457	28	50.0	178	11	US-11-205-225-6	Sequence 6, Appl1	530	28	50.0	380	11	US-11-188-298-10902	Sequence 20902, A
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534	28	50.0	393	9	US-10-887-540-6	Sequence 6, App1	607	28	50.0	735	11	US-11-188-298-774	Sequence 3774, Ap
535	28	50.0	395	9	US-10-995-561-614	Sequence 614, App	608	28	50.0	742	8	US-10-505-928-434	Sequence 434, App
536	28	50.0	396	11	US-11-096-568A-18365	Sequence 18365, A	609	28	50.0	742	9	US-10-995-561-615	Sequence 615, App
537	28	50.0	397	11	US-11-079-463-9453	Sequence 9453, Ap	610	28	50.0	742	9	US-10-995-561-618	Sequence 618, App
538	28	50.0	406	11	US-11-079-463-5667	Sequence 5667, Ap	611	28	50.0	742	10	US-11-242-111-30	Sequence 30, App1
539	28	50.0	407	11	US-11-072-512-3895	Sequence 3895, Ap	612	28	50.0	742	11	US-11-169-041-184	Sequence 184, App
540	28	50.0	408	11	US-11-096-568A-12788	Sequence 12788, A	613	28	50.0	742	11	US-11-072-175-176	Sequence 176, App
541	28	50.0	413	9	US-10-467-657-2122	Sequence 2122, Ap	614	28	50.0	749	9	US-10-481-938A-105	Sequence 105, App
542	28	50.0	417	11	US-11-079-463-8014	Sequence 8014, Ap	615	28	50.0	815	9	US-10-523-503-64	Sequence 64, App1
543	28	50.0	419	11	US-11-072-512-3262	Sequence 3262, Ap	616	28	50.0	856	11	US-11-096-568A-28102	Sequence 28102, A
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547	28	50.0	423	9	US-10-995-561-616	Sequence 616, App	620	28	50.0	980	11	US-11-085-554A-17	Sequence 17, App1
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552	28	50.0	439	11	US-11-096-568A-20431	Sequence 20431, A	625	28	50.0	1046	11	US-11-165-819-26	Sequence 26, App1
553	28	50.0	440	11	US-11-072-512-3856	Sequence 3856, Ap	626	28	50.0	1121	11	US-11-113-751-24	Sequence 24, App1
554	28	50.0	442	11	US-11-172-740-789	Sequence 789, App	627	28	50.0	1159	11	US-11-113-751-27	Sequence 27, App1
555	28	50.0	443	11	US-11-096-568A-20430	Sequence 20430, A	628	28	50.0	1871	9	US-10-877-3461-42	Sequence 42, App1
556	28	50.0	447	11	US-11-049-348-6	Sequence 6, App1	629	28	50.0	2176	11	US-11-193-561-25	Sequence 25, App1
557	28	50.0	448	11	US-11-096-568A-18364	Sequence 18364, A	630	28	50.0	2176	11	US-11-193-771-25	Sequence 25, App1
558	28	50.0	451	9	US-10-131-826A-126	Sequence 126, App	631	28	50.0	2176	11	US-11-193-806-25	Sequence 25, App1
559	28	50.0	451	9	US-10-973-115B-126	Sequence 126, App	632	28	50.0	2176	11	US-11-193-806-25	Sequence 25, App1
560	28	50.0	451	9	US-10-137-873A-126	Sequence 126, App	633	28	50.0	2176	11	US-11-193-857-25	Sequence 25, App1
561	28	50.0	451	9	US-10-152-370-126	Sequence 126, App	634	28	50.0	2217	11	US-11-193-561-38	Sequence 38, App1
562	28	50.0	451	11	US-11-290-153-126	Sequence 126, App	635	28	50.0	2217	11	US-11-193-771-38	Sequence 38, App1
563	28	50.0	462	11	US-11-096-568A-12786	Sequence 12786, A	636	28	50.0	2217	11	US-11-193-806-38	Sequence 38, App1
564	28	50.0	471	9	US-10-770-726-68	Sequence 68, App1	637	28	50.0	2217	11	US-11-193-806-38	Sequence 38, App1
565	28	50.0	471	11	US-11-152-366-31	Sequence 31, App1	638	28	50.0	2217	11	US-11-193-857-38	Sequence 38, App1
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567	28	50.0	472	11	US-11-188-298-10453	Sequence 32, App1	640	28	50.0	2223	11	US-11-193-771-2	Sequence 2, App1
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569	28	50.0	493	9	US-10-995-561-611	Sequence 611, App	642	28	50.0	2223	11	US-11-193-857-2	Sequence 2, App1
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571	28	50.0	497	11	US-11-188-298-16255	Sequence 16255, A	644	28	50.0	2226	11	US-11-193-561-623	Sequence 23, App1
572	28	50.0	522	11	US-11-054-281-124	Sequence 124, App	645	28	50.0	2296	11	US-11-193-771-23	Sequence 23, App1
573	28	50.0	522	11	US-11-054-281-125	Sequence 125, App	646	28	50.0	2296	11	US-11-193-789-23	Sequence 23, App1
574	28	50.0	523	11	US-11-054-281-122	Sequence 122, App	647	28	50.0	2296	11	US-11-193-789-23	Sequence 23, App1
575	28	50.0	523	11	US-11-054-281-123	Sequence 123, App	648	28	50.0	2296	11	US-11-193-806-23	Sequence 23, App1
576	28	50.0	524	11	US-11-054-281-34	Sequence 34, App1	649	28	50.0	2296	11	US-11-193-857-23	Sequence 23, App1
577	28	50.0	524	11	US-11-054-281-121	Sequence 121, App	650	28	50.0	2330	11	US-11-193-561-21	Sequence 21, App1
578	28	50.0	533	9	US-10-873-528-60	Sequence 60, App1	651	28	50.0	2330	11	US-11-193-771-21	Sequence 21, App1
579	28	50.0	535	9	US-10-995-561-610	Sequence 610, App	652	28	50.0	2330	11	US-11-193-789-21	Sequence 21, App1
580	28	50.0	551	11	US-11-087-099-8478	Sequence 8478, Ap	653	28	50.0	2330	11	US-11-193-806-21	Sequence 21, App1
581	28	50.0	554	11	US-11-000-463-240	Sequence 240, App	654	28	50.0	2330	11	US-11-193-857-21	Sequence 21, App1
582	28	50.0	559	11	US-11-087-099-6344	Sequence 6344, Ap	655	28	50.0	2335	9	US-10-995-561-623	Sequence 623, App
583	28	50.0	568	11	US-11-049-348-5	Sequence 5, App1	656	28	50.0	2335	9	US-11-193-561-627	Sequence 627, App
584	28	50.0	572	11	US-11-079-463-8597	Sequence 8597, Ap	657	28	50.0	2335	11	US-11-193-561-19	Sequence 19, App1
585	28	50.0	601	9	US-10-995-561-993	Sequence 993, App	658	28	50.0	2335	11	US-11-193-789-19	Sequence 19, App1
586	28	50.0	616	11	US-11-072-512-2331	Sequence 2331, Ap	659	28	50.0	2335	11	US-11-193-789-19	Sequence 19, App1
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590	28	50.0	642	9	US-10-995-561-621	Sequence 621, App	663	28	50.0	2336	9	US-10-995-561-626	Sequence 626, App
591	28	50.0	657	9	US-10-995-561-622	Sequence 622, App	664	28	50.0	2421	11	US-11-193-561-17	Sequence 17, App1
592	28	50.0	657	11	US-11-193-561-27	Sequence 27, App1	665	28	50.0	2421	11	US-11-193-771-17	Sequence 17, App1
593	28	50.0	657	11	US-11-193-771-27	Sequence 27, App1	666	28	50.0	2421	11	US-11-193-789-17	Sequence 17, App1
594	28	50.0	657	11	US-11-193-789-27	Sequence 27, App1	667	28	50.0	2421	11	US-11-193-806-17	Sequence 17, App1
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596	28	50.0	657	11	US-11-193-857-27	Sequence 27, App1	669	28	50.0	2421	11	US-11-193-561-15	Sequence 15, App1
597	28	50.0	664	11	US-11-045-004-224	Sequence 224, App	670	28	50.0	2477	11	US-11-193-789-15	Sequence 15, App1
598	28	50.0	664	11	US-10-995-561-519	Sequence 619, App	671	28	50.0	2477	11	US-11-193-806-15	Sequence 15, App1
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601	28	50.0	691	9	US-10-995-561-517	Sequence 485, App	674	28	50.0	2712	11	US-11-096-568A-18202	Sequence 18202, A
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604	28	50.0	722	9	US-10-784-004-370	Sequence 370, App	677	27.5	49.1	908	9	US-10-467-657-1070	Sequence 586, App
605	28	50.0	722	9	US-10-784-004-3929	Sequence 929, App	678	27	48.2	6	9	US-10-857-435A-586	

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680	27	48.2	10	9	US-10-530-061-131	Sequence 131, App	753	27	48.2	202	11	US-11-036-568A-438	Sequence 438, App
681	27	48.2	10	9	US-10-530-061-856	Sequence 856, App	754	27	48.2	208	11	US-11-079-463-7850	Sequence 7850, Ap
682	27	48.2	12	9	US-10-895-064-1665	Sequence 1665, Ap	755	27	48.2	211	11	US-11-124-368A-175	Sequence 175, App
683	27	48.2	12	11	US-11-129-741-1665	Sequence 1665, Ap	756	27	48.2	211	11	US-11-124-368A-176	Sequence 176, App
684	27	48.2	22	9	US-10-895-064-671	Sequence 671, App	757	27	48.2	211	11	US-11-036-568A-15648	Sequence 15648, A
685	27	48.2	22	11	US-11-129-741-671	Sequence 671, App	758	27	48.2	213	9	US-10-467-657-4448	Sequence 4448, Ap
686	27	48.2	24	9	US-10-895-064-2300	Sequence 2300, Ap	759	27	48.2	214	11	US-11-208-997-2	Sequence 2, Appl1
687	27	48.2	24	11	US-11-129-741-2300	Sequence 2300, Ap	760	27	48.2	214	11	US-11-079-463-5569	Sequence 5569, Ap
688	27	48.2	29	9	US-10-895-064-2363	Sequence 2363, Ap	761	27	48.2	226	9	US-10-922-2338-65	Sequence 65, Appl
689	27	48.2	29	11	US-11-129-741-2363	Sequence 2363, Ap	762	27	48.2	227	9	US-10-878-556A-59	Sequence 69, Appl
690	27	48.2	37	11	US-11-129-741-3675	Sequence 3675, Ap	763	27	48.2	227	11	US-11-038-666-1118	Sequence 118, A
691	27	48.2	42	11	US-11-177-509-51	Sequence 51, Appl	764	27	48.2	228	11	US-11-074-176-136	Sequence 136, App
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694	27	48.2	42	11	US-11-177-509-54	Sequence 54, Appl	767	27	48.2	232	11	US-11-036-568A-17696	Sequence 17696, A
695	27	48.2	42	11	US-11-177-509-55	Sequence 55, Appl	768	27	48.2	237	11	US-11-188-298-2866	Sequence 2866, Ap
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697	27	48.2	42	11	US-11-177-509-57	Sequence 57, Appl	770	27	48.2	240	11	US-11-188-298-18906	Sequence 18906, A
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993 27 48.2 863 11 US-11-169-041-167 Sequence 167, App
994 27 48.2 868 9 US-10-995-561-792 Sequence 792, App
995 27 48.2 872 11 US-11-207-078-221 Sequence 221, App
996 27 48.2 872 11 US-11-233-440-9 Sequence 9, Appl1
997 27 48.2 875 11 US-11-045-004-126 Sequence 126, App
998 27 48.2 884 11 US-11-087-099-11219 Sequence 11219, A
999 27 48.2 890 11 US-11-072-512-2461 Sequence 2461, Ap
1000 27 48.2 890 11 US-11-072-512-2992 Sequence 2992, Ap
```

ALIGNMENTS

```
RESULT 1
US-10-530-253-13
; Sequence 13, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Cassecci, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; PRIOR FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: Patentin version 3.1
; SEQ ID NO 13
; LENGTH: 151
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-10-530-253-13
```

```
Query Match 100.0%; Score 56; DB 9; Length 151;
Best Local Similarity 100.0%; Pred. No. 0.027;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy 1 ISEYRHYCY 9
Db 73 ISEYRHYCY 81
```

```
RESULT 2
US-11-206-138-3
; Sequence 3, Application US/11206138
; Publication No. US20060039919A1
```

```
; GENERAL INFORMATION:
; APPLICANT: HealthBanks Biotech CO. LTD.
; TITLE OF INVENTION: Fusion protein for inhibiting cervical cancer
; FILE REFERENCE: P7819/0613
; CURRENT APPLICATION NUMBER: US/11/206,138
; CURRENT FILING DATE: 2005-08-18
; NUMBER OF SEQ ID NOS: 14
; SOFTWARE: Patentin version 3.3
; SEQ ID NO 3
; LENGTH: 158
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-11-206-138-3
```

```
Query Match 100.0%; Score 56; DB 11; Length 158;
Best Local Similarity 100.0%; Pred. No. 0.028;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy 1 ISEYRHYCY 9
Db 80 ISEYRHYCY 88
```

```
RESULT 3
US-10-530-253-1
; Sequence 1, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Cassecci, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; PRIOR FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: Patentin version 3.1
; SEQ ID NO 1
; LENGTH: 248
; TYPE: PRT
; ORGANISM: Human papillomavirus type 16
US-10-530-253-1
```

```
Query Match 100.0%; Score 56; DB 9; Length 248;
Best Local Similarity 100.0%; Pred. No. 0.041;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy 1 ISEYRHYCY 9
Db 73 ISEYRHYCY 81
```

```
RESULT 4
US-10-530-253-3
; Sequence 3, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Cassecci, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; PRIOR FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
```

;; PRIOR FILING DATE: 2002-10-03
;; NUMBER OF SEQ ID NOS: 65
;; SOFTWARE: PatentIn version 3.1
;; SEQ ID NO 3
;; LENGTH: 248
;; TYPE: PRT
;; ORGANISM: Human papillomavirus type 16
US-10-530-253-3

Query Match 100.0%; Score 56; DB 9; Length 248;
Best Local Similarity 100.0%; Pred. No. 0.041;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ISEYRHYCY 9
|||
Db 73 ISEYRHYCY 81

RESULT 5
US-10-530-253-5
;; Sequence 5, Application US/10530253
;; Publication No. US20060014926A1
;; GENERAL INFORMATION:
;; APPLICANT: Casaretti, Maria C.
;; APPLICANT: Smith, Larry
;; APPLICANT: Jeffrey K. Pullen
;; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;; FILE REFERENCE: 00630/100M137-US2
;; CURRENT APPLICATION NUMBER: US/10/530,253
;; PRIOR FILING DATE: 2005-04-04
;; PRIOR APPLICATION NUMBER: PCT/US2003/031726
;; PRIOR FILING DATE: 2003-10-02
;; PRIOR APPLICATION NUMBER: US 60/415,929
;; PRIOR FILING DATE: 2002-10-03
;; NUMBER OF SEQ ID NOS: 65
;; SOFTWARE: PatentIn version 3.1
;; SEQ ID NO 5
;; LENGTH: 248
;; TYPE: PRT
;; ORGANISM: Human papillomavirus type 16
US-10-530-253-5

Query Match 100.0%; Score 56; DB 9; Length 248;
Best Local Similarity 100.0%; Pred. No. 0.041;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ISEYRHYCY 9
|||
Db 73 ISEYRHYCY 81

RESULT 6
US-10-530-253-7
;; Sequence 7, Application US/10530253
;; Publication No. US20060014926A1
;; GENERAL INFORMATION:
;; APPLICANT: Casaretti, Maria C.
;; APPLICANT: Smith, Larry
;; APPLICANT: Jeffrey K. Pullen
;; APPLICANT: Susan P. McElhinney
;; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;; FILE REFERENCE: 00630/100M137-US2
;; CURRENT APPLICATION NUMBER: US/10/530,253
;; PRIOR FILING DATE: 2005-04-04
;; PRIOR APPLICATION NUMBER: PCT/US2003/031726
;; PRIOR FILING DATE: 2003-10-02
;; PRIOR APPLICATION NUMBER: US 60/415,929
;; PRIOR FILING DATE: 2002-10-03
;; NUMBER OF SEQ ID NOS: 65
;; SOFTWARE: PatentIn version 3.1
;; SEQ ID NO 7
;; LENGTH: 248

;; TYPE: PRT
;; ORGANISM: Human papillomavirus type 16
US-10-530-253-7

Query Match 100.0%; Score 56; DB 9; Length 248;
Best Local Similarity 100.0%; Pred. No. 0.041;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ISEYRHYCY 9
|||
Db 170 ISEYRHYCY 178

RESULT 7
US-10-530-253-9
;; Sequence 9, Application US/10530253
;; Publication No. US20060014926A1
;; GENERAL INFORMATION:
;; APPLICANT: Casaretti, Maria C.
;; APPLICANT: Smith, Larry
;; APPLICANT: Jeffrey K. Pullen
;; APPLICANT: Susan P. McElhinney
;; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;; FILE REFERENCE: 00630/100M137-US2
;; CURRENT APPLICATION NUMBER: US/10/530,253
;; PRIOR FILING DATE: 2005-04-04
;; PRIOR APPLICATION NUMBER: PCT/US2003/031726
;; PRIOR FILING DATE: 2003-10-02
;; PRIOR APPLICATION NUMBER: US 60/415,929
;; PRIOR FILING DATE: 2002-10-03
;; NUMBER OF SEQ ID NOS: 65
;; SOFTWARE: PatentIn version 3.1
;; SEQ ID NO 9
;; LENGTH: 248
;; TYPE: PRT
;; ORGANISM: Human papillomavirus type 16
US-10-530-253-9

Query Match 100.0%; Score 56; DB 9; Length 248;
Best Local Similarity 100.0%; Pred. No. 0.041;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ISEYRHYCY 9
|||
Db 170 ISEYRHYCY 178

RESULT 8
US-10-530-253-11
;; Sequence 11, Application US/10530253
;; Publication No. US20060014926A1
;; GENERAL INFORMATION:
;; APPLICANT: Casaretti, Maria C.
;; APPLICANT: Smith, Larry
;; APPLICANT: Jeffrey K. Pullen
;; APPLICANT: Susan P. McElhinney
;; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
;; FILE REFERENCE: 00630/100M137-US2
;; CURRENT APPLICATION NUMBER: US/10/530,253
;; PRIOR FILING DATE: 2005-04-04
;; PRIOR APPLICATION NUMBER: PCT/US2003/031726
;; PRIOR FILING DATE: 2003-10-02
;; PRIOR APPLICATION NUMBER: US 60/415,929
;; PRIOR FILING DATE: 2002-10-03
;; NUMBER OF SEQ ID NOS: 65
;; SOFTWARE: PatentIn version 3.1
;; SEQ ID NO 11
;; LENGTH: 248
;; TYPE: PRT
;; ORGANISM: Human papillomavirus type 16
US-10-530-253-11

Query Match 100.0%; Score 56; DB 9; Length 248;

Best Local Similarity 100.0%; Pred. No. 0.041;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ISEYRHYCY 9
|||||
DB 170 ISEYRHYCY 178

RESULT 9

US-11-192-923A-2
; Sequence 2, Application US/11192923A
; Publication No. US20060018928A1
; GENERAL INFORMATION:
; APPLICANT: PANG, XIAOWU
; TITLE OF INVENTION: VIRUS-LIKE PARTICLE CONTAINING A DENGUE VIRUS
; FILE REFERENCE: 116620-003
; CURRENT APPLICATION NUMBER: US/11/192,923A
; CURRENT FILING DATE: 2005-07-29
; PRIOR APPLICATION NUMBER: CN 03115272.4
; PRIOR FILING DATE: 2003-01-30
; PRIOR APPLICATION NUMBER: CN 03115273.2
; PRIOR FILING DATE: 2003-01-30
; NUMBER OF SEQ ID NOS: 45
; SOFTWARE: PatentIn Ver. 3.3
; SEQ ID NO 2
; LENGTH: 256
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-11-192-923A-2

Query Match 100.0%; Score 56; DB 11; Length 256;
Best Local Similarity 100.0%; Pred. No. 0.042;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ISEYRHYCY 9
|||||
DB 178 ISEYRHYCY 186

RESULT 10

US-10-530-061-505
; Sequence 505, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.033US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 505
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-505

Query Match 92.9%; Score 52; DB 9; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.014;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 SEYRHYCY 9
|||||
DB 3 SEYRHYCY 10

RESULT 11

US-10-530-061-506
; Sequence 506, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.033US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 506
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-506

Query Match 87.5%; Score 49; DB 9; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.044;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ISEYRHYCY 8
|||||
DB 2 ISEYRHYCY 9

RESULT 12

US-10-530-061-124
; Sequence 124, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.033US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 124
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-124

Query Match 85.7%; Score 48; DB 9; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.063;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3 EYRHYCY 9
|||||
DB 1 EYRHYCY 7

RESULT 13

```
US-10-530-061-850
; Sequence 850, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.03US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 850
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-850

Query Match      85.7%; Score 48; DB 9; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.063;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3 EYRHYCY 9
Db 1 EYRHYCY 7

RESULT 14
US-10-530-061-41
; Sequence 41, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.03US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 41
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-41

Query Match      78.6%; Score 44; DB 9; Length 9;
Best Local Similarity 88.9%; Pred. No. 1.9e+05;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 ISEYRHYCY 9
Db 1 ISEYRHYNY 9

RESULT 15
US-10-530-061-122
; Sequence 122, Application US/10530061
; Publication No. US20060079453A1
```

```
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.03US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 122
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-122

Query Match      78.6%; Score 44; DB 9; Length 9;
Best Local Similarity 88.9%; Pred. No. 1.9e+05;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 ISEYRHYCY 9
Db 1 ISEYRHYCY 9

RESULT 16
US-10-530-061-776
; Sequence 776, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.03US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 776
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-776

Query Match      78.6%; Score 44; DB 9; Length 9;
Best Local Similarity 88.9%; Pred. No. 1.9e+05;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 ISEYRHYCY 9
Db 1 ISEYRHYNY 9

RESULT 17
US-10-530-061-475
; Sequence 475, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
```

```
APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.03US02/EKS/W-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; PRIOR FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: Patentin version 3.3
; SEQ ID NO 475
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-475
```

```
Query Match      78.6%; Score 44; DB 9; Length 10;
Best Local Similarity 88.9%; Pred. No. 0.28;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
Qy      1 ISEYRHYCY 9
        |||||
Db      2 ISEYRHYNY 10
```

```
RESULT 18
US-10-530-253-22
; Sequence 22, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Cassetti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: Patentin version 3.1
; SEQ ID NO 22
; LENGTH: 148
; TYPE: PRT
; ORGANISM: Human papillomavirus type 52
US-10-530-253-22
```

```
Query Match      78.6%; Score 44; DB 9; Length 148;
Best Local Similarity 88.9%; Pred. No. 2.4;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
Qy      1 ISEYRHYCY 9
        |||||
Db      73 ISEYRHYNY 81
```

```
RESULT 19
US-10-530-253-17
; Sequence 17, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Cassetti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
```

```
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: Patentin version 3.1
; SEQ ID NO 17
; LENGTH: 149
; TYPE: PRT
; ORGANISM: Human papillomavirus type 33
US-10-530-253-17
```

```
Query Match      78.6%; Score 44; DB 9; Length 149;
Best Local Similarity 88.9%; Pred. No. 2.4;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
Qy      1 ISEYRHYCY 9
        |||||
Db      73 ISEYRHYNY 81
```

```
RESULT 20
US-10-530-253-24
; Sequence 24, Application US/10530253
; Publication No. US20060014926A1
; GENERAL INFORMATION:
; APPLICANT: Cassetti, Maria C.
; APPLICANT: Smith, Larry
; APPLICANT: Jeffrey K. Pullen
; APPLICANT: Susan P. McElhinney
; TITLE OF INVENTION: HUMAN PAPILLOMAVIRUS POLYPEPTIDES AND IMMUNOGENIC COMPOSITIONS
; FILE REFERENCE: 00630/100M137-US2
; CURRENT APPLICATION NUMBER: US/10/530,253
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US2003/031726
; PRIOR FILING DATE: 2003-10-02
; PRIOR APPLICATION NUMBER: US 60/415,929
; PRIOR FILING DATE: 2002-10-03
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: Patentin version 3.1
; SEQ ID NO 24
; LENGTH: 149
; TYPE: PRT
; ORGANISM: Human papillomavirus type 58
US-10-530-253-24
```

```
Query Match      78.6%; Score 44; DB 9; Length 149;
Best Local Similarity 88.9%; Pred. No. 2.4;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
Qy      1 ISEYRHYCY 9
        |||||
Db      73 ISEYRHYNY 81
```

```
RESULT 21
US-10-530-061-598
; Sequence 598, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.03US02/EKS/W-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
```



```

; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 598
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-598
```

```

Query Match          76.8%; Score 43; DB 9; Length 10;
Best Local Similarity 77.8%; Pred. No. 0.41;
Matches 7; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
```

```
QY      1 ISEYRHYCY 9
        ||:|||||
Db       2 VSEYRHYNY 10
```

```

RESULT 22
US-10-530-061-71
; Sequence 71, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.03US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 71
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-71
```

```

Query Match          73.2%; Score 41; DB 9; Length 9;
Best Local Similarity 77.8%; Pred. No. 1.9e+05;
Matches 7; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
```

```
QY      1 ISEYRHYCY 9
        ||:|||||
Db       1 ITEYRHYNY 9
```

```

RESULT 23
US-10-530-061-72
; Sequence 72, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.03US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
```

```

; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 72
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-72
```

```

Query Match          73.2%; Score 41; DB 9; Length 9;
Best Local Similarity 77.8%; Pred. No. 1.9e+05;
Matches 7; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
```

```
QY      1 ISEYRHYCY 9
        ||:|||||
Db       1 ISDYRHYNY 9
```

```

RESULT 24
US-10-530-061-73
; Sequence 73, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.03US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 73
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-73
```

```

Query Match          73.2%; Score 41; DB 9; Length 9;
Best Local Similarity 77.8%; Pred. No. 1.9e+05;
Matches 7; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
```

```
QY      1 ISEYRHYCY 9
        ||:|||||
Db       1 ITEYRHYCY 9
```

```

RESULT 25
US-10-530-061-74
; Sequence 74, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.03US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 74
; LENGTH: 9
```

```
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-74

Query Match          73.2%; Score 41; DB 9; Length 9;
Best Local Similarity 77.8%; Pred. No. 1.9e+05;
Matches 7; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 ISEYRHYCY 9
   ||:|||||
Db 1 ISDYRHYQY 9

RESULT 26
US-10-530-061-121
; Sequence 121, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.033US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; PRIOR FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 121
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-121

Query Match          73.2%; Score 41; DB 9; Length 9;
Best Local Similarity 77.8%; Pred. No. 1.9e+05;
Matches 7; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 ISEYRHYCY 9
   ||:|||||
Db 1 ISDYRHYNY 9

RESULT 27
US-10-530-061-123
; Sequence 123, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.033US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; PRIOR FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 123
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-123
```

```
Query Match          73.2%; Score 41; DB 9; Length 9;
Best Local Similarity 77.8%; Pred. No. 1.9e+05;
Matches 7; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 ISEYRHYCY 9
   ||:|||||
Db 1 ISDYRHYQY 9

RESULT 28
US-10-530-061-128
; Sequence 128, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.033US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; PRIOR FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 128
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-128

Query Match          73.2%; Score 41; DB 9; Length 10;
Best Local Similarity 85.7%; Pred. No. 0.87;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 3 EYRHYCY 9
   ||:|||||
Db 1 EYDHYCY 7

RESULT 29
US-10-530-061-853
; Sequence 853, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.033US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; PRIOR FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 853
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-853

Query Match          73.2%; Score 41; DB 9; Length 10;
Best Local Similarity 85.7%; Pred. No. 0.87;
```

Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 3 EYRYCY 9
| | | | |
Db 1 EYDHYCY 7

RESULT 30
US-10-530-061-40
; Sequence 40, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.03US02/EKS/M-M
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 40
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-40

Query Match 71.4%; Score 40; DB 9; Length 10;
Best Local Similarity 100.0%; Pred. No. 1.3;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ISEYRHY 7
| | | | |
Db 4 ISEYRHY 10

RESULT 31
US-10-530-061-54
; Sequence 54, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.03US02/EKS/M-M
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 54
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-54

Query Match 71.4%; Score 40; DB 9; Length 10;
Best Local Similarity 100.0%; Pred. No. 1.3;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ISEYRHY 7

Db 4 ISEYRHY 10
| | | | |

RESULT 32
US-10-530-061-553
; Sequence 553, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.03US02/EKS/M-M
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 553
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-553

Query Match 71.4%; Score 40; DB 9; Length 10;
Best Local Similarity 87.5%; Pred. No. 1.3;
Matches 7; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2 SEYRHYCY 9
| | | | |
Db 3 SEYRHYCY 10

RESULT 33
US-10-530-061-554
; Sequence 554, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.03US02/EKS/M-M
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 554
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-554

Query Match 71.4%; Score 40; DB 9; Length 10;
Best Local Similarity 100.0%; Pred. No. 1.3;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ISEYRHY 7
| | | | |
Db 2 ISEYRHY 8

```
RESULT 34
US-10-530-061-599
; Sequence 599, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.03US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: Patentin version 3.3
; SEQ ID NO 599
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-599

Query Match
Best Local Similarity 71.4%; Score 40; DB 9; Length 10;
Best Local Similarity 100.0%; Pred. No. 1.3;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ISEYRHY 7
DB 2 ISEYRHY 8

RESULT 35
US-10-530-061-775
; Sequence 775, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.03US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: Patentin version 3.3
; SEQ ID NO 775
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-775

Query Match
Best Local Similarity 71.4%; Score 40; DB 9; Length 10;
Best Local Similarity 100.0%; Pred. No. 1.3;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ISEYRHY 7
DB 4 ISEYRHY 10

RESULT 36
US-10-530-061-127
```

```
; Sequence 127, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.03US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: Patentin version 3.3
; SEQ ID NO 127
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-127

Query Match
Best Local Similarity 69.6%; Score 39; DB 9; Length 10;
Best Local Similarity 85.7%; Pred. No. 1.8;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 3 EYRHYCY 9
DB 1 EYRHYCY 7

RESULT 37
US-10-530-061-852
; Sequence 852, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.03US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: Patentin version 3.3
; SEQ ID NO 852
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Human papillomavirus
US-10-530-061-852

Query Match
Best Local Similarity 69.6%; Score 39; DB 9; Length 10;
Best Local Similarity 85.7%; Pred. No. 1.8;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 3 EYRHYCY 9
DB 1 EYRHYCY 7

RESULT 38
US-11-144-947-640
; Sequence 640, Application US/11144947
; Publication No. US20060084082A1
; GENERAL INFORMATION:
```

APPLICANT: Ruben et al.
TITLE OF INVENTION: 186 Human Secreted proteins
FILE REFERENCE: P2002P2C2
CURRENT APPLICATION NUMBER: US/11/144,947
CURRENT FILING DATE: 2005-06-06
PRIOR APPLICATION NUMBER: 09/882,171
PRIOR FILING DATE: 2005-06-03
PRIOR APPLICATION NUMBER: 09/809,391
PRIOR FILING DATE: 2001-03-16
PRIOR APPLICATION NUMBER: 60/190,068
PRIOR FILING DATE: 2000-03-17
PRIOR APPLICATION NUMBER: 10/164,861
PRIOR FILING DATE: 2002-06-10
PRIOR APPLICATION NUMBER: 09/149,476
PRIOR FILING DATE: 1998-09-08
PRIOR APPLICATION NUMBER: PCT/US98/04493
PRIOR FILING DATE: 1998-03-06
PRIOR APPLICATION NUMBER: 60/040,162
PRIOR FILING DATE: 1997-03-07
PRIOR APPLICATION NUMBER: 60/040,333
PRIOR FILING DATE: 1997-03-07
PRIOR APPLICATION NUMBER: 60/038,621
PRIOR FILING DATE: 1997-03-07
PRIOR APPLICATION NUMBER: 60/040,626
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 761
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 640
LENGTH: 28
TYPE: PRT
ORGANISM: Homo sapiens
US-11-144-947-640

Query Match 67.9%; Score 38; DB 11; Length 28;
Best Local Similarity 75.0%; Pred. No. 6;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 ISEYRHYC 8
||: ||||
Db 4 ISQLRHYC 11

RESULT 39

US-10-131-826A-550
Sequence 550, Application US/10131826A
Publication No. US20050245730A1
GENERAL INFORMATION:
APPLICANT: Baker, Kevin P.
APPLICANT: Beresini, Maureen
APPLICANT: DeForge, Laura
APPLICANT: Deenoyers, Luc
APPLICANT: Filvaroff, Ellen
APPLICANT: Gao, Wei-Qiang
APPLICANT: Gerritsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Gurney, Austin L.
APPLICANT: Sherwood, Steven
APPLICANT: Smith, Victoria
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Watanabe, Colin K
APPLICANT: Wood, William
APPLICANT: Zhang, Zemin
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
FILE REFERENCE: P3330R1C128
CURRENT APPLICATION NUMBER: US/10/131,826A
CURRENT FILING DATE: 2002-04-24
PRIOR APPLICATION NUMBER: 60/049911
PRIOR FILING DATE: 1997-06-18
PRIOR APPLICATION NUMBER: 60/056974

PRIOR FILING DATE: 1997-08-26
PRIOR APPLICATION NUMBER: 60/059113
PRIOR FILING DATE: 1997-09-17
PRIOR APPLICATION NUMBER: 60/059115
PRIOR FILING DATE: 1997-09-17
PRIOR APPLICATION NUMBER: 60/059117
PRIOR FILING DATE: 1997-09-17
PRIOR APPLICATION NUMBER: 60/059122
PRIOR FILING DATE: 1997-09-17
PRIOR APPLICATION NUMBER: 60/059184
PRIOR FILING DATE: 1997-09-17
PRIOR APPLICATION NUMBER: 60/059263
PRIOR FILING DATE: 1997-09-18
PRIOR APPLICATION NUMBER: 60/059352
PRIOR FILING DATE: 1997-09-19
PRIOR APPLICATION NUMBER: 60/059588
PRIOR FILING DATE: 1997-09-19
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 550
SEQ ID NO 550
LENGTH: 198
TYPE: PRT
ORGANISM: Homo Sapien
US-10-131-826A-550

Query Match 67.9%; Score 38; DB 9; Length 198;
Best Local Similarity 75.0%; Pred. No. 28;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 ISEYRHYC 8
||: ||||
Db 64 ISQLRHYC 71

RESULT 40

US-10-973-115B-550
Sequence 550, Application US/10973115B
Publication No. US20060040351A1
GENERAL INFORMATION:
APPLICANT: Baker, Kevin P.
APPLICANT: Beresini, Maureen
APPLICANT: DeForge, Laura
APPLICANT: Deenoyers, Luc
APPLICANT: Filvaroff, Ellen
APPLICANT: Gao, Wei-Qiang
APPLICANT: Gerritsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul
APPLICANT: Gurney, Austin L.
APPLICANT: Sherwood, Steven
APPLICANT: Smith, Victoria
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Watanabe, Colin K.
APPLICANT: Wood, William I.
APPLICANT: Zhang, Zemin
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC ACIDS ENCODING
FILE REFERENCE: 39870-3330R1C300C1
CURRENT APPLICATION NUMBER: US/10/973,115B
CURRENT FILING DATE: 2004-10-22
PRIOR APPLICATION NUMBER: US 10/145,747
PRIOR FILING DATE: 2002-05-14
PRIOR APPLICATION NUMBER: US 10/028,072
PRIOR FILING DATE: 2001-12-19
PRIOR APPLICATION NUMBER: PCT/US00/32678
PRIOR FILING DATE: 2000-12-01
PRIOR APPLICATION NUMBER: US 09/581,742
PRIOR FILING DATE: 2000-06-16
PRIOR APPLICATION NUMBER: PCT/US00/05746
PRIOR FILING DATE: 2000-03-02
PRIOR APPLICATION NUMBER: US 60/135,736
PRIOR FILING DATE: 1999-05-25

;; PRIOR APPLICATION NUMBER: US 60/123,090
;; PRIOR FILING DATE: 1999-03-05
;; NUMBER OF SEQ ID NOS: 550
;; SEQ ID NO 550
;; LENGTH: 198
;; TYPE: PRF
;; ORGANISM: Homo sapiens
US-10-973-115B-550

Query Match 67.9%; Score 38; DB 9; Length 198;
Best Local Similarity 75.0%; Pred. No. 28;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 ISYRHYC 8
DB 64 ISQLRHYC 71

RESULT 41
US-10-218-784-226
; Sequence 226, Application US/10218784
; Publication No. US20060074223A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Desnoyers, Luc
; APPLICANT: Gerritsen, Mary
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Smith, Victoria
; APPLICANT: Stephan, Jean-Philippe F.
; APPLICANT: Watanabe, Colin L.
; APPLICANT: Wood, William I.
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3530P1C18
; CURRENT APPLICATION NUMBER: US/10/218,784
; CURRENT FILING DATE: 2002-08-12
; PRIOR APPLICATION NUMBER: 10/119,480
; PRIOR FILING DATE: 2002-04-09
; PRIOR APPLICATION NUMBER: 60/059113
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/062287
; PRIOR FILING DATE: 1997-10-17
; PRIOR APPLICATION NUMBER: 60/063549
; PRIOR FILING DATE: 1997-10-28
; PRIOR APPLICATION NUMBER: 60/064103
; PRIOR FILING DATE: 1997-10-31
; PRIOR APPLICATION NUMBER: 60/069873
; PRIOR FILING DATE: 1997-12-17
; PRIOR APPLICATION NUMBER: 60/078910
; PRIOR FILING DATE: 1998-03-20
; PRIOR APPLICATION NUMBER: 60/079294
; PRIOR FILING DATE: 1998-03-25
; PRIOR APPLICATION NUMBER: 60/079656
; PRIOR FILING DATE: 1998-03-26
; PRIOR APPLICATION NUMBER: 60/079728
; PRIOR FILING DATE: 1998-03-27
; PRIOR APPLICATION NUMBER: 60/081819
; PRIOR FILING DATE: 1998-04-15
; PRIOR APPLICATION NUMBER: 60/081955
; PRIOR FILING DATE: 1998-04-15
; PRIOR APPLICATION NUMBER: 60/082804
; PRIOR FILING DATE: 1998-04-22
; PRIOR APPLICATION NUMBER: 60/084441
; PRIOR FILING DATE: 1998-05-06
; PRIOR APPLICATION NUMBER: 60/085323
; PRIOR FILING DATE: 1998-05-13
; PRIOR APPLICATION NUMBER: 60/085579
; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 60/086392
; PRIOR FILING DATE: 1998-05-22

;; PRIOR APPLICATION NUMBER: 60/089532
;; PRIOR FILING DATE: 1998-06-17
;; PRIOR APPLICATION NUMBER: 60/089538
;; PRIOR FILING DATE: 1998-06-17
;; PRIOR APPLICATION NUMBER: 60/089905
;; PRIOR FILING DATE: 1998-06-18
;; PRIOR APPLICATION NUMBER: 60/090472
;; PRIOR FILING DATE: 1998-06-24
;; PRIOR APPLICATION NUMBER: 60/090557
;; PRIOR FILING DATE: 1998-06-24
;; PRIOR APPLICATION NUMBER: 60/090691
;; PRIOR FILING DATE: 1998-06-25
;; PRIOR APPLICATION NUMBER: 60/090695
;; PRIOR FILING DATE: 1998-06-25
;; PRIOR APPLICATION NUMBER: 60/091982
;; PRIOR FILING DATE: 1998-07-07
;; PRIOR APPLICATION NUMBER: 60/095302
;; PRIOR FILING DATE: 1998-08-04
;; PRIOR APPLICATION NUMBER: 60/095318
;; PRIOR FILING DATE: 1998-08-04
;; PRIOR APPLICATION NUMBER: 60/095916
;; PRIOR FILING DATE: 1998-08-10
;; PRIOR APPLICATION NUMBER: 60/096146
;; PRIOR FILING DATE: 1998-08-11
;; PRIOR APPLICATION NUMBER: 60/096791
;; PRIOR FILING DATE: 1998-08-17
;; PRIOR APPLICATION NUMBER: 60/097986
;; PRIOR FILING DATE: 1998-08-26
;; PRIOR APPLICATION NUMBER: 60/098544
;; PRIOR FILING DATE: 1998-08-31
;; PRIOR APPLICATION NUMBER: 60/099596
;; PRIOR FILING DATE: 1998-09-09
;; PRIOR APPLICATION NUMBER: 60/099598
;; PRIOR FILING DATE: 1998-09-09
;; PRIOR APPLICATION NUMBER: 60/099803
;; PRIOR FILING DATE: 1998-09-10
;; PRIOR APPLICATION NUMBER: 60/099811
;; PRIOR FILING DATE: 1998-09-10
;; PRIOR APPLICATION NUMBER: 60/099812
;; PRIOR FILING DATE: 1998-09-10
;; PRIOR APPLICATION NUMBER: 60/099816
;; PRIOR FILING DATE: 1998-09-10
;; PRIOR APPLICATION NUMBER: 60/100038
;; PRIOR FILING DATE: 1998-09-11
;; PRIOR APPLICATION NUMBER: 60/100385
;; PRIOR FILING DATE: 1998-09-15
;; PRIOR APPLICATION NUMBER: 60/100390
;; PRIOR FILING DATE: 1998-09-15
;; PRIOR APPLICATION NUMBER: 60/100627
;; PRIOR FILING DATE: 1998-09-16
;; PRIOR APPLICATION NUMBER: 60/100848
;; PRIOR FILING DATE: 1998-09-18
;; PRIOR APPLICATION NUMBER: 60/100919
;; PRIOR FILING DATE: 1998-09-17
;; PRIOR APPLICATION NUMBER: 60/101477
;; PRIOR FILING DATE: 1998-09-23
;; PRIOR APPLICATION NUMBER: 60/101738
;; PRIOR FILING DATE: 1998-09-24
;; PRIOR APPLICATION NUMBER: 60/101741
;; PRIOR FILING DATE: 1998-09-24
;; PRIOR APPLICATION NUMBER: 60/101786
;; PRIOR FILING DATE: 1998-09-25
;; PRIOR APPLICATION NUMBER: 60/101916
;; PRIOR FILING DATE: 1998-09-24
;; PRIOR APPLICATION NUMBER: 60/101922
;; PRIOR FILING DATE: 1998-09-24
;; PRIOR APPLICATION NUMBER: 60/106178
;; PRIOR FILING DATE: 1998-10-28
;; PRIOR APPLICATION NUMBER: 60/106248
;; PRIOR FILING DATE: 1998-10-29
;; PRIOR APPLICATION NUMBER: 60/106464
;; PRIOR FILING DATE: 1998-10-30
;; PRIOR APPLICATION NUMBER: 60/106905

PRIOR FILING DATE: 1998-11-03
PRIOR APPLICATION NUMBER: 60/108787
PRIOR FILING DATE: 1998-11-17
PRIOR APPLICATION NUMBER: 60/108801
PRIOR FILING DATE: 1998-11-17
PRIOR APPLICATION NUMBER: 60/108849
PRIOR FILING DATE: 1998-11-18
PRIOR APPLICATION NUMBER: 60/112422
PRIOR FILING DATE: 1998-12-15
PRIOR APPLICATION NUMBER: 60/113296
PRIOR FILING DATE: 1998-12-22
PRIOR APPLICATION NUMBER: 60/113605
PRIOR FILING DATE: 1998-12-23
PRIOR APPLICATION NUMBER: 60/113621
PRIOR FILING DATE: 1998-12-23
PRIOR APPLICATION NUMBER: 60/115558
PRIOR FILING DATE: 1999-01-12
PRIOR APPLICATION NUMBER: 60/115565
PRIOR FILING DATE: 1999-01-12
PRIOR APPLICATION NUMBER: 60/115733
PRIOR FILING DATE: 1999-01-12
PRIOR APPLICATION NUMBER: 60/119549
PRIOR FILING DATE: 1999-02-10
PRIOR APPLICATION NUMBER: 60/123618
PRIOR FILING DATE: 1999-03-10
PRIOR APPLICATION NUMBER: 60/125259
PRIOR FILING DATE: 1999-03-19
PRIOR APPLICATION NUMBER: 60/125775
PRIOR FILING DATE: 1999-03-23
PRIOR APPLICATION NUMBER: 60/126773
PRIOR FILING DATE: 1999-03-29
PRIOR APPLICATION NUMBER: 60/127887
PRIOR FILING DATE: 1999-04-05
PRIOR APPLICATION NUMBER: 60/130232
PRIOR FILING DATE: 1999-04-21
PRIOR APPLICATION NUMBER: 60/131022
PRIOR FILING DATE: 1999-04-26
PRIOR APPLICATION NUMBER: 60/131270
PRIOR FILING DATE: 1999-04-27
PRIOR APPLICATION NUMBER: 60/131291
PRIOR FILING DATE: 1999-04-27
PRIOR APPLICATION NUMBER: 60/131445
PRIOR FILING DATE: 1999-04-28
PRIOR APPLICATION NUMBER: 60/134287
PRIOR FILING DATE: 1999-05-14
PRIOR APPLICATION NUMBER: 60/140650
PRIOR FILING DATE: 1999-06-22
PRIOR APPLICATION NUMBER: 60/140723
PRIOR FILING DATE: 1999-06-22
PRIOR APPLICATION NUMBER: 60/141037
PRIOR FILING DATE: 1999-06-23
PRIOR APPLICATION NUMBER: 60/144758
PRIOR FILING DATE: 1999-07-20
PRIOR APPLICATION NUMBER: 60/145698
PRIOR FILING DATE: 1999-07-26
PRIOR APPLICATION NUMBER: 60/146222
PRIOR FILING DATE: 1999-07-28
PRIOR APPLICATION NUMBER: 60/146363
PRIOR FILING DATE: 1999-08-03
PRIOR APPLICATION NUMBER: 60/149320
PRIOR FILING DATE: 1999-08-17
PRIOR APPLICATION NUMBER: 60/149638
PRIOR FILING DATE: 1999-08-17
PRIOR APPLICATION NUMBER: 60/151733
PRIOR FILING DATE: 1999-08-31
PRIOR APPLICATION NUMBER: 60/164418
PRIOR FILING DATE: 1999-11-09
PRIOR APPLICATION NUMBER: 60/166361
PRIOR FILING DATE: 1999-11-16
PRIOR APPLICATION NUMBER: 60/169445
PRIOR FILING DATE: 1999-12-07
PRIOR APPLICATION NUMBER: 60/169495
PRIOR FILING DATE: 1999-12-07

PRIOR APPLICATION NUMBER: 60/169835
Query Match 67.9%; Score 38; DB 9; Length 198;
Best Local Similarity 75.0%; Pred. No. 28;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
Cy 1 ISEYRHYC 8
Db 64 ISQLRHYC 71
RESULT 42
US-10-219-061-226
Sequence 226, Application US/10219061
Publication No. US20060074224A1
GENERAL INFORMATION:
APPLICANT: Baker, Kevin P.
APPLICANT: Desnoyers, Luc
APPLICANT: Geriltsen, Mary
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, J. Christopher
APPLICANT: Gurney, Austin L.
APPLICANT: Smith, Victoria
APPLICANT: Stephan, Jean-Philippe F.
APPLICANT: Matanabe, Colin L.
APPLICANT: Wood, William I.
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
FILE OF INVENTION: ACIDS ENCODING THE SAME
FILE REFERENCE: P3530P1C16
CURRENT APPLICATION NUMBER: US/10/219,061
PRIOR FILING DATE: 2002-08-12
PRIOR APPLICATION NUMBER: 10/119,480
PRIOR FILING DATE: 2002-04-09
PRIOR APPLICATION NUMBER: 60/059113
PRIOR FILING DATE: 1997-09-17
PRIOR APPLICATION NUMBER: 60/062287
PRIOR FILING DATE: 1997-10-17
PRIOR APPLICATION NUMBER: 60/063549
PRIOR FILING DATE: 1997-10-28
PRIOR APPLICATION NUMBER: 60/064103
PRIOR FILING DATE: 1997-10-31
PRIOR APPLICATION NUMBER: 60/069873
PRIOR FILING DATE: 1997-12-17
PRIOR APPLICATION NUMBER: 60/078910
PRIOR FILING DATE: 1998-03-20
PRIOR APPLICATION NUMBER: 60/079294
PRIOR FILING DATE: 1998-03-25
PRIOR APPLICATION NUMBER: 60/079656
PRIOR FILING DATE: 1998-03-26
PRIOR APPLICATION NUMBER: 60/079728
PRIOR FILING DATE: 1998-03-27
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 246
SEQ ID NO 226
LENGTH: 198
TYPE: PRT
ORGANISM: Homo Sapien
US-10-219-061-226
Query Match 67.9%; Score 38; DB 9; Length 198;
Best Local Similarity 75.0%; Pred. No. 28;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
Cy 1 ISEYRHYC 8
Db 64 ISQLRHYC 71
RESULT 43
US-10-219-062-226
Sequence 226, Application US/10219062
Publication No. US20060074220A1

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; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Desnoyers, Luc
; APPLICANT: Gerritsen, Mary
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Smith, Victoria
; APPLICANT: Stephan, Jean-Philippe F.
; APPLICANT: Watanabe, Colin L.
; APPLICANT: Wood, William I.
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3530PIC17
; CURRENT FILING DATE: 2002-08-12
; PRIOR APPLICATION NUMBER: 10/119,480
; PRIOR FILING DATE: 2002-04-09
; PRIOR APPLICATION NUMBER: 60/059113
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/062287
; PRIOR FILING DATE: 1997-10-17
; PRIOR APPLICATION NUMBER: 60/063549
; PRIOR FILING DATE: 1997-10-28
; PRIOR APPLICATION NUMBER: 60/064103
; PRIOR FILING DATE: 1997-10-31
; PRIOR APPLICATION NUMBER: 60/069873
; PRIOR FILING DATE: 1997-12-17
; PRIOR APPLICATION NUMBER: 60/078910
; PRIOR FILING DATE: 1998-03-20
; PRIOR APPLICATION NUMBER: 60/079284
; PRIOR FILING DATE: 1998-03-25
; PRIOR APPLICATION NUMBER: 60/079656
; PRIOR FILING DATE: 1998-03-26
; PRIOR APPLICATION NUMBER: 60/079728
; PRIOR FILING DATE: 1998-03-27
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 246
; SEQ ID NO 226
; LENGTH: 198
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-219-062-226

Query Match          67.9%; Score 38; DB 9; Length 198;
Best Local Similarity 75.0%; Pred. No. 28;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy      1 ISEYRHYC 8
      ||:||||
Db      64 ISQLRHYC 71

RESULT 44
US-10-219-064-226
; Sequence 226, Application US/10219064
; Publication No. US20060074221A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Desnoyers, Luc
; APPLICANT: Gerritsen, Mary
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Smith, Victoria
; APPLICANT: Stephan, Jean-Philippe F.
; APPLICANT: Watanabe, Colin L.
; APPLICANT: Wood, William I.
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3530PIC44
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; CURRENT APPLICATION NUMBER: US/10/219,064
; CURRENT FILING DATE: 2002-08-13
; PRIOR APPLICATION NUMBER: 10/119,480
; PRIOR FILING DATE: 2002-04-09
; PRIOR APPLICATION NUMBER: 60/059113
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/062287
; PRIOR FILING DATE: 1997-10-17
; PRIOR APPLICATION NUMBER: 60/063549
; PRIOR FILING DATE: 1997-10-28
; PRIOR APPLICATION NUMBER: 60/064103
; PRIOR FILING DATE: 1997-10-31
; PRIOR APPLICATION NUMBER: 60/069873
; PRIOR FILING DATE: 1997-12-17
; PRIOR APPLICATION NUMBER: 60/078910
; PRIOR FILING DATE: 1998-03-20
; PRIOR APPLICATION NUMBER: 60/079284
; PRIOR FILING DATE: 1998-03-25
; PRIOR APPLICATION NUMBER: 60/079656
; PRIOR FILING DATE: 1998-03-26
; PRIOR APPLICATION NUMBER: 60/079728
; PRIOR FILING DATE: 1998-03-27
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 246
; SEQ ID NO 226
; LENGTH: 198
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-219-064-226

Query Match          67.9%; Score 38; DB 9; Length 198;
Best Local Similarity 75.0%; Pred. No. 28;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy      1 ISEYRHYC 8
      ||:||||
Db      64 ISQLRHYC 71

RESULT 45
US-10-233-134-226
; Sequence 226, Application US/10233134
; Publication No. US20060073476A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Desnoyers, Luc
; APPLICANT: Gerritsen, Mary
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Smith, Victoria
; APPLICANT: Stephan, Jean-Philippe F.
; APPLICANT: Watanabe, Colin L.
; APPLICANT: Wood, William I.
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3530PIC13
; CURRENT FILING DATE: 2002-08-29
; PRIOR APPLICATION NUMBER: 10/119,480
; PRIOR FILING DATE: 2002-04-09
; PRIOR APPLICATION NUMBER: 60/059113
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/062287
; PRIOR FILING DATE: 1997-10-17
; PRIOR APPLICATION NUMBER: 60/063549
; PRIOR FILING DATE: 1997-10-28
; PRIOR APPLICATION NUMBER: 60/064103
; PRIOR FILING DATE: 1997-10-31
; PRIOR APPLICATION NUMBER: 60/069873
; PRIOR FILING DATE: 1997-12-17
; PRIOR APPLICATION NUMBER: 60/078910
```


;; PRIOR FILING DATE: 1998-03-20
;; PRIOR APPLICATION NUMBER: 60/079294
;; PRIOR FILING DATE: 1998-03-25
;; PRIOR APPLICATION NUMBER: 60/079656
;; PRIOR FILING DATE: 1998-03-26
;; PRIOR APPLICATION NUMBER: 60/079728
;; PRIOR FILING DATE: 1998-03-27
;; Remaining Prior Application data removed - See file wrapper or PALM.
;; NUMBER OF SEQ ID NOS: 246
;; SEQ ID NO 226
;; LENGTH: 198
;; TYPE: PRT
;; ORGANISM: Homo Sapien
US-10-233-134-226

Query Match 67.9%; Score 38; DB 9; Length 198;
Best Local Similarity 75.0%; Pred. No. 28;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 ISEYRHYC 8
||:||||
Db 64 ISOLRHYC 71

RESULT 46
US-10-137-873A-550
; Sequence 550, Application US/10137873A
; Publication No. US20060084138A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Beresini, Maureen
; APPLICANT: DeForge, Laura
; APPLICANT: Desnoyers, Luc
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Sherwood, Steven
; APPLICANT: Smith, Victoria
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Watanabe, Collin K
; APPLICANT: Wood, William
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3330R1C149
; CURRENT APPLICATION NUMBER: US/10/137, 873A
; CURRENT FILING DATE: 2002-04-23
; PRIOR APPLICATION NUMBER: 60/049911
; PRIOR FILING DATE: 1997-06-18
; PRIOR APPLICATION NUMBER: 60/056974
; PRIOR FILING DATE: 1997-08-26
; PRIOR APPLICATION NUMBER: 60/059113
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/059115
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/059117
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/059122
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/059184
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/059263
; PRIOR FILING DATE: 1997-09-18
; PRIOR APPLICATION NUMBER: 60/059352
; PRIOR FILING DATE: 1997-09-19
; PRIOR APPLICATION NUMBER: 60/059588
; PRIOR FILING DATE: 1997-09-19
; Remaining Prior Application data removed - See file wrapper or PALM.
; NUMBER OF SEQ ID NOS: 550

;; SEQ ID NO 550
;; LENGTH: 198
;; TYPE: PRT
;; ORGANISM: Homo Sapien
US-10-137-873A-550

Query Match 67.9%; Score 38; DB 9; Length 198;
Best Local Similarity 75.0%; Pred. No. 28;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 ISEYRHYC 8
||:||||
Db 64 ISOLRHYC 71

RESULT 47
US-10-152-370-550
; Sequence 550, Application US/10152370
; Publication No. US20060084139A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Beresini, Maureen
; APPLICANT: DeForge, Laura
; APPLICANT: Desnoyers, Luc
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Sherwood, Steven
; APPLICANT: Smith, Victoria
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Watanabe, Collin K
; APPLICANT: Wood, William
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3330R1C407
; CURRENT APPLICATION NUMBER: US/10/152,370
; CURRENT FILING DATE: 2002-05-21
; Prior Application removed - See file wrapper or Palm
; NUMBER OF SEQ ID NOS: 550
; SEQ ID NO 550
; LENGTH: 198
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-152-370-550

Query Match 67.9%; Score 38; DB 9; Length 198;
Best Local Similarity 75.0%; Pred. No. 28;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 ISEYRHYC 8
||:||||
Db 64 ISOLRHYC 71

RESULT 48
US-11-290-153-550
; Sequence 550, Application US/11290153
; Publication No. US20060073568A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Beresini, Maureen
; APPLICANT: DeForge, Laura
; APPLICANT: Desnoyers, Luc
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.

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; APPLICANT: Gurney, Austin L.
; APPLICANT: Sherwood, Steven
; APPLICANT: Smith, Victoria A.
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Watanabe, Colin K
; APPLICANT: Wood, William
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; TITLE OF INVENTION: ACIDS ENCODING THE SAME
; FILE REFERENCE: P3330R1C321
; CURRENT APPLICATION NUMBER: US/11/290,153
; PRIOR FILING DATE: 2005-11-30
; PRIOR APPLICATION NUMBER: US/10/146,728
; PRIOR FILING DATE: 2002-05-15
; PRIOR APPLICATION NUMBER: 60/049911
; PRIOR FILING DATE: 1997-06-18
; PRIOR APPLICATION NUMBER: 60/056974
; PRIOR FILING DATE: 1997-08-26
; PRIOR APPLICATION NUMBER: 60/059113
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/059115
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/059117
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/059122
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/059184
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/059263
; PRIOR FILING DATE: 1997-09-18
; PRIOR APPLICATION NUMBER: 60/059352
; PRIOR FILING DATE: 1997-09-19
; Remaining prior application data removed - See file wrapper or PALM.
; NUMBER OF SEQ ID NOS: 550
; SEQ ID NO 550
; LENGTH: 198
; TYPE: PRT
; ORGANISM: Homo Sapien
; US-11-290-153-550

Query Match          67.9%; Score 38; DB 11; Length 198;
Best Local Similarity 75.0%; Pred. No. 28;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 ISEYRHYC 8
Db 64 ISQLRHYC 71

RESULT 49
US-10-530-061-99
; Sequence 99, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.033US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 99
; LENGTH: 9
; TYPE: PRT
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; ORGANISM: Human papillomavirus
; US-10-530-061-99

Query Match          64.3%; Score 36; DB 9; Length 9;
Best Local Similarity 85.7%; Pred. No. 1.9e+05;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 3 EYRHYCY 9
Db 1 EYRHYCY 7

RESULT 50
US-10-530-061-832
; Sequence 832, Application US/10530061
; Publication No. US20060079453A1
; GENERAL INFORMATION:
; APPLICANT: SIDNEY, JOHN
; APPLICANT: SOUTHWOOD, SCOTT
; APPLICANT: SETTE, ALESSANDRO
; TITLE OF INVENTION: HLA BINDING PEPTIDES AND THEIR USES
; FILE REFERENCE: 2060.033US02/EKS/M-M
; CURRENT APPLICATION NUMBER: US/10/530,061
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31308
; PRIOR FILING DATE: 2003-10-03
; PRIOR APPLICATION NUMBER: 60/416,207
; PRIOR FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/417,269
; PRIOR FILING DATE: 2002-10-08
; NUMBER OF SEQ ID NOS: 2503
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 832
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Human papillomavirus
; US-10-530-061-832

Query Match          64.3%; Score 36; DB 9; Length 9;
Best Local Similarity 85.7%; Pred. No. 1.9e+05;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 3 EYRHYCY 9
Db 1 EYRHYCY 7
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